

APPENDIX 4.1:
Staff Handbooks

**UNDERGRADUATE PROGRAM IN COMPUTER SCIENCE
DEPARTMENT OF COMPUTER SCIENCE AND ELECTRONICS**

STAFF HANDBOOKS

**FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS GADJAH MADA**

2022

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Name	Abdul Ro'uf, Drs., M.Ikom
Position	Assistant Professor
Academic career	Bachelor's degree (Physics), Universitas Gadjah Mada, Indonesia, 1985. Master's degree (Computer Science), Universitas Indonesia, Indonesia, 1990.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. 40 khz Ultrasonic Censor Characterization from hc-sr04 module for Faulty Detection of Concrete,2017 2. 40khz 35W piezoelectric transducer characterization for material evaluation system,2018 3. Detection of defects in concrete using piezoelectric transducers,2019 4. Utilization of a piezoelectric transducer to determine the location of defects in concrete using the attenuation method.,2020 5. Utilization of a piezoelectric transducer to determine the width of defects in concrete using the attenuation method,2021 6. Selection of the right piezoelectric transducer frequency for use in concrete flaw detection equipment,2022
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Ivan Dwicahyo Pratomo, Abdul Rouf, Tri Wahyu Supardi, "Pengukuran Jarak Lubang Pada Benda Padat Menggunakan Sensor Ultrasonik." IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) Vol.6, No.1, April 2016, pp. 81~92 2. Setyo Swasoko, Abdul Rouf. "Rancang Bangun Pembangkit Pulsa Tiga Sensor Ultrasonik Untuk Pendeteksi Kecacatan Beton Berbasis Mikrokontroler", IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) Vol.7, No.2, Oktober 2017, pp.197~208 3. Amanda Purwanto, Abdul Ro'uf. "Sistem Pengukuran Modulus Elastisitas Beton Menggunakan Metode Ultrasonic Pulse Velocity", IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) Vol.8, No.1, April 2018, pp. 25~36 4. Hidayatullah Abdi Robhani , Abdul Rouf. "Perancangan Flowmeter Ultrasonik untuk Mengukur Debit Air Pada Pipa", IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) Vol.8, No.1, April 2018, pp. 83~94 5. Rangga Pujiyanto Wijaya, Abdul Rouf, Tri Wahyu Supardi, "Klasifikasi Tingkat Kemurnian Bahan Bakar Minyak Berdasarkan Cepat Rambat Gelombang Menggunakan Algoritma K-Nearest Neighbor", IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) Vol.9, No.2, Oktober 2019, pp.161~172 6. Anggia Eta Rizkiasari, Abdul Rouf. "Analisis Hubungan Kecepatan Gelombang Dengan Kuat Tekan Beton Menggunakan Metode UPV", IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) Vol.10, No.1, April 2020, pp. 11~20
Activities in specialist bodies over the last 5 years	Member IndoCEISS (Indonesian Computer, Electronics and Instrumentation Support Society), 2018 - recent

Name	Afiahayati, M. Cs, Ph.D
Position	Assistant Professor
Academic career	Bachelor's degree (computer science), Universitas Gadjah Mada, Indonesia, 2008. Master's degree (computer science), Universitas Gadjah Mada, Indonesia, 2010. Doctoral degree (Biosciences and Informatics), Keio University, Japan, 2015.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Speech Recognition of Dysarthric People Using Convolutional Neural Network, 2017 2. Comet Assay Analysis using Machine Learning Methods based on Images for DNA Damage Detection, 2018 3. Modelling Dynamics of Maritime Network Evolution in Indonesia using Vessel's Automatic Identification Systems (AIS) Data, 2018 4. Transfer Learning Technique on Deep Convolutional Generative Adversarial Network (DCGAN) for Image Generation, 2019 5. Sentiment Analysis based on Lexicon using Machine Learning Methods (Case Study: Students' Comments on Teacher Performance Evaluation System SMA Negeri 1 Purwokerto), 2019 6. Prediction of Protein Secondary Structure using Hybrid CNN 1 D and SVM, 2020 7. Fuzzy C-Means as an Indexing Method on Case Based Reasoning for the Diagnosis of Diabetes Mellitus, 2020 8. Prediction of COVID-19 Cases using Artificial Intelligence, 2020 9. Convolutional Neural Network for Speech Recognition of Elevator Users, 2021 10. Adaptive Neuro Fuzzy Inference System untuk Memprediksi Lonjakan Harga Barang Kebutuhan Pokok 11. Adaptive Neuro Fuzzy Inference System to Predict Basic Necessities Price Increase, 2021 12. The Development of Benchmark Dataset and Model for Authorship Attribution in Indonesian Language, 2021
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. A Samatha, Afiahayati, F Hamsyah, Clustering indonesian patients with personality disorders using fuzzy C-means, ICIC Express Letter Part B : Application 12 (11), 2021 2. H Dyoniputri, Afiahayati, A Hybrid Convolutional Neural Network and Support Vector Machine for Dysarthria Speech Classification, International Journal of Innovative Computing, Information and Control 17(1), 2021 3. VM Sutanto, ZI Sukma, Afiahayati, Predicting Secondary Structure of Protein Using Hybrid of Convolutional Neural Network and Support Vector Machine, International Journal of Intelligent Engineering and Systems 14(1), 2021 4. Y T Hafiyan, Afiahayati, E Anarossi, V M Sutanto, J Triyanto, Y Sakakibara, A hybrid convolutional neural network-extreme learning

	<p>machine with augmented dataset for DNA damage classification using comet assay from buccal mucosa sample, International Journal of Innovative Computing, Information and Control 17(4), 2021</p> <ol style="list-style-type: none"> 5. H R Yulianto, Afiahayati, Fighting COVID-19: Convolutional Neural Network for Elevator User's Speech Classification in Bahasa Indonesia, Procedia Computer Science 189:84-91, 2021 6. Achmad Yohni Wahyu Finansyah, FNU Afiahayati, Vincent Michael Sutanto, Performance Comparison of Similarity Measure Algorithm as Data Preprocessing Stage: Text Normalization in Bahasa, Scientific Journal of Informatics, Vol. 9, Issue 1, pp. 1-7, 2022 7. Sutikno, A Harjoko, Afiahayati, Fusion of BIFFOA and Adaptive Two-Phase Mutation for Helmetless Motorcyclist Detection, International Journal of Advanced Computer Science and Applications, Vol. 13, Issue 1, 2022 8. Gunadi, Hendra Wibawa, Mohamad Saifudin Hakim, Marcellus, Ika Trisnawati, Riat El Khair, Rina Triasih, Irene, Afiahayati, Kristy Iskandar, Siswanto, Nungki Anggorowati, Edwin Widyanto Daniwijaya, Endah Supriyati, Dwi Aris Agung Nugrahaningsih, Eko Budiono, Heni Retnowulan, Yunika Puspawati, Ira Puspitarani, Osman Sianipar, Dwiki Afandy, Susan Simanjaya, William Widiatjjarso, Dyah Ayu Puspitarani, Fadil Fahri, Untung Riawan, Aditya Rifqi Fauzi, Alvin Santoso Kalim, Nur Rahmi Ananda, Amalia Setyati, Dwikisworo Setyowireni, Ida Safitri Laksanawati, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Molecular epidemiology of SARS-CoV-2 isolated from COVID-19 family clusters, BMC Medical Genomics, Vol. 14, Issue 1, pp. 1-14, 2021 9. Gunadi, Mohamad Saifudin Hakim, Hendra Wibawa, Marcellus, Ika Trisnawati, Endah Supriyati, Afiahayati, Riat El Khair, Kristy Iskandar, Siswanto, Irene, Nungki Anggorowati, Edwin Widyanto Daniwijaya, Dwi Aris Agung Nugrahaningsih, Yunika Puspawati, Susan Simanjaya, Dyah Ayu Puspitarani, Hana Fauzyyah Hanifin, Alvina Alexandra Setiawan, Irene Tania, Cita Shafira Amalia, I. Putu Aditio Artayasa, Haries Rachman, Herdiyanto Mulyawan, Nur Rahmi Ananda, Eggi Arguni, Titik Nuryastuti & Tri Wibawa, Association between prognostic factors and the outcomes of patients infected with SARS-CoV-2 harboring multiple spike protein mutations, Scientific Reports, Vol. 11, Issue 1, pp. 1-24, 2021 10. Mohamad Raychan Abdul Rosyid, Afiahayati, Infection Disease Classification in Indonesian Language using Machine Learning, International Conference on Software Engineering & Computer Systems and 4th International Conference on Computational Science and Information Management (ICSECS-ICOCSIM), pp. 1-5, 2021 11. Digdo Sudigyo, Gisti Rahmawati, Dicka W. Setiasari, Risky H. Poluan, Tjeng Wawan Cenggoro, Arif Budiarto, Alam Ahmad Hidayat, Sri R. Indrasari, Afiahayati, Sofia M. Haryana, and Bens Pardamean, Bioinformatics Pathway Analysis Pipeline for NGS Transcriptome Profile Data on Nasopharyngeal Carcinoma, IOP Conference Series: Earth and Environmental Science, Vol. 794, Issue 1, pp. 012115, 2021 12. R Widyati, A Ashari, Afiahayati, A review of using data mining and machine learning for predicting drug loading modeling in solid lipid nanoparticles containing curcumin, Journal of Physics: Conference Series, Vol. 1918, Issue 4, pp. 042015, 2021 13. Gunadi, Mohamad Saifudin Hakim, Hendra Wibawa, Marcellus, Vivi Setiawaty, Slamet, Ika Trisnawati, Endah Supriyati, Riat El Khair,
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	<p>Kristy Iskandar, Afiahayati, Siswanto, Irene, Nungki Anggorowati, Edwin Widyanto Daniwijaya, Dwi Aris Agung Nugrahaningsih, Yunika Puspawati, Dyah Ayu Puspitarani, Irene Tania, Khanza Adzkia Vujira, Muhammad Buston Ardlyamustaqim, Gita Christy Gabriela, Laudria Stella Eryvinka, Bunga Citta Nirmala, Esensi Tarian Geometri, Abirafdi Amajida Darutama, Anisa Adityarini Kuswandani, Lestari, Sri Handayani Irianingsih, Siti Khoiriyah, Ina Lestari, Nur Rahmi Ananda, Eggi Arguni, Titik Nuryastuti, and Tri Wibawa, Is the infection of the SARS-CoV-2 Delta variant associated with the outcomes of COVID-19 patients?, <i>Frontiers in medicine</i>, Vol. 8, 2021</p> <p>14. Gunadi, Hendra Wibawa, Marcellus, Mohamad Saifudin Hakim, Edwin Widyanto Daniwijaya, Ludhang Pradipta Rizki, Endah Supriyati, Dwi Aris Agung Nugrahaningsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Alvin Santoso Kalim, Dyah Ayu Puspitarani, Kemala Athollah, Eggi Arguni, Titik Nuryastuti, Tri Wibawa, Full-length genome characterization and phylogenetic analysis of SARS-CoV-2 virus strains from Yogyakarta and Central Java, <i>Indonesia, PeerJ</i>, Vol. 8, pp. e10575, 2020</p> <p>15. Risky Hiskia Poluan, Digdo Sudigyo, Gisti Rahmawati, Dicka Wahyu Setiasari, Salsabila Luthfi Sesotyosari, Tirta Wardana, Indwiani Astuti, Didik Setyo Herianto, Sagung Rai Indrasari, Cita Herawati, Afiahayati, and Sofia Mubarika Haryana, Transcriptome Related to Avoiding Immune Destruction in Nasopharyngeal Cancer in Indonesian Patients Using Next-Generation Sequencing, <i>Asian Pacific Journal of Cancer Prevention: APJCP</i>, Vol. 21, Issue 9, pp. 2593, 2020</p> <p>16. Digdo Sudigyo, Gisti Rahmawati, Dicka Wahyu Setiasari, Risky Hiskia Poluan, Salsabila Lutf Sesotyosari, Tirta Wardana, Cita Herawati, Didik Setyo Heriyanto, Sagung Rai Indrasari, Afiahayati, Indwiani Astuti, and Sofa Mubarika Haryana, Transcriptome Profile of Next Generation Sequence Data Related to Inflammation on Nasopharyngeal Carcinoma Cases in Indonesia, <i>Asian Pacific Journal of Cancer Prevention: APJCP</i>, Vol. 21, Issue 9, pp. 2763, 2020</p> <p>17. Dicka Wahyu Setiasari, Gisti Rahmawati, Digdo Sudigyo, Risky Hiskia Poluan, Salsabila Lutfi Sesotyosari, Tirta Wardana, Sagung Rai Indrasari, Cita Herawati, Didik Setyo Heriyanto, Indwiani Astuti, Afiahayati, and Sofia Mubarika Haryana, Transcriptome Profile of Next-Generation Sequencing Data Relate to Proliferation Aberration of Nasopharyngeal Carcinoma Patients in Indonesia, <i>Asian Pacific Journal of Cancer Prevention: APJCP</i>, Vol. 21, Issue 9, pp. 2585, 2020</p> <p>18. Sutikno, Afiahayati, Agus Harjoko, Detection on head of motorcyclist without helmet: A review, <i>ICIC Express Letters</i>, Vol. 14, Issue 6, pp. 605-612, 2020</p> <p>19. Siti Subandiyah, Ruth Feti Rahayuniati, Sedyo Hartono, Susanto Somowiyarjo, Afiahayati, Alan Soffana, RNA-seq data of banana bunchy top virus (BBTV) viruliferous and non-viruliferous banana aphid (<i>Pentalonia nigronervosa</i>), <i>Data in Brief</i>, Vol 28, pp. 104860, 2020</p> <p>20. Gunadi, Hendra Wibawa, Marcellus, Mohamad Saifudin Hakim, Edwin Widyanto Daniwijaya, Ludhang Pradipta Rizki, Endah Supriyati, Dwi Aris Agung Nugrahaningsih, Afiahayati, Siswanto, Kristy Iskandar, Nungki Anggorowati, Alvin Santoso Kalim, Dyah Ayu Puspitarani, Kemala Athollah, Eggi Arguni, Titik Nuryastuti, and Tri Wibawa, Full-length genome characterization and phylogenetic analysis of</p>
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	<p>SARS-CoV-2 virus strains from Yogyakarta and Central Java, Indonesia, PeerJ, Vol. 8, 2020</p> <p>21. E Anarossi, Afiahayati, RD Yanuarieska, FU Nuha, S Mulyana, Comet Assay Classification for Buccal Mucosa's DNA Damage Measurement with Super Tiny Dataset Using Transfer Learning, Intelligent Information and Database Sys-470 tems: Recent Developments Studies in Computational Intelligence, Vol. 830, pp. 279-289, 2020</p> <p>22. Dwiastuti Meisyarah, Afiahayati, Speech recognition for people with dysarthria using convolutional neural network, ICIC Express Letters Part B: Applications, Vol. 10, Issue 9, pp. 849-858, 2019</p> <p>23. Afiahayati, Edgar Anarossi, Ryna Dwi Yanuarieska, Fajar Ulin Nuha & Sri Mulyana, Comet Assay Classification for Buccal Mucosa's DNA Damage Measurement with Super Tiny Dataset Using Transfer Learning, Asian Conference on Intelligent Information and Database Systems, pp. 279-289, 2019</p> <p>24. Edgar Anarossi Afiahayati, Ryna Dwi Yanuarieska, Fajar Ulin Nuha, Sri Mulyana, Comet assay classification for Buccal Mucosa's DNA damage measurement with super tiny dataset using transfer, Intell. Inf. Database Syst. Rec. Dev, Vol. 830, pp. 279, 2019</p> <p>25. Fathurrochman Habibie; Afiahayati; Guntur Budi Herwanto; Sri Hartati; Aufaclav Zatu Kusuma Frisky, A Parallel ClustalW Algorithm on Multi-Raspberry Pis for Multiple Sequence Alignment, 1st International Conference on Bioinformatics, Biotechnology, and Biomedical Engineering-Bioinformatics and Biomedical Engineering, pp. 1-6, 2018</p> <p>26. Jason Kurniawana, Sensa G.S. Syahraa, Chandra K. Dewab, Afiahayati, Traffic congestion detection: learning from CCTV monitoring images using convolutional neural network, Procedia computer science, Vol. 144, pp. 291-297, 2018</p> <p>27. Fajar Ulin Nuha, Afiahayati, Training dataset reduction on generative adversarial network, Procedia computer science, Vol. 144, pp. 133-139, 2018</p> <p>28. Chandra Kusuma Dewa, Afiahayati, Suitable CNN weight initialization and activation function for Javanese vowels classification, Procedia computer science, Vol. 144, pp. 124-132, 2018</p> <p>29. Imam Budi Santoso, Chandra Kusuma Dewa, Afiahayati, The Implementation of Vector Space Model for Infectious Disease Diagnosis System Based on Pathophysiology Science, Advanced Science Letters, Vol. 24, Issue 1, pp. 682-685, 2018</p> <p>30. Chandra Kusuma Dewa, Amanda Lailatul Fadhillah, A Afiahayati, Convolutional neural networks for handwritten Javanese character recognition, IJCCS (Indonesian Journal of Computing and Cybernetics Systems), Vol. 12, Issue 1, pp. 83-94, 2018</p> <p>31. Muhammad Ihsan, Reza Pulungan, A Afiahayati, Evaluating Library Services Quality Using GDSS-AHP, LibQual and IPA, IJCCS (Indonesian Journal of Computing and Cybernetics Systems), Vol. 12, Issue 1, pp. 95-106, 2018</p> <p>32. Binti Solihah, Edi Winarko, Sri Hartati, Moh Edi Wibowo, Afiahayati, A systematic review: B-cell conformational epitope prediction from epitope characteristics view, Science and Technology-Computer (ICST), 2017 3rd International Conference on, pp. 93-98, 2017</p> <p>33. Rian Adam Rajagede, Chandra Kusuma Dewa, Afiahayati, Recognizing Arabic letter utterance using convolutional neural network, Software Engineering, Artificial Intelligence, Networking and</p>
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	Parallel/Distributed Computing (SNPD), 2017 18th IEEE/ACIS International Conference on, pp. 181-186, 2017
Activities in specialist bodies over the last 5 years	None

Name	Agfianto Eko Putra, Dr., M.Si.
Position	Assistant Professor
Academic career	Bachelor's degree (Physics), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia, 1992 Master's degree (Physics), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia, 1998 Doctoral degree (Physics/Applied Sciences) Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia, 2010
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Implementation of Modular Arithmetic on FPGA Using ALDMAS Algorithm, 2021, Rp. 15.000.000,00 2. Initialization of Payment Cards into Application-based NFC Ecosystem to Support Mobile Payment, 2021, Rp. 20.000.000,00 3. Design of the Telemetry, Tracking, and Command (TTC) Subsystem of the UGMSat-1 Nano Cubesat Satellite, 2020, Rp. 15.000.000,00 4. Optimization and Implementation of High Level Synthesis (HLS) Backpropagation Neural Network Algorithm on Field Programmable Gate Array (FPGA) SoC, 2020, Rp. 20.000.000,00 5. Improvement and Standardization of Information Systems, Anunciators and Control of PPTI's RPM (Radiation Portal Monitoring), 2019, Rp. 330.000.000,00 6. Design and construction of the Electrical Power System (EPS) Subsystem of the UGMSat-1 Satellite Nano Cubesat, 2019, Rp. 15.000.000,00 7. High Level Synthesis (HLS) Backpropagation Neural Network Algorithm on Field Programmable Gate Array (FPGA) SoC, 2019, Rp. 20.000.000,00 8. Quadrotor Control System for Flying and Following Smartphones in motion, 2017, Rp. 15.000.000,00
Industry collaborations over the last 5 years	Radiation Portal Monitor Prototype, cooperation with BATAN, LEN and BAPETEN, since 2017
Patents and proprietary rights	None
Important publications over the last 5 years	<p>Selected recent publications (2017-2021) from a total of approx. 32</p> <ol style="list-style-type: none"> 1. Putra, A.E., Sumbada, B.A.A., and Nurbaqin, A., 2017, Satellite Tracking Control System for UGM Ground Station based on TLE Calculation, Proceeding of IEEE Communication, Network and Satellites (COMNETSAT) 2016 - (https://doi.org/10.1109/comnetsat.2016.7907423);

	<ol style="list-style-type: none"> 2. Hardjianto, M., Istiyanto, J.E., Subanar and Putra, A.E., 2017, Fall Detection in Humans Using Threshold Method Based On Smartphone Accelerometer Data, International Journal of Advanced Studies in Computer Science and Engineering, IJASCSE volume 6 issue 10 3. Putra, A.E., Atmaji, C., and Ghaleb, F., 2018, EEG-Based Emotion Classification Using Wavelet Decomposition and K-Nearest Neighbor, 2018 4th International Conference on Science and Technology (ICST) - (https://doi.org/10.1109/icstc.2018.8528652). 4. Putra, A.E., Suryanto, W., and Sulistiyana A.N., 2018, Analysis of 2006 Merapi Eruption Data Based on Continous Wavelet Transform, Wavelet Decomposition and Correlation, International Journal of Advanced Research in Science, Engineering and Technology, Vol. 5, Issue 12, December 2018 5. N. Afianah, A. E. Putra and A. Dharmawan, "High-Level Synthesize of Backpropagation Artificial Neural Network Algorithm on the FPGA," 2019 5th International Conference on Science and Technology (ICST), Yogyakarta, Indonesia, 2019, pp. 1-5, doi: 10.1109/ICST47872.2019.9166209 6. Hidayat, S., Ashari, A., and Putra, A.E., 2019, Depth Limitation and Splitting Criteria Optimization on Random Forest for Efficient Human Activity Classification, International Journal of Advanced Computer Science and Applications(IJACSA), 10(6), 2019 (http://dx.doi.org/10.14569/IJACSA.2019.0100658) 7. Raharjo, S., Wardoyo, R., Putra, A.E., 2020, Detecting proper nouns in the Indonesian-language translation of the Quran using a guided method, Journal of King Saud University - Computer and Information Sciences (https://doi.org/10.1016/j.jksuci.2018.06.009). 8. E. H. Riyadi, T. K. Priyambodo and A. E. Putra, "Real-time Testing on Improved Data Transmission Security in the Industrial Control System," 2020 3rd International Seminar on Research of Information Technology and Intelligent Systems (ISRITI), Yogyakarta, Indonesia, 2020, pp. 129-134, [http://doi.org/10.1109/ISRITI51436.2020.9315339]. 9. Riyadi EH, Putra AE, Priyambodo TK. 2021. "Improvement of nuclear facilities DNP3 protocol data transmission security using super encryption BRC4 in SCADA systems". PeerJ Computer Science 7:e727 - https://doi.org/10.7717/peerj-cs.727 - Q1 10. A. A. Aziz, A. E. Putra, D. I. Kim and K. W. Choi, "Drone-Based Sensor Information Gathering System with Beam-Rotation Forward-Scattering Communications and Wireless Power Transfer," in IEEE Internet of Things Journal, doi: 10.1109/JIOT.2021.3128532.
Activities in specialist bodies over the last 5 years	Organisation: APTIKOM DIY, as Chairman, Period 2019-2022

Name	Agus Harjoko, Ph.D.
Position	Associate Professor
Academic career	Bachelor's degree (Electronic and Instrumentation), Universitas Gadjah Mada, Indonesia, 1986. Master's degree (Computer Science), University of New Brunswick, Canada, 1990.

	Doctoral degree (Computer Science), University of New Brunswick, Canada ,1996
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Deep Learning Techniques for Runaway Segmentation (joint research with UiTM, Malaysia), 2022 2. Development of Prototype of Integrated Sensors for Tea Quality Detection (INSTeaD) (in collaboration with the faculty of Agricultural Technology and PT Pagilaran), 2022 3. The development of Adaptive traffic light controller (in collaboration with PT PAS), 2022 4. Semantic Annotation on Temple Relief Data Using Depth Feature: Data preparation and Review (Joint research with TUWien, Austria), 2021 5. Fusarium early detection (in collaboration with PT GGP),,2021 6. Implementation of Intelligent Traffic Monitoring Systems (ITMS) using the Smart Video Sensor, 2020 7. Development and Implementation of Post harvest Tobacco leaf Classification System at PTPN X (in collaboration with PTPN X), 2017-2019
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1. PT. Pagilaran (Tea characterization), 2022 2. PT. Pandu Aman Sentosa (Adaptive Traffic controller modeling), 2021-2022 3. PT. Great Giant Pineapple (Fusarium early detection), 2021 - 2022 4. BMKG (Landslide modelling and visualization) 5. PTPN X (Tobacco leaf classification), 2013-2019
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Pengembangan dan Implementasi Sistem Pengklasifikasi Daun Tembakau Pasca Panen pada PTPN X 2. Alat Akuisisi Data Daun Tembakau 3. Metode Klasifikasi Daun Tembakau Kering Pasca Panen Berdasar Tangga Warna yang Dapat Dilatih Ulang
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Fusion of BIFFOA and Adaptive Two-Phase Mutation for Helmetless Motorcyclist Detection, International Journal of Advanced Computer Science and Applications, vol.13(1), 2022 2. Improving Detection Performance of Helmetless Motorcyclists Using the Combination of HOG, HOP, and LDB Descriptors, International Journal of Intelligent Engineering and Systems, Vol.15, No.1, 2022 3. An evaluation of sentence selection methods on the different phone-sized units for constructing Indonesian speech corpus, International Journal of Speech Technology 23 (1), 141-147 4. Wrist detection based on a minimum bounding box and geometric features, Journal of King Saud University-Computer and Information Sciences, Vol. 32 (2), pp.208-215 5. Indonesian traffic sign detection based on Haar-PHOG features and SVM classification, INTERNATIONAL JOURNAL ON SMART SENSING AND INTELLIGENT SYSTEMS, Vol. 13 (1), pp.1-15 (2020) 6. Morphological, Texture, and Color Feature Analysis for Erythrocyte Classification in Thalassemia Cases, IEEE Access, Vol.8 No.1, 2020, pp.69849-69860

	<ol style="list-style-type: none"> Robust License Plate Detection in Complex Scene using MSER Dominant Vertical Sobel, IAENG International Journal of Computer Science, Vol.47 No.2, June 2020, pp.214-222 Image Processing Approach for Grading Tobacco Leaf Based on Color and Quality, International Journal on Smart Sensing and Intelligent Systems, Vol.12 No.1, 2019, pp.1-10 Automated Detection of Retinal Nerve Fiber Layer by Texture-Based Analysis for Glaucoma Evaluation, Healthcare Informatics Research, Vol.24 No.4, Oct 2018, pp.335-345 Automatic detection of peripapillary atrophy in retinal fundus images using statistical features, Biomedical Signal Processing and Control, Vol.45 No.0, August 2018 pp.151-159
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> Indonesian Computer, Electronics, and Instrumentation Support Society, Dept. of Research and Publication, 2017-2021, 2021-2025 IEEE Computer Society, 2017-now International Association of Engineers, 2017-now

Name	Agus Sihabuddin, S.Si., M.Kom., Dr.
Position	Assistant Professor
Academic career	<p>Bachelor's degree (computer science), Universitas Gadjah Mada, Indonesia, 1999.</p> <p>Master's degree (computer science), Universitas Gadjah Mada, Indonesia, 2004.</p> <p>Doctoral degree (computer science), Universitas Gadjah Mada, Indonesia, 2016.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> Rupiah Exchange Rate Forecasting Model with Fuzzy Time Series Markov Chain, 2020 Nesterov Adaptive Moment Estimation on Deep Belief Network on USD-Rupiah Forecast, 2019 Long Short Term Memory And Word2vec Feature Extraction Approach For Hate Speech Analysis, 2019 Levenberg-Marquardt Forecasting Model on Deep Belief Network Case Study Forecasting Rupiah Exchange Rate, 2018 Long Short-Term Memory And Decoupled Extended Kalman Filter for Forecasting Currency Exchange Rates, 2018
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> Astra Digital Aurora Project 2019-2021 Research Project: FT Trading UGM-Six Capital Singapore 2017
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> Adaptive Moment Estimation On Deep Belief Network For Rupiah Currency Forecasting, AS Prabowo, A Sihabuddin, A SN IJCCS (Indonesian Journal of Computing and Cybernetics Systems) 13 (1), 31-42, 2019 An Empirical Comparative Forecast Accuracy of Exponential Smoothing and Nonlinear Autoregressive Models on Six Major Rates, Agus

	<p>Sihabuddin, Dedi Rosadi, Sri Utami International Journal of Computer Science and Information Security (IJCSIS), 15(1), 2017</p> <ol style="list-style-type: none"> TOPSIS and SLR methods on the Decision Support System for Selection the Management Strategies of Funeral Land; YEB Mawartika, A SN2, A Sihabuddin IJCCS (Indonesian Journal of Computing and Cybernetics Systems) 13 (2), 167-176, 2019 Extended Kalman Filter In Recurrent Neural Network: USDIDR Forecasting Case Study; MA Hazazi, A Sihabuddin IJCCS (Indonesian Journal of Computing and Cybernetics Systems) 13 (3), 293-300, 2019 Improved C4.5 algorithm using the L'hospital rule and pruning on the recommendation system; Tentua, M.N., Sihabuddin, A. International Journal of Scientific and Technology Research (Q3), 8(11), pp. 1388-1392, 2019 An Extreme Learning Machine Model Approach On Airbnb Base Price Prediction International Journal of Advanced Computer Science and Applications(IJACSA) (Q4) Volume 11 Issue 11, 2020. Evaluating The Impact Of Multiple Leading Indicator In Forecasting Next Day Stock Price With Lstm, Journal of Theoretical and Applied Information Technology (Q3) 31st January 2021 -- Vol. 99. No. 02 --2021 A Modified Of Tam And Ttf Integration To Analyze The Effect Of Erp Implementation On Employee Performance Journal of Theoretical and Applied Information Technology (Q3) Accepted, and will be published April 2021 -- Vol. . No. -- 2021 An Absolute Differences K-Means Clustering Approach on Determining Intervals to Optimize Fuzzy Time Series Markov Chain Model International Journal of Intelligent Engineering and Systems (Q3), 15(1), 2022
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> APTIKOM (Member) IndoCEISS (Member)

Name	Ahmad Ashari, M.Ikom., Dr.-techn
Position	Associate Professor
Academic career	<p>Bachelor's degree (Electronic and Instrumentation), Universitas Gadjah Mada, Indonesia,</p> <p>Master's degree (Computer Science), Universitas Indonesia, Indonesia, 1992.</p> <p>Doctoral degree (Informatics), Vienna University of Technology, Austria, 2001.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> Mitigation of Flood from Air based on Image Processing Technology using Drone, PTUPT, 2018 Mitigation of Flood from Air based on Image Processing Technology using Drone, PTUPT, 2019

	<ol style="list-style-type: none"> 3. The Integration of Association Rules and Ontology on Information Retrieval, PDD, 2019 4. Mitigation of Flood from Air based on Image Processing Technology using Drone, PTUPT, 2020 5. Mitigasi Bencana Banjir dari Udara Berbasis Teknologi Pengolahan Citra menggunakan Pesawat Tanpa Awak, PTUPT 2020 6. Learning Path Recommendation based on Revised Bloom's Taxonomy and Ontology using HDPSO, PDD, 2020 7. A Transformation of SysML Requirements Diagram into OWL Ontologies, RTA, 2020 8. Mitigation of Flood using Intelligent-based Decision Support Systems on IoT, PMDSU, 2020 9. Prediction of Personality based on Demographics data on a Recommender System, RTA, 2021 10. Mitigation of Flood using Intelligent-based Decision Support Systems on IoT, PMDSU, 2021
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. S Soijoyo, A Ashari, "Analysis of Zigbee Data Transmission on Wireless Sensor Network Topology", International Journal of Advanced Computer Science and Applications, Vol. 8, No. 9, page 145-151, 2017. 2. Y Prayudi, A Ashari, T K Priyambodo, "Multiview business model for describing a mechanism of handling physical and digital evidence in digital forensics ", Journal of Theoretical and Applied Information Technology, Vol. 96, No. 2, page 333-345, 2018. 3. M W Hananto, A Ashari, K Mustofa, "Resource management and conversion process in multi-format distributed world WEB3D framework", Journal of Theoretical and Applied Information Technology, Vol. 97, No. 4, page 1129-1145, 2019. 4. L Afuan, A Ashari, Y Suyanto, "The Ontology Approach for Information Retrieval in Learning Documents", Journal of Theoretical and Applied Information Technology, Vol. 97, No. 7, page 2052-2061, 2019. 5. H Wardana, A Ashari, A K Sari, "Transformation of SysML Requirement Diagram into OWL Ontologies", International Journal of Advanced Computer Science and Applications, Vol. 11, No. 4, page 106-114, 2020. 6. Y Prayudi, A Ashari, T K Priyambodo, "The Framework to Support the Digital Evidence Handling: A Case Study of Procedures for the Management of Evidence in Indonesia", Journal of Cases on Information Technology, Vol. 22, No. 3, page 51-71, 2020. 7. N T E Hermawan, E Winarko, A Ashari, "Eight Prime Numbers of Modified RSA Algorithm Method for More Secure Single Board Computer Implementation", International Journal on Advanced Science, Engineering and Information Technology, Vol. 11, No. 6, pp. 2375-2384, 2021. 8. L N Harnaningrum, A Ashari, A E Putra, " Secure Initialization Model Improvement for NFC-HCE Security in Mobile Payment System", Journal of Theoretical and Applied Information Technology, Vol. 99, No. 24, page 6138-6151, 2021.

	<ol style="list-style-type: none"> 9. A Ashari, A Dharmawan, "Altitude and Flight Speed Control System on VTOL-Plane UAVs using the LQR method", ICIC Express Letters, Part B: Applications, Vol. 13, No. 3., page 225-232, 2022. 10. P W Sudarno, A Ashari, M Riasetiawan, "Optimizing regression algorithm performance for weak rainfall dataset prediction via ensemble machine learning models", Journal of Theoretical and Applied Information Technology, Vol. 100, No. 8, page 2542-2549, 2022.
Activities in specialist bodies over the last 5 years	None

Name	Aina Musdholifah, S.Kom., M.Kom., Ph.D.
Position	Assistant Professor
Academic career	<p>Bachelor's degree (computer science), Universitas Gadjah Mada, Indonesia, 2003.</p> <p>Master's degree (computer science), Universitas Gadjah Mada, Indonesia, 2006.</p> <p>Doctoral degree (computer science), University Technology Malaysia, Malaysia, 2013.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Artificial Intelligence-Based Recommendation System to Support Independent Learning Activities on MBKM programm, 2022. 2. Clustering Approach on Epitope Prediction Model, 2021. 3. Sentiment Analysis Model of Tweets about the COVID-19 Vaccine, 2021. 4. Student Final Project Recommendation Model, 2021. 5. Recommendation Model Using Genetic Algorithm for Student Final Project, 2020. 6. Development of Indonesian Language Part of Speech Tagger with LSTM and Morphological Features, 2019. 7. Sentiment Analysis on Youtube Video Review Using FVEC-CNN, 2018. 8. Hierarchical Clustering Method for Case-Based Reasoning System, 2017.
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Tb. Ai. Munandar, Aina Musdholifah, and Lincoln Arsyad. Modified Agglomerative with Location Quotient for Identification of Regional Potential Sector. Journal of Theoretical and Applied Information Technology, vol. 95, no. 5, pp. 1191-1199, 2017. 2. "Fitriani, Maulida Ayu; Musdholifah, Aina; Hartati, Sri; ", Adaptive Unified Differential Evolution for Clustering, IJCCS (Indonesian Journal of Computing and Cybernetics Systems), 12, 1, 53-62, 2018, 3. "Rumui, Nelson; Harjoko, Agus; Musdholifah, Aina; ", Case-Based Reasoning for Stroke Disease Diagnosis, IJCCS (Indonesian Journal of Computing and Cybernetics Systems), 12, 1, 33-42, 2018,

	<ol style="list-style-type: none"> 4. "Rinaldi, Ekki; Musdholifah, Aina; ",FVEC-SVM for opinion mining on Indonesian comments of youtube video,2017 International Conference on Data and Software Engineering (ICoDSE),,,1-5,2017,IEEE 5. "Munandar, Tb Ai; Musdholifah, A; Arsyad, L; ",Multiview hierarchical agglomerative clustering for identification of development gap and regional potential sector,arXiv preprint arXiv:1803.09379,,,2018, 6. "Tallo, Tince Etlin; Musdholifah, Aina; ",The implementation of genetic algorithm in smote (synthetic minority oversampling technique) for handling imbalanced dataset problem,2018 4th international conference on science and technology (ICST),,,1-4,2018,IEEE 7. "Sugiartawan, Putu; Hartati, Sri; Musdholifah, Aina; ",Tourist Visits Prediction with Fully Recurrent Neural Network,"International Conference on Information Technology, Engineering, Science & its Applications",2018, 8. "Tempola, Firman; Musdholifah, Aina; Hartati, Sri; ",Case Based Reasoning for Determining the Feasibility of Scholarship Grantees Using Case Adaptation,"2018 5th International Conference on Information Technology, Computer, and Electrical Engineering (ICITACEE)" ,,,370-374,2018,IEEE 9. "Yunitasari, Yessi; Musdholifah, Aina; Sari, Anny Kartika; ",Sarcasm detection for sentiment analysis in Indonesian tweets,IJCCS (Indonesian Journal of Computing and Cybernetics Systems),13,1,53-62,2019, 10. "Munir, Agus Qomaruddin; Hartati, Sri; Musdholifah, Aina; ",Early identification model for dengue haemorrhagic fever (DHF) outbreak areas using rule-based stratification approach,International Journal of Intelligent Engineering and Systems,12,2,246-259,2019, 11. "Musdholifah, Aina; Sari, Anny Kartika; ",Optimization of ARIMA forecasting model using firefly algorithm,IJCCS (Indonesian Journal of Computing and Cybernetics Systems),13,2,127-136,2019, 12. "Mustika, Hani Febri; Musdholifah, Aina; ",Book recommender system using genetic algorithm and association rule mining,Computer Engineering and Applications Journal,8,2,85-92,2019, 13. "Musdholifah, Aina; Rinaldi, Ekki; ",FVEC feature and machine learning approach for Indonesian opinion mining on YouTube comments,"2018 5th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI)" ,,,724-729,2018,IEEE 14. "Ayu, Desiana Wulaning; Hartati, Sri; Musdholifah, Aina; ",Amniotic fluid segmentation by pixel classification in b-mode ultrasound image for computer assisted diagnosis,International Conference on Soft Computing in Data Science,,,59-70,2019,"Springer, Singapore" 15. "Santoso, Herdiesel; Musdholifah, Aina; ",Case Base Reasoning (CBR) and Density Based Spatial Clustering Application with Noise (DBSCAN)-based Indexing in Medical Expert Systems,Khazanah Informatika: Jurnal Ilmu Komputer dan Informatika,5,2,169-178,2019, 16. "Elcholiqi, Abidah; Musdholifah, Aina; ",Chatbot in Bahasa Indonesia using NLP to provide banking information,IJCCS (Indonesian Journal of Computing and Cybernetics Systems),14,1,91-102,2020, 17. "Hastuti, Khafiizh; Azhari, A; Musdholifah, A; Supanggih, R; ",Rule-Based and Genetic Algorithm for Automatic Gamelan Music Composition,International Review on Modelling and Simulations,10,3,2010-212,2017,
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	<ol style="list-style-type: none"> 18. "Solihah, Binti; Azhari, Azhari; Musdholifah, Aina; ",Enhancement of conformational B-cell epitope prediction using CluSMOTE,PeerJ Computer Science,6,,e275,2020,PeerJ Inc. 19. "Trisna, I Nyoman Prayana; Musdholifah, Aina; Sari, Yunita; ",Utilizing Morphological Features for Part-of-Speech Tagging of Bahasa Indonesia in Bidirectional LSTM,2020 6th International Conference on Science in Information Technology (ICSITech),,,51-56,2020,IEEE 20. "Pradipta, Gede Angga; Wardoyo, Retantyo; Musdholifah, Aina; Sanjaya, I Nyoman Hariyasa; ",Improving classification performance of fetal umbilical cord using combination of SMOTE method and multiclassifier voting in imbalanced data and small dataset,Int. J. Intell. Eng. Syst,13,5,441-454,2020, 21. "Kusuma, Hans Satria; Musdholifah, Aina; ",Recommendation System for Thesis Topics Using Content-based Filtering,IJCCS (Indonesian Journal of Computing and Cybernetics Systems),15,1,65-74,2021, 22. "Ayu, Putu Desiana Wulaning; Hartati, Sri; Musdholifah, Aina; Nurdianti, Detty S; ",Amniotic fluid segmentation based on pixel classification using local window information and distance angle pixel,Applied Soft Computing,107,,107196,2021,Elsevier 23. "Pradipta, Gede Angga; Wardoyo, Retantyo; Musdholifah, Aina; Sanjaya, I Nyoman Hariyasa; ",Radius-SMOTE: a new oversampling technique of minority samples based on radius distance for learning from imbalanced data,IEEE Access,9,,74763-74777,2021,IEEE 24. "Ramadhan, Faisal; Musdholifah, Aina; ",Online Learning Video Recommendation System Based on Course and Syllabus Using Content-Based Filtering,"Indonesian Journal of Computing and Cybernetics Systems (IJCCS, vol. 15, no. 3, pp. 265–274, 2021, doi: 10.22146/ijccs. 65623",,,,2021, 25. "Adilaksa, Yusfi; Musdholifah, Aina; ",Recommendation System for Elective Courses using Content-based Filtering and Weighted Cosine Similarity,2021 4th International Seminar on Research of Information Technology and Intelligent Systems (ISRITI),,,51-55,2021,IEEE 26. "Wibowo, Diki Arif; Musdholifah, Aina; ",Sentiments Analysis of Indonesian Tweet About Covid-19 Vaccine Using Support Vector Machine and Fasttext Embedding,2021 4th International Seminar on Research of Information Technology and Intelligent Systems (ISRITI),,,184-188,2021,IEEE 27. "Kurniawan, Muhammad Mukhtar; Musdholifah, Aina; ",Elective Courses Recommendation System using Genetic Algorithm,"The 2021 International Conference on Computer, Control, Informatics and Its Applications",,,55-59,2021, 28. "Pradipta, Gede A; Wardoyo, Retantyo; Musdholifah, Aina; Sanjaya, I Nyoman H; ",Machine learning model for umbilical cord classification using combination coiling index and texture feature based on 2-D Doppler ultrasound images,Health Informatics Journal,28,1,14604582221084211,2022,"SAGE Publications Sage UK: London, England"
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. General Chair of The 2015 International Conference on Data and Software Engineering, ICODSE 2015. 2. Member, Associations of Indonesian Higher Education Institutions for Informatics and Computer - Aptikom.

Name	Andi Dharmawan, S.Si., M.Cs., Dr.
Position	Assistant Professor
Academic career	Bachelor's degree (Electronics and Instrumentation), Universitas Gadjah Mada, Indonesia, 2006. Master's degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2009. Doctoral degree (computer science), Universitas Gadjah Mada, Indonesia, 2017.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Driver and Vehicle Condition Monitoring and Data Acquisition System Using AI, GPS, and IoT, 2022. 2. Early Detection of Polymer Compound Vapors and Harmful Pollutants with Internet of Things (IoT) Based Intelligent Instruments, 2022. 3. Industrial IoT Technology Digital Manufacturing Solutions, 2021 4. Deep learning Research Center strengthening with NVIDIA, 2021 5. Development of Avalanche Early Warning System, 2021. 6. Auto-Loitering Control on Unmanned Aircraft with LQR Method and Cross-Track Error, 2021. 7. Pattern and Balance Control of Kicking the Ball on a Humanoid Robot using the LQR Method and Fuzzy Full-State Feedback, 2021. 8. Multi-Agent Reinforcement Learning in Optimizing Autonomous Traffic Light Management Collectively, 2021. 9. Development of 6 Degree of Freedom (DoF) Robot for Vision-Based and Artificial Intelligent Product Inspection., 2020 - 2021. 10. Development of Multi-Point Water Level Monitoring System in River Flow Based on Sensor Networks and Internet of Things (IoT), 2020 -2021. 11. Development of Finger Robots for Motion Diagnosis and Support for Patients with Finger Muscle Disorders and Physiotherapists, 2020 - 2021. 12. Deep Reinforcement Learning Simulation in Autonomous Robot Development, 2020. 13. Humanoid Robot Walking Pattern and Balance Control on Uneven Surface, 2020. 14. Control of Automatic Take Off and Stall Handling on Fixed Wing Unmanned Aerial Vehicle, 2020. 15. Development of Autopilot Flight Controller and Ground Control Station (GCS) as Unmanned Aerial Vehicle (Drone) Avionics System, 2019 – 2021. 16. Fixed Wing Unmanned Aerial Vehicle Control System, 2019. 17. Manufacture of Unmanned Aerial Vehicle (Drone) for Early Detection of Forest Fires Based on Thermal Cameras and Intelligent Sensors, 2019. 18. Loiter Control on Fixed Wing Unmanned Aircraft Flight, 2019.

	<ol style="list-style-type: none"> 19. Balance Control Walk to Turn Right and Left on Humanoid Robot, 2019. 20. Automatic Landing Control of Fixed Wing Unmanned Aerial Vehicle Using Linear Quadratic Regulator, 2018. 21. Electric Ducted Fan Horizontal Flight Speed Stability Control, 2018. 22. Airborne Flood Disaster Mitigation Based on Image Processing Technology Using Unmanned Aerial Vehicle, 2017. 23. Quadrotor Flight Control System using LQR and Madgwick Quaternion Kalman Filter Method, 2017. 24. Radiation Data Information System and Control using Radiation Portal Monitor (RPM), 2017
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1. PT Pandu Aman Sentosa (Driver and Vehicle Condition Monitoring and Data Acquisition System Using AI, GPS, and IoT), 2022. 2. PT Stechoq dan PT YPTI (Early Detection of Polymer Compound Vapors and Harmful Pollutants with Internet of Things (IoT) Based Intelligent Instruments), 2022. 3. PT Stechoq dan PT YPTI (Industrial IoT Technology Digital Manufacturing Solutions), 2021 4. PT Epsindo (Deep learning Research Center strengthening with NVIDIA), 2021 5. BMKG (Development of Avalanche Early Warning System), 2021. 6. PT PGAS Telekomunikasi Nusantara (Development of Finger Robots for Motion Diagnosis and Support for Patients with Finger Muscle Disorders and Physiotherapists), 2020 - 2021. 7. PT Toyota Motor Manufacture Indonesia (Development of 6 Degree of Freedom (DoF) Robot for Vision-Based and Artificial Intelligent Product Inspection.), 2020. 8. PT PGAS Telekomunikasi Nusantara (Development of Multi-Point Water Level Monitoring System in River Flow Based on Sensor Networks and Internet of Things (IoT)), 2020 - 2021. 9. PT Stechoq dan PT Bentara Tabang Nusantara (Development of Autopilot Flight Controller and Ground Control Station (GCS) as Unmanned Aerial Vehicle (Drone) Avionics System), 2019 – 2021. 10. PT YPTI (Manufacture of Unmanned Aerial Vehicle for Early Detection of Forest Fires Based on Thermal Cameras and Intelligent Sensors), 2019. 11. BATAN, PT LEN, BAPETEN (Radiation Data Information System and Control using Radiation Portal Monitor), 2017 – 2019.
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Hak Cipta: Aplikasi Remote Digital Control System (DCS) 2. Hak Cipta: Aplikasi Deteksi Keadaan Kantuk Pengemudi Kendaraan Bermotor 3. Hak Cipta: Dashboard IoT Pemantau Kondisi Pengemudi dan Kendaraan Bermotor
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Gesang Nugroho, Andi Dharmawan, Danang Lelono, Ariesta Martiningtyas Handayani - Waypoint Tracking of a Fixed Wing UAV Using the L1 Cross Track Error Control, ICIC-ELB, 2022.

	<ol style="list-style-type: none"> 2. Ahmad Ashari, Andi Dharmawan - Altitude and Flight Speed Control System on VTOL-Plane UAVs using the LQR method, ICIC-ELB, 2022. 3. Bambang Riyono, Reza Pulungan, Andi Dharmawan, Anhar Riza Antariksawan - Experimental investigation on the thermohydraulic parameters of Kartini research reactor under variation of the primary pump flow, Applied Thermal Engineering, 2022. 4. Catur Atmaji, Danang Lelono, Agus Harjoko, Andi Dharmawan - The Use of Time and Frequency Features in Finger Movements Based on Electromyogram Recording, International Conference for Advancement in Technology (ICONAT), 2022. 5. Erwin Eko Wahyudi, Muhammad Auzan, Andi Dharmawan, Nanang Susyanto, Guruh Samodra, Danang Sri Hadmoko, - Akuisisi Data Prediksi Curah Hujan Secara Periodik Menggunakan Apache Airflow, Journal of Informatics, Information System, Software Engineering and Applications (INISTA), 2022. 6. Wahyono, Andi Dharmawan, Agus Harjoko, Chrystian, Faisal Dharma Adhinata - Region-based Annotation Data of Fire Images for Intelligent Surveillance System, Data in Brief, 2022. 7. Wahyono, Agus Harjoko, Andi Dharmawan, Faisal Dharma Adhinata, Gamma Kosala, Kang-Hyun Jo - Real-Time Forest Fire Detection Framework Based on Artificial Intelligence using Color Probability Model and Motion Feature Analysis, Fire, 2022. 8. Muhammad Idham Ananta Timur, Jazi Eko Istiyanto, Andi Dharmawan, Beatrice Paulina Setiadi, - Single Camera Data Augmentation in End-to-end Deep Learning Simulated Self Driving Car, ICIC-ELB, 2022. 9. Muhammad Idham Ananta Timur, Jazi Eko Istiyanto, Andi Dharmawan, Rois Nur Hakim, Ahmad Shiddiq - Deep Q-Network Configuration and Performance for a Power Line Inspection Autonomous Quadrotor in a Simulated World, ICIC-ELB, 2021. 10. Oskar Natan, Diyah Utami Kusumaning Putri, Andi Dharmawan - Deep Learning-based Spot-Welding Segmentation using Modified UNet with Various Convolutional Blocks, ICIC-ELB, 2021. 11. Catur Atmaji, Yusuf Waraqa Santoso, Roghib Muhammad Hujja, Andi Dharmawan, Danang Lelono - Klasifikasi Gerak Jari berbasis Surface Electromyogram Otot Lengan, Indonesian Journal of Electronics and Instrumentation System (IJEIS), 2021. 12. Aufaclav Zatu Kusuma Frisky, Agus Harjoko, Lukman Awaludin, Andi Dharmawan, Nia Gella Augoestien, Ika Candradewi, Roghib Muhammad Hujja, Andi Putranto, Tri Hartono, Yudi Suhartono, Sebastian Zambanini, Robert Sablatnig - Registered Relief Depth (RRD) Borobudur Dataset for Single-frame Depth Prediction on one-side Artifacts, Data in Brief, 2021. 13. Ahmad Ashari, Hafizna Arsyil Fadhli, Andi Dharmawan, Ariesta Martiningtyas Handayani - Flight Trajectory Control System on Fixed
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	<p>Wing UAV using Linear Quadratic Regulator, International Journal of Engineering Research and Technology (IJERT), 2019.</p> <p>14. Andi Dharmawan, Curie Habiba, Muhammad Auzan - Walking Stability Control System on Humanoid When Turning Based on LQR Method, International Journal of Scientific and Technology Research, 2019.</p> <p>15. Nuzula Afianah, Agfianto Eko Putra, Andi Dharmawan - High-Level Synthesize of Backpropagation Artificial Neural Network Algorithm on the FPGA, 5th International Conference on Science and Technology (ICST), 2019.</p> <p>16. Andi Dharmawan, Lazuardi Ichsan, Hanif Baskoro, Jazi Eko Istiyanto, Ariesta Martiningtyas Handayani - Attitude and Horizontal Speed Control System on Unmanned Aerial Vehicle Using LQR, 5th International Conference on Science and Technology (ICST), 2019.</p> <p>17. Andi Dharmawan, Ahmad Ashari, Ariesta Martiningtyas Handayani, Riarsari Meirani Utami, I Made Tresnayana - Auto Landing System on A Fixed Wing Unmanned Aerial Vehicle Using Linear Quadratic Approach, 5th International Conference on Science and Technology (ICST), 2019.</p> <p>18. Danang Lelono, Hanif Nuradi, Muhammad Rangga Satriyo, Triyogatama W. Widodo, Andi Dharmawan, Jazi Eko Istiyanto - Comparison of Difference, Relative and Fractional Methods for Classification of The Black Tea Based on Electronic Nose, International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM), 2019.</p> <p>19. Andi Dharmawan, Agfianto Eko Putra, I Made Tresnayana, Wahyu Agung Wicaksono - The Obstacle Avoidance System In A Fixed-Wing UAV When Flying Low Using LQR Method, International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM), 2019.</p> <p>20. Andi Dharmawan, Ahmad Ashari, Agfianto Eko Putra - Translation Movement Stability Control of Quad Tiltrotor Using LQR and LQG, International Journal of Intelligent Systems and Applications, 2018.</p> <p>21. Muhamad Fikri, Ahmad Ashari, Andi Dharmawan, Bakhtiar Alldino Ardi Sumbodo - An Overview of Fundamental Step Using Wi-Fi Communication for Flight Formation Quadrotors, 4th International Conference on Science and Technology (ICST), 2018.</p> <p>22. Andi Dharmawan, Ahmad Ashari, Angela Gusti Aprilia, Ariesta Martiningtyas Handayani - Auto VTOL System on Quadrotor Using Madgwick Quaternion Kalman Filter and LQR, 4th International Conference on Science and Technology (ICST), 2018.</p> <p>23. Gesang Nugroho, Andi Dharmawan - Undesirable rolling minimization on the EDF missiles flight based on LQR methods, International Conference on Advanced Mechatronics, Intelligent Manufacture, and Industrial Automation (ICAMIMIA), 2017.</p>
Activities in specialist bodies over the last 5 years	<p>1. IT Coordinator in Indonesian International Student Mobility Awards (IISMA), 2021 – present.</p> <p>2. Supervisor in Gadjah Mada Robotic Team, 2019 – present.</p>

	<ol style="list-style-type: none"> 3. Head of Supervisor in Gadjah Mada Flying Object Research Center, 2018 – present. 4. Supervisor in Gadjah Mada Flying Object Research Center, 2015 – present. 5. Member of Asosiasi Sistem dan Teknologi Tanpa Awak (ASTTA), 2020 – present. 6. Member of Indonesia AI Society (IAIS), 2020 – present. 7. Member of IEEE, 2019 – present. 8. Secretary of Aeronautics Research Group, 2016 – 2017. 9. Member of IndoCEISS (Indonesian Computer, Electronics, and Instrumentation Support Society), 2010 – present.
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Name	Anny Kartika Sari, S.Si., M.Sc., Ph.D.
Position	Associate Professor
Academic career	<p>Bachelor's degree (Computer Science), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia, 2000.</p> <p>Master's degree (Telematics), Universiteit Twente, The Netherlands, 2004.</p> <p>Doctoral degree (Computer Science), La Trobe University, Australia, 2014.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. The development of image segmentation for brain MRI of Autism Spectrum Disorders (ASD) Patients, 2022. 2. Detection model of spam comments in social media with posting-comment pair approach using LSTM-CNN based on Attention and Emoji Features, 2022 3. OOV handling of Indonesian words using modified soundex algorithm, 2021. 4. NTRU cryptosystem over integral area $Z[\sqrt{n}]$, 2021. 5. Secure and democratic e-voting with the implementation of homomorphic encryption and smart contract based blockchain, 2020. 6. Analysis of change propagation in Unified Medical Language System based on the evolution of Medical Subject Heading and National Cancer Institute Thesaurus, 2020. 7. Operating Convolutional Neural Network on encrypted data at cloud server for diagnosing patient's disease, 2019. 8. Mapping of change operations from Gene Ontology into Medical Subject Headings based on semantic similarity, 2019. 9. Prediction model on encrypted data based on Partially Homomorphic Encryption using Regresi Linier, 2019. 10. Formal representation of operations on the evolution of Gene Ontology, 2018. 11. Identifying and Representing Change Operations in LOINC Terminology, 2017.
Industry collaborations over the last 5 years	Smart Farming, PT Rajawali Nusantara Indonesia, 2020
Patents and proprietary rights	<ol style="list-style-type: none"> 1. An algorithm for symmetric key generation in color images, 2019 2. An algorithm for securing color images using cryptosystem model integrated with symmetric key distribution using Eo, 2019
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. RP Hastuti, Y Suyanto, AK Sari, 2022, Q-Learning for Shift-Reduce Parsing in Indonesian Tree-LSTM-Based Text Generation, Transactions

	<p>on Asian and Low-Resource Language Information Processing 21 (4), 1-14.</p> <ol style="list-style-type: none"> 2. Mulkiah, Suprpto, AK Sari, 2021, Compression-Encryption Model for Digital Images Based on GAN and Logistic Map, 2021 International Seminar on Intelligent Technology and Its Application. 3. A Afyati, A Azhari, AK Sari, A Karim, 2021, Challenges of Sarcasm Detection for Social Network: A Literature Review, JUITA: Jurnal Informatika 8 (2), 169-178. 4. E Setyaningsih, R Wardoyo, AK Sari, 2020, Securing color image transmission using compression-encryption model with dynamic key generator and efficient symmetric key distribution, Digital Communications and Networks 6 (4), 486-503. 5. AN Cahyo, AK Sari, M Riasetiawan, 2020, Comparison of hybrid intrusion detection system, 2020 12th International Conference on Information Technology and Electrical Engineering (ICITEE). 6. AK Sari, 2020, Mapping of Change Operations from Gene Ontology into Medical Subject Headings, International Journal of Intelligent Engineering and Systems, Vol.13, No.4, 44-55. 7. H Wardhana, A Ashari, AK Sari, 2019, Linear Support Vector Regression in Cloud Computing on Data Encrypted using Paillier Cryptosystem, 2019 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI). 8. K Jonathan, AK Sari, 2019, Security issues and vulnerabilities on a blockchain system: A review, 2019 International Seminar on Research of Information Technology and Intelligent Systems (ISRITI). 9. FMW Prasetya, AK Sari, 2019, Pneumonia Risk Assessment on Data Encrypted using a Homomorphic Cryptosystem, 2019 2nd International Conference on Bioinformatics, Biotechnology and Biomedical Engineering (BioMIC)-Bioinformatics and Biomedical Engineering. 10. AK Sari, FMW Prasetya, 2019, Linear SVM for Classifying Breast Cancer Data Encrypted Using Homomorphic Cryptosystem, 2019 5th International Conference on Science and Technology (ICST) 1, 1-6. 11. F Junis, FMW Prasetya, FI Lubay, AK Sari, 2019, A revisit on blockchain-based smart contract technology. 12. IBG Sarasvananda, R Wardoyo, AK Sari, 2019, The K-Means Clustering Algorithm With Semantic Similarity To Estimate The Cost Of Hospitalization, IJCCS (Indonesian Journal of Computing and Cybernetics Systems) 13 (4), 313-322. 13. AK Sari, 2019, Identification and formal representation of change operations in LOINC evolution, International Journal of Advanced Computer Science and Applications 10 (1). 14. HI Wardhana, K Mustofa, AK Sari, 2018, Utilization of semantic web rule language for tourism ontology, 2018 Third International Conference on Informatics and Computing (ICIC), 1-5 15. R Wardoyo, E Setyaningsih, AK Sari, 2018, Symmetric key distribution model using rsa-crt method, 2018 Third International Conference on Informatics and Computing (ICIC), 1-9. 16. A Abdiansah, A Azhari, AK Sari, 2018, Inarte: An indonesian dataset for recognition textual entailment, 2018 4th International Conference on Science and Technology (ICST), 1-5. 17. A Abdiansah, A Azhari, AK Sari, 2018, Survey on answer validation for Indonesian question answering system (IQAS), International Journal of Intelligent Systems and Applications (IJISA) 10 (4), 68-78.
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	<ol style="list-style-type: none"> 18. CH Primasari, R Wardoyo, AK Sari, 2018, Integrated AHP, Profile Matching, and TOPSIS for selecting type of goats based on environmental and financial criteria, International Journal of Advances in Intelligent Informatics 4 (1), 28-39. 19. I Unggara, A Musdholifah, AK Sari, 2018, Optimization of ARIMA Forecasting Model using Firefly Algorithm, IJCCS (Indonesian Journal of Computing and Cybernetics Systems) 13 (2), 127-136 20. H Wardhana, A Ashari, AK Sari, 2018, Review of ontology evolution process, International Journal of Computer Applications 45, 26-33 21. Y Yunitasari, A Musdholifah, AK Sari, 2018, Sarcasm Detection for Sentiment Analysis in Indonesian Language Tweets, IJCCS (Indonesian Journal of Computing and Cybernetics Systems) 13 (1), 53-62 22. E Setyaningsih, R Wardoyo, AK Sari, 2018, New compression–encryption algorithm using chaos-based dynamic session key, International Journal on Smart Sensing and Intelligent Systems 11 (1), 1-19. 23. A Abdiansah, A Azhari, AK Sari, 2018, WERTES: Web as External Resources for Textual Entailment Systems, International Journal of Intelligent Engineering and Systems 11 (3), 91-99. 24. Sugiartawan, P., Pulungan, R., Sari, A.K., 2017, Prediction by a Hybrid of Wavelet Transform and Long-Short-Term-Memory Neural Network, International Journal of Advanced Computer Science, Vol. 8 (2), pp 326-332.
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Member, Association for Computing Machinery. 2. Member, IAENG (International Association of Engineers) 3. Head of Department of Education and Training, Indonesian Computer, Electronics and Instrumentation Support Society (IndoCEISS)

Name	Arif Nurwidyantoro, S.Kom., M.Cs
Position	Lecturer
Academic career	<p>Bachelor's degree (Computer Science), Bogor Agricultural Institute, Indonesia, 2008.</p> <p>Master's degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2011.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	None
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. TH Quang, A Nurwidyantoro, SA Rukmono, MRV Chaudron, F Froding, DN Ngoc, "Role Stereotypes in Software Design and their Evolution", 2022, Journal of Systems and Software 2. A Nurwidyantoro, M Shahin, MRV Chaudron, W Hussain, RA Shams, H Perera, G Oliver, J Whittle, "Human Values in Software Development Artefacts: A Case Study of Issue Discussions in three Android

	<p>Applications”, 2022, Information and Software Technology: Special Issue on Waste and Values in Software Engineering</p> <p>3. A Nurwidyantoro, M Shahin, MRV Chaudron, W Hussain, H Perera, RA Shams, J Whittle, “Towards a Human Values Dashboard for Software Development: An Exploratory Study”, 2021, Proceedings of the 15th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement</p> <p>4. H Perera, W Hussain, J Whittle, A Nurwidyantoro, D Mougouei, RA Shams, G Oliver, “A Study on the Prevalence of Human Values in Software Engineering Publications”, 2015--2018, 2020, Proceedings of the ACM/IEEE 42nd International Conference on Software Engineering</p> <p>5. A Nurwidyantoro, TH Quang, MRV Chaudron, “Automated Classification of Class Role-Stereotypes via Machine Learning”, 2019, Proceedings of the Evaluation and Assessment on Software Engineering</p>
Activities in specialist bodies over the last 5 years	None

Name	Aufaclav Zatu Kusuma Frisky, S.Si. ,M.Sc.
Position	Lecturer
Academic career	<p>Bachelor’s degree (Elektronics and Instrumentation), Universitas Gadjah Mada, Indonesia, 2012.</p> <p>Master’s degree (Computer Science and Information Engineering, National Central University, Taiwan, 2015.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<p>1. Speech recognition implementation as controller on smart bulletin board, 2017</p> <p>2. Construction of Multi Purposes Low Cost Dome for 3D Reconstruction for Preservation of Cultural Heritage Artifacts 2022</p> <p>3. Semantic Annotation on Temple Relief Data Using Depth Feature: Data Preparation and Review 2021</p> <p>4. Optimization of Image Processing on Robots Using Multi Single Board Computers With Grid Computing Method</p>
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<p>1. Frisky, A.; Fajri, A.; Brenner, S. and Sablatnig, R. (2020). Acquisition Evaluation on Outdoor Scanning for Archaeological Artifact Digitalization. In Proceedings of the 15th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 5: VISAPP, ISBN 978-989-758-402-2; ISSN 2184-4321, pages 792-799. DOI: 10.5220/0008964907920799</p> <p>2. Frisky, Aufaclav & Putranto, Andi & Zambanini, Sebastian & Sablatnig, Robert. (2021). MCCNet: Multi-Color Cascade Network with Weight Transfer for Single Image Depth Prediction on Outdoor Relief Images. In book: Pattern Recognition. ICPR International</p>

	<p>Workshops and Challenges (pp.263-278). DOI:10.1007/978-3-030-68787-8-19.</p> <ol style="list-style-type: none"> 3. Frisky, Aufaclav, Brenner, Simon, Zambanini, Sebastian, and Sablatnig, Robert. (2022). Color-Light Multi Cascade Network for Single Image Depth Prediction on One Perspective Artifact Images. In Proceedings of the 17th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISAPP) 2022. 4. Aufaclav Zatu Kusuma Frisky, Agus Harjoko, Lukman Awaludin, Andi Dharmawan, Nia Gella Augoestien, Ika Candradewi, Roghib Muhammad Hujja, Andi Putranto, Tri Hartono, Yudi Suhartono, Sebastian Zambanini, Robert Sablatnig (2021). Registered Relief Depth (RRD) Borobudur dataset for single-frame depth prediction on one-side artifacts, Data in Brief, Volume 35, 2021, 106853, ISSN 2352-3409, https://doi.org/10.1016/j.dib.2021.106853. 5. Agus Harjoko, Sri Hartati, Bakhtiar Alldino Ardi Sumbodo, Aufaclav Frisky Zatu Kusuma, "T-SNE Color and SFTA Texture Features for Aerial Images Palm Oil Plantations Area Classification", 2016 IIER 100th International Conference on Recent Innovations in Engineering and Technology (ICRIET), Auckland, New Zealand. 2016. 6. Frisky, A. Z. K., Harjoko, A., Awaludin, L., Zambanini, S., and Sablatnig, R. (2021). Investigation of single image depth prediction under different lighting conditions: A case study of ancient roman coins. Journal on Computing and Cultural Heritage, 14(4).
Activities in specialist bodies over the last 5 years	None

Name	Azhari, Dr., MT.
Position	Associate Professor
Academic career	<p>Bachelor's degree (Statistics), Universitas Gadjah Mada, Indonesia, 1988.</p> <p>Master's degree (Informatics Engineering), Bandung Institute of Technology, Indonesia, 2000.</p> <p>Doctoral degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2010.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Development of Forest Healthy Forecasting Application, 2018 2. Machine Learning Methods for Recognizing Human Activity on Disability Support Devices, 2019 3. Question Answering System using Knowledge Based Approaches for Criminal Investigation, 2019 4. Identification of Crime Networks using Social Network Analysis, 2019 5. Pendekatan Hybrid Multiagen Cerdas untuk Peringkasan Multitext Dokumen dari Dataset Berita Ketahanan Energi 6. Hybrid Intelligent Multiagent Approaches for Multitext Documents Summarization from Energy Security News Dataset, 2021 7. The Development of Benchmark Dataset and Model for Authorship Attribution in Indonesian Language, 2021

Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Teotino Gomes Soares, Azhari, Nur Rokhman, Edi Winarko, Education Question Answering Systems: A Survey, 2021 2. Isna Alfi Bustoni, Annisa Maulida Ningtyas, Azhari, Classification methods performance on human activity recognition, 2019 3. Isna Alfi Bustoni, Azhari, Nia Gella Augoestien, Multidimensional Earcon Interaction Design for the Blind: A Proposal and Evaluation, 2018 4. Azhari, Tri Kuntoro Priyambodo, Hybrid Intelligent Detection and Prevention System for Banking Crime Financial Transaction, 2017 5. Binti Sholihah, Azhari, Aina Musdholifah, The Empirical Comparison of Machine Learning Algorithm for the Class Imbalanced Problem in Conformational Epitope Prediction, 2021 6. Nurul Hidayat, Retantyo Wardoyo, Azhari, Herman Dwi Surjono, Enhanced Performance of the Automatic Learning Style Detection Model using a Combination of Modified K-Means Algorithm and Naive Bayesian, 2020 7. Azhari, Khabib Mustofa, Model for Measuring Benefit of Government IT Investment using Fuzzy AHP, 2020 8. Winda Yulita, Sigit Priyanta, Azhari, Automatic Text Summarization Based on Semantic Networks and Corpus Statistics, 2019 9. Wahyono, Muhammad Arif Rahman, Azhari, Classification of Galaxy Morphological Image Based on Convolutional Neural Networks, 2018 10. Munandar Hasan, Azhari, Aina Musdholifah, Lincoln Arsyad, Modified Agglomerative Clustering with Location Quotient for Identification of Regional Potential Sector, 2017
Activities in specialist bodies over the last 5 years	None

Name	Bakhtiar Alldino A.S., S.Si, M.Cs.
Position	Assistant Professor
Academic career	<p>Bachelor's degree (Electronics and Instrumentation), Universitas Gadjah Mada, Indonesia</p> <p>Master's degree (Computer Science), Universitas Gadjah Mada, Indonesia</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Ball Tracking System on Humanoid Robot, 2017 2. Implementation of Fask Mask Detection System using Multi-Task Cascaded Convolutional Networks on Single Board Computers, 2021 3. Real Time Smart Parking System using Deep Learning Implementation, 2019 4. Vehicle Identification using Deep Learning, 2019 5. Design and Development of Local Processing Unit based on Single Board Computers for Car Detection using Deep Learning Methods, 2020 6. Design and Development of Cyber Physics System for Visualization and Control of Turtle Robot based on Real-time Web, 2021

Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Bakhtiar Alldino Ardi Sumbodo, Andi Dharmawan, Danang Lelono, Nafis Khuriyati, Gesang Nugroho, Jovanka Addin, Annan Havis AS AD, Ivan Lionel, Development of Automatic Handwashing Technology - Aswagama as a Supporting Facility for a Clean and Healthy Lifestyle in Several Public Health Service Facilities in Efforts to Prevent the Spread of COVID-19 in Yogyakarta, 2020 2. Agus Harjoko, Ika Candradewi, Bakhtiar Alldino Ardi Sumbodo, Intelligent Traffic Monitoring Systems: Vehicles Detection, Tracking and Counting using Haar Cascade Classifier and Optical Flow, Proceedings of the International Conference on Video and Image Processing, pp. 49-55, 2017 3. Ika Candradewi, Bakhtiar Alldino Ardi Sumbodo, Andi Dharmawan, Face Mask Detection using Deep Learning Multi-task Cascaded and Convolutional Neural Networks, 2021 4. Bakhtiar Alldino Ardi Sumbodo, Design and Development of Local Processing Unit based on Single Board Computer for Car Detection using Deep Learning Methods, 2020 5. Agfianto Eko Putra, Bakhtiar Alldino Ardi Sumbodo, Catur Atmaji, Design and Development of a Raspberry Pi 2-based APRS Package Receiver Prototype for Earth Station, 2019 6. Ikhwannuary Raditya Priyadana, Bakhtiar Alldino Ardi Sumbodo, Triyogatama Wahyu Widodo, Implementation of PSO Algorithm on Multi Mobile Robot to Determine the Nearest Target Position, Indonesian Journal of Electronics and Instrumentation System, Vol 8, Issue 1, pp. 13-24, 2018 7. Wisnu Pamungkas, Bakhtiar Alldino Ardi Sumbodo, Catur Atmaji, Implementation of Kalman Filter on EDF Rocket Control, Indonesian Journal of Electronics and Instrumentation Systems, Vol.7, Issue 1, pp. 37-48, 2017 8. Bakhtiar Alldino Ardi Sumbodo, Andi Dharmawan, Faizah, Implementation of Internet Technology as a Solution for Communication Problems in Nyamuk Village, Karimunjawa, Jepara, Indonesian Journal of Community Engagement, Vol. 2, Issue 2, pp. 189-203, 2017 9. Ika Candradewi, Agus Harjoko, Bakhtiar Alldino Ardi Sumbodo, Intelligent Traffic Monitoring System using Support Vector Machine,, International Journal of Artificial Intelligence Research Vol 5 (1), pp. 78-90, 2021. 10. Anggit Wicaksana, Bakhtiar Alldino, Ardi Sumbodo, Design and Development of Intel Edison Platform as IoT Gateway based on MQTT Protocol, Indonesian Journal of Electronics and Instrumentation System, Vol 10 Issue 2, pp. 109-120, 2020 11. Bakhtiar Alldino Ardi Sumbodo, Designing and Intelligent Traffic Control System at UGM Campus Portal, International Journal of Advanced Research in Science, Engineering and Technology, Vol 6 Issue 2, pp. 8130-8139, 2019 12. Bakhtiar Alldino Ardi Sumbodo, Ariestyo Rahardian, Design and Development of ARTag Detection System as Runway for AR Drone using Robot Operating System (ROS) Platform, Indonesian Journal of

	<p>Electronics and Instrumentation Systems, Vol 8, Issue 2, pp. 131-142, 2018</p> <p>13. Muhammad Fikri, Ahmad Ashari, Andi Dharmawan, Bakhtiar Alldino, An Overview of Fundamental Step using Wifi Communication for Flight Formation Quadrotors, 4th International Conference on Science and Technology (ICST), pp. 1-5, 2018</p> <p>14. Muhammad Irfan, Bakhtiar Alldino Ardi Sumbodo, Ika Candradewi, Vehicle Detection Classification System based on Image Processing with Multilayer Perceptron Methods, Indonesian Journal of Electronics and Instrumentation Systems, Vol. 7, Issue 2, pp. 139-148, 2017</p> <p>15. Doni Pradana, Bakhtiar Alldino Ardi Sumbodo, Design and Development of M2M (Machine-to-Machine) Communication based on 6LoWPAN, Indonesian Journal of Electronics and Instrumentation Systems, Vol. 7, Issue 1, pp. 93-104, 2017</p> <p>16. Bhima Caraka, Bakhtiar Alldino Ardi Sumbodo, Ika Candradewi, Classification of Leukocytes using Support Vector Machine (SVM) based on Image Processing, Indonesian Journal of Electronics and Instrumentation Systems, Vol. 7, Issue 1, 2017</p> <p>17. Elki Muhamad Pamungkas, Bakhtiar Alldino Ardi Sumbodo, Ika Candradewi, Balls Detection and Tracking System using Hough Circle Transform, Blob Detection, and Camshift Methods for AR.Drone, Indonesian Journal of Electronics and Instrumentation Systems, Vol. 7, Issue 1, pp. 1-12, 2017</p> <p>18.</p>
Activities in specialist bodies over the last 5 years	None

Name	Bambang Nurcahyo Prastowo, Drs., M. Sc.,
Position	Assistant Professor
Academic career	Bachelor's degree (Physics), Universitas Gadjah Mada, Indonesia, 1985. Master's degree (Computer Science), Queen's University, Canada , 1988.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	Customer classification system based on physical form to improve the effectiveness of advertising attractiveness, 2017
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<p>1. Bambang Nurcahyo Prastowo (2022), Informatika Sosial: Mengendalikan Teknologi untuk Kehidupan Sosial yang Lebih Baik, Jakarta: Buana Ilmu Populer (Kelompok Gramedia), ISBN: 978-623-04-0794-9</p> <p>2. Drs. Bambang Nurcahyo Prastowo, M.Sc.; Nur Achmad Sulistyo Putro, S.Si., M.Cs.; Oktaf Agni Dhewa, "PLO User Interfacebased onTelegram Bot", Indonesian Journal of Computing and Cybernetics Systems, Volume 13, no 1, 2019</p>

Activities in specialist bodies over the last 5 years	MBKM Center of Excellence, Committee Chair, 2021, Department of Computer Science and Electronics, FMIPA, Universitas Gadjah Mada
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Name	Catur Atmaji, S.Si, M.Cs
Position	Assistant Professor
Academic career	Bachelor's degree (Electronics and Instrumentation), Universitas Gadjah Mada, Indonesia Master's degree (Computer Science and Electronics), Universitas Gadjah Mada, Indonesia
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Development of Finger Robots for Motion Diagnosis and Support for Patients with Finger Muscle Disorders and Physiotherapists, 2020 - 2021. 2. Perbandingan Hasil Klasifikasi Gerak Jari dari Ciri pada Domain Waktu dan Frekuensi berdasar Data Rekam Surface Electromyogram (sEMG), 2021 3. Pengembangan Robot Jari untuk Diagnosis dan Dukungan Gerak bagi Pasien dengan Gangguan Otot Jari dan Fisioterapis, 2020 4. Pengembangan Teknologi Internet of Things Ramah Pengguna untuk mendukung Kesiapsiagaan Bencana, 2019 5. Penyempurnaan dan Standarisasi Sistem Informasi, Anunsiator dan Kendali RPM (Radiation Portal Monitoring) PPTI, 2018-2019
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Fadhlullah, M., Atmaji, C., 2022, Pemodelan Harmonik untuk Pelafalan Makhraj Huruf Hijaiah, <i>Indonesian Journal of Electronics and Instrumentation System (IJEIS)</i>, 12 (1) 2. Rafiqo, D., Suyanto, Y., Atmaji, C., 2022, Klasifikasi Suara Paru-paru berdasarkan Ciri MFCC, <i>Indonesian Journal of Electronics and Instrumentation System (IJEIS)</i>, 12 (1) 3. Atmaji, C., Lelono, D., Harjoko, A., Dharmawan, A., 2022, The Use of Time and Frequency Features in Finger Movements based on Electromyogram Recording, <i>Proceeding of 2022 International Conference for Advancement in Technology (ICONAT)</i> 4. Atmaji, C., Santoso, Y.W., Hujja, R.M., Dharmawan, A., Lelono, D., 2021, Klasifikasi Gerakan Jari Tangan Berdasarkan Sinyal Electromyogram pada Lengan, <i>Indonesian Journal of Electronics and Instrumentation System (IJEIS)</i>, 11 (1) 5. Buditama, J.A.C., Atmaji, C., Putra, A.E., 2021, Deteksi Kesalahan Pengucapan Huruf Jawa Carakan dengan Jaringan Syaraf Tiruan Perambatan Balik, <i>Indonesian Journal of Electronics and Instrumentation System (IJEIS)</i>, 11 (2) 6. Maji, J.S., Atmaji, C., 2020, Kendali Arah pada Brain Computer Interface berbasis Steady State Visual Evoked Potentials, <i>Indonesian Journal of Electronics and Instrumentation System (IJEIS)</i>, 10 (2)

	<ol style="list-style-type: none"> Putro, N.A.S., Atmaji, C., Devianto, K., Perwira, Z.Y., 2019, Peningkatan Skalabilitas Mini Weather Portable berbasis Internet of Things, <i>Indonesian Journal of Electronics and Instrumentation System (IJEIS)</i>, 9 (2) Lelono, D., Putri, R.P., Atmaji, C., 2019, Tofu Shelf Life Using Electronic Nose Based On Curve Fitting Method, <i>Proceeding of 2019 5th International Conference on Science and Technology (ICST)</i> Putra, A.E., Nugroho, U.A., Sumbada, B.A.A., Atmaji, C., 2019, Rancang Bangun Purwarupa Penerima Paket APRS berbasis Raspberry Pi 2 untuk Stasiun Bumi, <i>Indonesian Journal of Electronics and Instrumentation System (IJEIS)</i>, 9 (1) Putra, A.E., Atmaji, C., Ghaleb, F., 2018, EEG-Based Emotion Classification Using Wavelet Decomposition and K-Nearest Neighbor, <i>Proceeding of 2018 4th International Conference on Science and Technology (ICST)</i> Atmaji, C., Putra, A.E., Tontowi, I.A., 2018, Three-Class Classification of EEG Signals Using Support Vector Machine Methods, <i>Proceeding of 2018 4th International Conference on Science and Technology (ICST)</i> Dimas, R.W., Atmaji, C., 2018, Analisis Perbedaan Pola Sinyal EEG berdasarkan Jenis Kelamin yang Berbeda saat Numerical Stroop Task, <i>Indonesian Journal of Electronics and Instrumentation System (IJEIS)</i>, 8 (1) Atmaji, C., Putra, A.E., Hanif, A., Sliding window method for eye movement detection based on electrooculogram signal, <i>Proceeding of 2018 International Conference on Information and Communications Technology (ICOIACT)</i> Soewardi, H., Azzahra, F., Atmaji, C., 2018, Electroencephalograph Analysis of Mental Fatigue in Learning the Physics at Senior High School's Students, <i>International Journal of Engineering & Technology</i>, 7 (4)
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> Member IndoCEISS (Indonesian Computer, Electronics and Instrumentation Support Society), 2020 - recent Member IEEE, Signal Processing Society (Institute of Electrical and Electronics Engineering), 2015 - recent

Name	Danang Lelono, S.Si, M. T., Dr.
Position	Assistant Professor
Academic career	<p>Bachelor's degree (Electronics & Instrumentation), Universitas Gadjah Mada, Indonesia, 1994.</p> <p>Master's degree (Electrical Engineering), Universitas Gadjah Mada, Indonesia, 2000.</p> <p>Doctoral degree, Universitas Gadjah Mada, Indonesia, 2017.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> Driver and Vehicle Condition Monitoring and Data Acquisition System Using AI, GPS, and IoT, 2022. Early Detection of Polymer Compound Vapors and Harmful Pollutants with Internet of Things (IoT) Based Intelligent Instruments, 2022. Deep learning Research Center strengthening with NVIDIA, 2021

	<ol style="list-style-type: none"> 4. Development of Multi-Point Water Level Monitoring System in River Flow Based on Sensor Networks and Internet of Things (IoT), 2020 -2021. 5. Optimization of Support Vector Machine with Genetic Algorithm to Improve Electronic Nose Performance in Black Tea Quality Classification, 2021 6. Development of Finger Robots for Motion Diagnosis and Support for Patients with Finger Muscle Disorders and Physiotherapists, 2020 - 2021. 7. Identification of Peat and Non-Peat Smoke based on Electronic Nose Using a Back Propagation Neural Network,2020 8. Tobacco Classification Based on Electronic Nose Using the Fuzzy-Linear Vector Quantization Method, 2020 9. Manufacture of Unmanned Aerial Vehicle (Drone) for Early Detection of Forest Fires Based on Thermal Cameras and Intelligent Sensors, 2019. 10. The electronic nose coupled with chemometric tool for discriminating the quality of black tea sample in situ, 2019 11. Development of Autopilot Flight Controller and Ground Control Station (GCS) as Unmanned Aircraft Avionics System (Drone), 2019 12. Development of Sample Heating System in Electronic Nose To Measure Black Tea Aroma, 2018 13. Radiation Data Information System and Control using Radiation Portal Monitor (RPM), 2017 14. Sample Heating Optimization on Black Tea Measurement Using Electronic Nose,2017
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1. PT Pandu Aman Sentosa (Driver and Vehicle Condition Monitoring and Data Acquisition System Using AI, GPS, and IoT), 2022. 2. PT Stechoq dan PT YPTI (Early Detection of Polymer Compound Vapors and Harmful Pollutants with Internet of Things (IoT) Based Intelligent Instruments), 2022. 3. PT Epsindo (Deep learning Research Center strengthening with NVIDIA), 2021 4. PT PGAS Telekomunikasi Nusantara (Development of Finger Robots for Motion Diagnosis and Support for Patients with Finger Muscle Disorders and Physiotherapists), 2020 - 2021. 5. PT PGAS Telekomunikasi Nusantara (Development of Multi-Point Water Level Monitoring System in River Flow Based on Sensor Networks and Internet of Things (IoT)), 2020 - 2021. 6. PT YPTI (Manufacture of Unmanned Aerial Vehicle for Early Detection of Forest Fires Based on Thermal Cameras and Intelligent Sensors), 2019. 7. BATAN, PT LEN, BAPETEN (Radiation Data Information System and Control using Radiation Portal Monitor), 2017 – 2019.
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Dehumidifier to Improve Performance of Electronic Nose System For Liquid Samples, Patent, February, 1st, 2021, Reg. Number :00201708503

	<ol style="list-style-type: none"> 2. ENose Data With Deep Learning, January, 6, 2022, Reg. Numb.: EC00202201137 3. IoT Dashboard for Monitoring Driver and Motor Vehicle Conditions, May, 19, 2022, Reg. Number: EC00202236803 4. Monitoring and Recording System of Vehicle Condition and Driver Using AI, GPS and IoT, proprietary rights, 2022 5. Remote Digital Control System (DCS) Application, proprietary rights, 2022 6. Motor Vehicle Driver Sleep Detection Application, May, 19, 2022, Proprietary rights, Registration Number: EC00202236804 7. Speed, Position and OBD Data Collection Program for Motor Vehicles, June, 28, 2022, Reg. Number: EC00202240225
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Gesang Nugroho, Andi Dharmawan, Danang Lelono, Ariesta Martiningtyas Handayani - Waypoint Tracking of a Fixed Wing UAV Using the L1 Cross Track Error Control, ICIC-ELB, 2022. 2. I MadeAgus Wirawan, Retantyo Wardoyo, Danang Lelono - The challenges of emotion recognition methods based on Electroencephalogram signals: A Literature Review, IJECE, 2022 3. R. Yosi Apriana Sari, Agung Bambang Setio Utomo, Mitrayana, Danang Lelono - Impedance Boundary Conditions on The Optimal Design of the H-Type Cylinder Resonator Using Transmission Matrix Method and Genetic Algorithm, Romanian Journal of Acoustics and Vibration, 2022 4. R. Yosi Apriana Sari, Agung Bambang Setio Utomo, Mitrayana, Danang Lelono, Supardi - Singularitas Efek Tepi dari Diskontinuitas Saluran pada Resonator Silinder Tipe H, Jurnal Sains dasar, 2022 5. Catur Atmaji, Danang Lelono, Agus Harjoko, Andi Dharmawan - The Use of Time and Frequency Features in Finger Movements Based on Electromyogram Recording, International Conference for Advancement in Technology (ICONAT), 2022. 6. Catur Atmaji, Yusuf Waraqa Santoso, Roghib Muhammad Hujja, Andi Dharmawan, Danang Lelono - Klasifikasi Gerak Jari berbasis Surface Electromyogram Otot Lengan, Indonesian Journal of Electronics and Instrumentation System (IJEIS), 2021. 7. Muhammad Auzan, Rogib Muhammad Hujja, Ridho Fuadin, Danang Lelono - Swarm Intelligence Differential Drive Wheeled Mobile Robot Autotune, International Journal on Electrical Engineering and Informatics, 2021 8. Muhammad Auzan, Rogib Muhammad Hujja, Ridho Fuadin, Danang Lelono - Path Tracking and Position Control of Nonholonomic Differential Drive Wheeled Mobile Robot, Jurnal Ilmiah Teknik Elektro Komputer dan Informatika, 2021 9. Danang Lelono, Hanif Nuradi, Muhammad Rangga Satriyo, Triyogatama W. Widodo, Andi Dharmawan, Jazi Eko Istiyanto - Comparison of Difference, Relative and Fractional Methods for Classification of The Black Tea Based on Electronic Nose, International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM), 2019.

	10. Danang Lelono, Kuwat Triyana - Suhu Pemanas Sampel Optimal Untuk Klasifikasi Teh Hitam Menggunakan Electronic Nose, IJEIS, 2019 11. Danang Lelono, Kuwat Triyana, Sri Hartati, Jazi Eko Istiyanto - Development of electronic nose with highly stable sample heater to classify quality levels of local black tea, IJASEIT, 2017
Activities in specialist bodies over the last 5 years	1. Mentor in Gadjah Mada Flying Object Research Center, 2017 – present. 2. Member of IndoCEISS (Indonesian Computer, Electronics, and Instrumentation Support Society), 2010 – present.

Name	Diyah Utami Kusumaning Putri, S.Kom., M.Sc., M.Cs.
Position	Lecturer
Academic career	Bachelor's degree, Computer Science, Universitas Gadjah Mada, Indonesia 2012-2016 Master's degree, Computer Science, Universitas Gadjah Indonesia, 2017-2019 Master's degree (Dual Degree Master Program), Computer Science, National Central University, Taiwan, 2018-2019
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	1. Development of machine learning-based portable electronic nose in determining tea quality test, 2022 2. Development of dataset and benchmark models for authorship attribution in Indonesian using various machine learning models, 2021. 3. Development of lung disease detection system through chest x-ray images using various pre-trained CNN model architectures for image classification and compare it with Capsule Network, 2021 4. Development of Tuberculosis Monitoring Application (TOMO) for Android, an application for improving drug resistant TB treatment adherence, 2020. 5. Forecasting the cumulative COVID-19 cases in Indonesia and Malaysia using Flower Pollination Algorithm (FPA) and comparing it with the Recurrent Neural Network (RNN) model, 2020 6. Researching of deep learning-based spot-welding segmentation using modified UNet with various convolutional blocks, 2020 7. Researching Javanese character recognition with various convolutional neural network (CNN) architectures and a hybrid of CNN-SVM, 2020 8. Researching machine learning and transfer learning models for several Indonesian text classification tasks using Indonesia Language Models, 2020
Industry collaborations over the last 5 years	1. Development of prototype Integrated Sensors for Tea Quality Detection (INSTeaD), PT Pagilaran, 2022 2. Smart farming application, ID FOOD, 2022 3. Welding quality inspection, PT Toyota Motor Manufacturing Indonesia, 2020.
Patents and proprietary rights	None
Important publications over the last 5 years	1. Fuad A., Herwanto G.B., Pertiwi, A.A.P, Wahyuningtyas, S.D., Harsini, H., Maula A.W., Putri, D.U.K., Probandari, A., Ahmad, R.A., 2021, Design and prototype of TOMO: an app for improving drug resistant TB treatment adherence [version1; peer review: awaiting peer review],

	<p>F1000Research 2021, vol. 983, no.10. doi: 10.12688/f1000research.67212.1</p> <ol style="list-style-type: none"> Natan, O., Putri, D.U.K., Dharmawan, A., 2021, Deep Learning-based Spot Welding Segmentation using Modified UNet with Various Convolutional Blocks, ICIC Express Letters, vol.12, no.12, pp. 1169-1176, doi: 10.24507/icicelb.12.12.1169 Putri, D.U.K., Musdholifah, A., Makhrus, F., Duong, V.H., Phuong, T. L., Chen, B.W., Wang, J.C., 2021, Facial Expression Recognition Using Sparse Complex Matrix Factorization with Ridge Term Regularization, in 2021 IEEE 10th Global Conference on Consumer Electronics (GCCE), pp.45-46, doi: 10.1109/GCCE53005.2021.9621871. Putri, D.U.K., Musdholifah, A., Makhrus, F., Duong, V.H., Phuong, T.L., Chen, B.W., Wang, J.C., 2021, Occluded Face Recognition Using Sparse Complex Matrix Factorization with Ridge Regularization," 2021 International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS), pp. 1-2, doi: 10.1109/ISPACS51563.2021.9651107. Putri, D.U.K., Musdholifah, A., Wang, J.C. 2019, Orthogonal Non-Negative Matrix Factorization using Ridge Term for Classifying Expressed Gene, in 2019 International Conference of Advanced Informatics: Concepts, Theory and Applications (ICAICTA), Yogyakarta, Indonesia.
Activities in specialist bodies over the last 5 years	<p>Member IndoCEISS (Indonesian Computer, Electronics and Instrumentation Support Society), 2020 - recent</p> <p>Member IAIS (Indonesia Artificial Intelligence Society), 2020 - recent</p>

Name	Dyah Aruming Tyas, S.Si., Dr.
Position	Lecturer
Academic career	<p>Bachelor's degree, Electronic and Instrumentation, Universitas Gadjah Mada, Indonesia, 2013.</p> <p>Doctoral degree, Computer Science, Universitas Gadjah Mada, Indonesia, 2020.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> Health Science and Technology Research (Ministry of Health). 2020. Diagnostic Test of Red Blood Cell Classifier Software For Thalassemia Minor Detection. Lecturer research grant 2021. Faculty of Math and Science, Universitas Gadjah Mada. Lecturer research grant 2021. Faculty of Math and Science, Universitas Gadjah Mada.
Industry collaborations over the last 5 years	None
Patents and proprietary rights	Erythrocyte Classification Software on peripheral Blood Smears in Thalassemia Cases (Perangkat Lunak pengklasifikasi Eritrosit Pada citra lapang pandang preparat darah kering Pada Kasus Thalassemia). Proprietary rights. 2021.
Important publications over the last 5 years	<ol style="list-style-type: none"> Morphological, Texture, and Color Feature Analysis for Erythrocyte Classification in Thalassemia Cases. Dyah Aruming Tyas, Agus

	<p>Harjoko, Sri Hartati, Tri Ratnaningsih. IEEE Access (Volume:8), 25 March 2020. Electronic ISSN: 2169-3536 DOI: 10.1109/ACCESS.2020.2983155</p> <p>2. Erythrocyte Classification using Multi-Layer Perceptron, Naïve Bayes Classifier, RBF Network and SVM. Dyah Aruming Tyas, Sri Hartati, Agus Harjoko, Tri Ratnaningsih. International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-9, Issue-2, December 2019</p> <p>3. The Classification of Abnormal Red Blood Cell on the Minor Thalassemia Case Using Artificial Neural network and Convolutional Neural Network. Dyah Aruming Tyas, Tri Ratnaningsih, Agus Harjoko, Sri Hartati. ICVIP 2017, December 27–29, 2017, Singapore, Singapore. ACM ISBN 978-1-4503-5383-0/17/12 DOI: https://doi.org/10.1145/3177404.3177438</p> <p>4. A Survey of Thalassemia Identification. Dyah Aruming Tyas, Agus Harjoko, Sri Hartati. International Journal of Advances in Science Engineering and Technology (IJASEAT). ISSN: 2321-9009, Vol-5, Iss-1, Spl. Issue-2 Feb-2017</p>
Activities in specialist bodies over the last 5 years	None

Name	Dzikri Rahadian Fudholi, S.Kom., M.Comp.
Position	Lecturer
Academic career	Bachelor's Degree (Computer Science), Universitas Gadjah Mada, Indonesia Master's Degree (Computing), The Australian National University, Australia
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Cough Detection using Deep Learning (2021) 2. Sentiment Analysis for Food Security (2022)
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	Fudholi, D. and Suominen, H., 2018, July. The importance of recommender and feedback features in a pronunciation learning aid. In Proceedings of the 5th Workshop on Natural Language Processing Techniques for Educational Applications (pp. 83-87).
Activities in specialist bodies over the last 5 years	None

Name	Edi Winarko, Drs., M.Sc. Ph.D.
Position	Associate Professor
Academic career	Bachelor's degree (Statistics), Universitas Gadjah Mada, Indonesia Master's degree (Computer Science), Queen's University, Canada. Doctoral degree (Computer Science), University of Flinders University, Australia.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Pengembangan Model Spatio-Temporal berbasis Deep Learning untuk Building Energy Management System (BEMS), 2020-2022 (3 Years). 2. Rancang Bangun Chatbot Cerdas berbasis Deep Learning untuk Custome Service di Industri Kuliner, 2020-2022 (3 Years). 3. Rancang Bangun Sistem Monitoring dan Peringatan Dini KLB Demam Berdarah Dengue Memanfaatkan Gabungan Data Cuaca dan Media Sosial Sebagai Data Masukan, 2016-2018 (2 Years). 4. Pengembangan Metode Klasifikasi Berbasis Soft Computing untuk Data Multivariate Time Series, 2016-2017 (1 Year).
Industry collaborations over the last 5 years	None
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Algoritma EightvPrime Numbers of Modified RSA (EPNR) UntukvOtentikasi Dan Distribusi Kunci Rahasia Pada Perangkat Dengan Kemampuan Komputasi Terbatas, 2021, Hak Cipta No. EC00202141654 2. Model Pengamanan Pengiriman Data Berbasis Eight Prime Numbers of Modified RSA (EPNR Algorithm) untuk Mendukung Pemantauan Radiasi Instalasi Nuklir, 2021, Hak Cipta No. EC00202201722
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. R. Gunawan, E. Winarko, and R. Pulungan, "Performance comparison of inertia weight and acceleration coefficients of BPSO in the context of high-utility itemset mining," <i>Evol. Intell.</i>, pp. 1–19, 2022. 2. A. Rahman, E. Winarko, and K. Mustofa, "Product image retrieval using category-aware siamese convolutional neural network feature," <i>J. King Saud Univ. Inf. Sci.</i>, 2022. 3. L. S. A. Dharma and E. Winarko, "Classifying Natural Disaster Tweet using a Convolutional Neural Network and BERT Embedding," in <i>2022 2nd International Conference on Information Technology and Education (ICIT&E)</i>, 2022, pp. 23–30. 4. N. T. E. Hermawan, E. Winarko, and A. Ashari, "Multi prime numbers principle to expand implementation of CRT method on RSA algorithm," in <i>AIP Conference Proceedings</i>, 2021, vol. 2331, no. 1, p. 60009. 5. R. Somya, E. Winarko, and S. Priyanta, "A Novel Approach to Collect and Analyze Market Customer Behavior Data on Online Shop," in <i>2021 2nd International Conference on Innovative and Creative Information Technology (ICITech)</i>, 2021, pp. 151–156. 6. T. G. Soares, A. Azhari, N. Rokhman, and E. Winarko, "Education Question Answering Systems: A Survey," in <i>International MultiConference of Engineers and Computer Scientists (IMECS) 2021</i>, 2021, no. IAENG.ORG.

7. N. T. E. Hermawan, E. Winarko, A. Ashari, and Y. R. Akhmad, "High Secure Initial Authentication Protocol based on EPNR Cryptosystem for Supporting Radiation Monitoring System," *Int. J. Intell. Eng. Syst.*, no. Vol. 14, No. 5, 2021.
8. A. Cherid, E. Winarko, M. Sadikin, and A. Reno, "Building Natural Language Understanding System from User Manual to Execute Office Application Functions," in *2021 1st International Conference on Computer Science and Artificial Intelligence (ICCSAI)*, 2021, vol. 1, pp. 207–212.
9. R. Gunawan, E. Winarko, and R. Pulungan, "High-Utility Association Rules Mining Based-on Binary Particle Swarm Optimization," in *International Conference on Innovation in Science and Technology (ICIST 2021)*, 2021, pp. 71–74.
10. G. A. Neruda and E. Winarko, "Traffic Event Detection from Twitter Using a Combination of CNN and BERT," in *2021 International Conference on Advanced Computer Science and Information Systems (ICACSIS)*, 2021, pp. 1–7.
11. N. T. E. Hermawan, E. Winarko, and A. Ashari, "Eight Prime Numbers of Modified RSA Algorithm Method for More Secure Single Board Computer Implementation," *Int. J. Adv. Sci. Eng. Inf. Technol.*, vol. 11, no. 6, pp. 2375–2384, 2021.
12. R. Gunawan, E. Winarko, and R. Pulungan, "A BPSO-based method for high-utility itemset mining without minimum utility threshold," *Knowledge-Based Syst.*, vol. 190, p. 105164, 2020.
13. S. Y. J. Prasetyo, K. D. Hartomo, M. C. Paseleng, D. W. Chandra, and E. Winarko, "Satellite Imagery and Machine Learning for Aridity Disaster Classification using Vegetation Indices," *Bull. Electr. Eng. Informatics*, vol. 9, no. 3, pp. 1149–1158, 2020.
14. M. N. Tentua and E. Winarko, "Applying Data Mining to Analysis of Mismatch Between Education and Labor Market in Indonesia," in *IOP Conference Series: Materials Science and Engineering*, 2020, vol. 771, no. 1, p. 12020.
15. R. Albariqi and E. Winarko, "Prediction of bitcoin price change using neural networks," in *2020 international conference on smart technology and applications (ICoSTA)*, 2020, pp. 1–4.
16. E. Rusnandi, E. Winarko, and S. N. Azhari, "A Survey on Multimodal Information Retrieval Approach," in *2020 International Conference on Smart Technology and Applications (ICoSTA)*, 2020, pp. 1–6.
17. A. I. Abdullah, E. Winarko, and A. Musdholifah, "Metode Boost-K-means untuk Clustering Puskesmas berdasarkan Persentase Bayi yang Diimunisasi," *JRST (Jurnal Ris. Sains dan Teknol.*, vol. 4, no. 2, pp. 89–96, 2020.
18. W. D. Yuniarti, E. Winarko, and A. Musdholifah, "Data Mining for Student Assessment in e-Learning: A Survey," in *2020 Fifth International Conference on Informatics and Computing (ICIC)*, 2020, pp. 1–6.

19. A. N. Cahyo, E. Winarko, and A. Musdholifah, "Survey of data mining techniques for intrusion detection systems," in 2020 Fifth International Conference on Informatics and Computing (ICIC), 2020, pp. 1–8.
20. I. Paryudi, E. Winarko, S. Priyanta, and S. R. C. Nursari, "Modeling of Personality Traits based on Demographic Data on Multi-Races Samples of Ages from 13 to 50 Years Old: Investigating the Effect of Race on Model," in 2020 6th International Conference on Science and Technology (ICST), 2020, vol. 1, pp. 1–6.
21. Indra, E. Winarko, and R. Pulungan, "Trending Topics Detection of Indonesian Tweets using BN-grams and Doc-p," *J. King Saud Univ. Inf. Sci.*, vol. 31, no. 2, pp. 266–274, 2019.
22. S. Defiyanti, E. Winarko, and S. Priyanta, "A survey of hierarchical classification algorithms with big-bang approach," in 2019 5th International Conference on Science and Technology (ICST), 2019, vol. 1, pp. 1–6.
23. R. Somya, E. Winarko, and S. Priyanta, "Data Gathering Architecture for Clickstream Data Mining on Online Shop," in 2019 5th International Conference on Science and Technology (ICST), 2019, vol. 1, pp. 1–4.
24. N. T. E. Hermawan, E. Winarko, and A. Ashari, "Securing Data Transmission for Radiation Monitoring System in Nuclear Installation," *Int. J. Comput. Appl.*, vol. 179, no. 22, pp. 32–40, 2018.
25. S. N. Huda, N. Setiani, R. Pulungan, and E. Winarko, "Potential fraudulent behaviors in e-procurement implementation in Indonesia," in *IOP Conference Series: Materials Science and Engineering*, 2017, vol. 185, no. 1, p. 12003.
26. N. Setiani, S. N. Huda, R. Pulungan, and E. Winarko, "Transformation of fraud activities in procurement system in Indonesia," in *IOP Conference Series: Materials Science and Engineering*, 2017, vol. 185, no. 1, p. 12005.
27. A. D. Rahajoe, E. Winarko, and S. Guritno, "A Hybrid Method for Multivariate Time Series Feature Selection," *Int. J. Comput. Sci. Netw. Secur.*, vol. 17, no. 3, p. 103, 2017.
28. B. Solihah, E. Winarko, S. Hartati, M. E. Wibowo, and others, "A systematic review: B-cell conformational epitope prediction from epitope characteristics view," in 2017 3rd International Conference on Science and Technology-Computer (ICST), 2017, pp. 93–98.
29. Nur. Rokhman, Edi Winarko, and others, "Accelerating yhe Outlier Detection Methods for Categorical Data by Using Matrix of Attribute Value Frequency," *J. Theor. \& Appl. Inf. Technol.*, vol. 95, no. 21, 2017.
30. A. Wibowo, E. Winarko, and Azhari, "Predicting The Road Traffic Density Based on Twitter Using The TR-P Method," *Int. J. Comput. Sci. Netw. Secur.*, vol. 17, no. 8, pp. 63–67, 2017.
31. D. Mahdiana, A. Ashari, E. Winarko, and H. Kusnanto, "A model for forecasting the number of cases and distribution pattern of Dengue

	<p>Hemorrhagic fever in Indonesia,” <i>Int. J. Adv. Comput. Sci. Appl.</i>, vol. 8, no. 11, 2017.</p> <p>32. D. Trisnawarman, S. Hartati, E. Winarko, and P. Santoso, “Improved-Node-Probability Method for Decision Making in Priority Determination of Village Development Proposed Program,” <i>Int. J. Adv. Comput. Sci. Appl.</i>, vol. 8, no. 11, pp. 60–67, 2017.</p> <p>33. A. Rahman, E. Winarko, and M. E. Wibowo, “Mobile content based image retrieval architectures,” in <i>2017 4th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI)</i>, 2017, pp. 1–4.</p> <p>34. Rusdah, E. Winarko, and R. Wardoyo, “Predicting The Suspect of New Pulmonary Tuberculosis Case using SVM, C5. 0 and Modified Moran’s I,” <i>Int. J. Comput. Sci. Netw. Secur.</i>, vol. 17, no. 12, pp. 164–171, 2017.</p> <p>35. A. E. Karyawati, E. Winarko, A. Harjoko, and others, “Ontology-based sentence extraction for answering why-question,” in <i>2017 4th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI)</i>, 2017, pp. 1–6.</p> <p>36. N. Sulistianingsih and E. Winarko, “Performance Analysis of Molecular Complex Detection in Social Network Datasets,” <i>Int. J. Comput. Appl.</i>, vol. 175, no. 4, pp. 10–15, 2017.</p> <p>37. E. Winarno, A. Harjoko, A. M. Arymurthy, and E. Winarko, “Face recognition based on symmetrical half-join method using stereo vision camera,” <i>Int. J. Electr. Comput. Eng.</i>, vol. 6, no. 6, p. 2818, 2016.</p> <p>38. A. Wijayanto and E. Winarko, “Implementation of multi-criteria collaborative filtering on cluster using Apache Spark,” in <i>2016 2nd International Conference on Science and Technology-Computer (ICST)</i>, 2016, pp. 177–181.</p> <p>39. V. R. Prasetyo and E. Winarko, “Rating of Indonesian sinetron based on public opinion in Twitter using Cosine similarity,” in <i>2016 2nd International Conference on Science and Technology-Computer (ICST)</i>, 2016, pp. 200–205.</p> <p>40. N. Rokhman, E. Winarko, and others, “WMEVF: An outlier detection methods for categorical data,” in <i>2016 International Conference on Informatics and Computing (ICIC)</i>, 2016, pp. 37–42.</p>
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Member of IEEE, 2010-2022 2. Member of ACM (Association for Computing Machinery), 2010-2021 3. Member of IAENG (International Association Enginners), 2017-2022

Name	Erwin Eko Wahyudi, S.Kom., M.Cs.
Position	Lecturer
Academic career	<p>Bachelor’s degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2017</p> <p>Master’s degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2019</p>

Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	1. Parallelization of Extreme Learning Machine, 2019 2. Apache Airflow for Automatic Data Acquisition, 2022
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	Wahyudi, E. E., Auzan, M., Dharmawan, A., Nuryanto, D., Susyanto, N., Samodra, G. and Hadmoko, D. (2022) “Akuisisi Data Prediksi Curah Hujan Secara Periodik Menggunakan Apache Airflow”, INISTA: Journal of Informatics, Information System, Software Engineering and Applications, 4(2), pp. 1-12. doi: 10.20895/inista.v4i2.574.
Activities in specialist bodies over the last 5 years	None

Name	Faizah, S.Kom., M.Kom.
Position	Lecturer
Academic career	Bachelor’s degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2002-2006. Master’s degree (Computer Science), Universitas Indonesia, Indonesia, 2009-2011.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	Soft Computing and Modelling Clinical Decision Support System (2016)
Industry collaborations over the last 5 years	System Analyst for SI E-ARNEST , BAPETEN (Nuclear Energy Regulatory Agency of Indonesia), 2017
Patents and proprietary rights	None
Important publications over the last 5 years	1. Purwarupa Sistem Pembuka Pintu Cerdas Menggunakan Perceptron Berdasarkan Prediksi Kedatangan Pemilik, IJEIS (Indonesian Journal of Electronics and Instrumentation Systems), 2017 2. Analisis dan Perancangan Interaksi Chatbot Reminder dengan User-Centered Design, Jurnal Sistem Informasi (Journal of Information System) 13 (No.2), 78-89, 2017 3. Optimasi Kendali PID menggunakan Algoritma Genetika untuk Penerbangan Quadrotor, IJEIS (Indonesian J. Electron. Instrum. Syst.) 7 (No. 2), 173-184, 2017 4. Performance of SVM and ANFIS for Classification of Malaria Parasite and Its Life-Cycle-Stages in Blood Smear, International Conference on Soft Computing in Data Science, pp 110-121, 2018 5. Designing an Intelligent Traffic Control System at UGM Campus Portal, International Journal of Advanced Research in Science, Engineering and Technology (IJARSET), 2019

Activities in specialist bodies over the last 5 years	<i>Member IndoCEISS (Indonesian Computer, Electronics and Instrumentation Support Society)</i> (2010-recent)
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Name	Faizal Makhrus, S.Kom., M.Sc., Ph.D
Position	Lecturer
Academic career	Bachelor's degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2006. Master's degree, Osmania University, India. Doctoral degree, Kanazawa University, Japan.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	Foreign Currency Prediction using Signal Grouping Technique and Genetic Algorithms (2016)
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	1. Improvement of Convolutional Neural Network Accuracy on Salak Classification Based Quality on Digital Image, IJCCS (Indonesian Journal of Computing and Cybernetics Systems), 2019. 2. Point Based Forecasting Model of Vehicle Queue with Extreme Learning Machine Method and Correlation Analysis, International Journal of Intelligent Systems and Applications(IJISA), 2021.
Activities in specialist bodies over the last 5 years	None

Name	Guntur Budi Herwanto, S. Kom., M. Cs.
Position	Assistant Professor
Academic career	Bachelor's degree (Computer Science), Universitas Gadjah Mada, Indonesia. Master's degree (Computer Science), Universitas Gadjah Mada, Indonesia.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	1. Pengembangan Mesin Penskoran Respon Soal Essai Otomatis (Automatic Scoring System), 2019 2. Meningkatkan Kualitas Sistem Surveilans Demam Berdarah Dengue Melalui Interoperabilitas Resume Medis Elektronik Dengan Aplikasi Kewaspadaan Dini Rumah Sakit Di Rsup Dr. Sardjito, 2019 3. Cross-Check Malaria Digital dan Aplikasi Pintar Pengenalan Parasit Malaria, 2018 4. Prediksi Kata Menggunakan Jaringan Syaraf Tiruan Long Short Term Memory, 2018 5. Document Clustering Dengan Latent Dirichlet Allocation Dan Ward Hierarichal Clustering, 2017

Industry collaborations over the last 5 years	None
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Hak Cipta - EC00201933425 - 2019 - ToMo: Aplikasi Monitoring Tuberkulosis Resisten Obat 2. Hak Cipta - EC00201860169 - 2018 - Framework “RESIK” Untuk Mengidentifikasi Duplikasi Data Rekam Medis 3. Hak Cipta - COA20I7OS928 - 2017 - Aplikasi QA-Malaria UGM
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Herwanto, G. B. (2022). An Intelligent Systems Approach for Supporting Privacy Awareness in Agile Software Development. In <i>REFSQ Workshops</i>. 2. Herwanto, G. B., Quirchmayr, G., & Tjoa, A. M. (2022, March). From User Stories to Data Flow Diagrams for Privacy Awareness: A Research Preview. In <i>International Working Conference on Requirements Engineering: Foundation for Software Quality</i> (pp. 148-155). Springer, Cham. 3. Herwanto, G. B., Quirchmayr, G., & Tjoa, A. M. (2021, September). A named entity recognition based approach for privacy requirements engineering. In <i>2021 IEEE 29th International Requirements Engineering Conference Workshops (REW)</i> (pp. 406-411). IEEE. 4. Herwanto, G. B., Ningtyas, A. M., Mujiyatna, I. G., Nugraha, K. E., & Trisna, I. N. P. Hate Speech Detection in Indonesian Twitter using Contextual Embedding Approach. <i>IJCCS (Indonesian Journal of Computing and Cybernetics Systems)</i>, 15(2), 177-188. 5. Ho-Quang, T., Chaudron, M. R., Robles, G., & Herwanto, G. B. (2019, May). Towards an infrastructure for empirical research into software architecture: challenges and directions. In <i>2019 IEEE/ACM 2nd International Workshop on Establishing the Community-Wide Infrastructure for Architecture-Based Software Engineering (ECASE)</i> (pp. 34-41). IEEE.
Activities in specialist bodies over the last 5 years	None

Name	I Gede Mujiyatna, S.Kom., M.Kom.
Position	Assistant Professor
Academic career	<p>Bachelor's degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2003.</p> <p>Master's degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2006.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	None
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1. Amazon Web Service and AWS Academy 2. Alibaba Cloud
Patents and proprietary rights	None

Important publications over the last 5 years	None
Activities in specialist bodies over the last 5 years	None

Name	Ika Candradewi, S.Si, M.Cs
Position	Lecturer
Academic career	Bachelor's degree (Electronics and Computer Science), Universitas Gadjah Mada, Indonesia, 2011. Master's degree (Computer Science), Universitas Gadjah Mada, Indonesia, 2015.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas GadjahMada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Implementasi Sistem Deteksi Penggunaan Masker menggunakan Multi-Task Cascaded Convolutional Networks pada Single Board Computer, 2021 2. Monocular SLAM using various feature, 2021 3. Parking Lot Detection and Vehicle Type Recognition using Deep Learning Implementation for Real Time Smart Parking System, 2020 4. Penelitian Pengembangan dan Implementasi Sistem Pengklasifikasi Daun Tembakau Pasca Panen pada PTPN X, 2020 5. Real Time Smart Parking System Using Deep Learning Implementation, 2020 6. Intelligent Traffic Monitoring and Traffic Control Systems (ITMCS) menggunakan Smart Video Sensor, 2019
Industry collaborations over the last 5 years	None
Patents and proprietary rights	Perangkat Lunak Pengklasifikasi Daun Tembakau Berdasarkan Tangga Warna, Drs. Agus Harjoko, M.Sc., Ph.D. (1) ; Prof. Dra. Sri Hartati, M.Sc., Ph.D. (2) ; Reza Pulungan (3) ; Tri Wahyu Supardi, S.Si., M.Cs. (5) ; Ika Candradewi, S.Si., M.Cs. (Patent Number : EC00201943280, 19 Juni 2019)
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Intelligent Traffic Monitoring Systems: Vehicle Type Classification Using Support Vector Machine, International Journal of Artificial Intelligence Research 5 (1), 78-90, 2021 2. Image processing approach for grading tobacco leaf based on color and quality, International Journal on Smart Sensing and Intelligent Systems, Vol.12 No. 1, pp.1-10/2019 3. Gender classification from facial images using support vector machine, Journal of Theoretical and Applied Information Technology, Vol 97 no.10 pp 2684 – 2692/2019 4. White Blood Cells and Lymphoblast Cells Segmentation using Moving K Means, Indonesian Journal of Electronics and Instrumentation Systems (IJEIS), Vol.8 No.2 pp.211- 220/2018. 5. Sistem Klasifikasi Tingkat Keparahan 2 Retinopati Diabetik Menggunakan Support Vector Machine, Indonesian Journal of Electronics and Instrumentation Systems (IJEIS), Vol.8 No.1 pp.37-48/2018 6. Intelligent Traffic Monitoring Systems: Vehicles Detection, Tracking,

	And Counting using Haar Cascade Classifier And Optical Flow, ACM International Conference Proceeding Series Proceedings of the International Conference on Video and Image Processing (ICVIP 2017), Vol.2017 No.2017 pp.49- 55/2017.
Activities in specialist bodies over the last 5 years	None

Name	Ilona Usuman, S.Si., M.Kom., Dr.
Position	Assistant Professor
Academic career	Bachelor's degree (Electronics and Instrumentation), Universitas Gadjah Mada, Indonesia Master's degree (Computer Science), Universitas Gadjah Mada, Indonesia Doctoral Degree (Electric Electronics Engineering), Sakarya University, Turkey
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Control System on Automated Car Acceleration and Braking Decision, 2019 2. Implementation of Predictive Control Model on the Feet Movement Stability on Robots, 2019 3. Car Exploration Control System during Uphill using Predictive and Fuzzy Mamdani Control Model, 2020 4. Robot Speed Control System in Disturbance Handling to Find Shortest Route using Predictive and Heuristic Algorithm Control Methods, 2020 5. Prediction of COVID-19 Cases using Artificial Intelligence, 2020 6. Needle Robot Control System as a Medical Support Tool to Decrease Human Physical Interaction, 2021 7. Development of Benchmark Dataset and Model for Authorship Attribution in Indonesian Language, 2021
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Hesti Khuzaimah Nurul Yusufiyah, Ilona Usuman, Agfianto Eko Putra, Triyogatama Wahyu Widodo, The Application of Music Therapy for Children with Autism based on Facial Recognition using Eigenface Method, 2017 2. Ilona Usuman, Widodo Prijodiprodjo, Prima Asmara Sejati, Mobile Robot Navigation on Uncertain Environment using Behaviour Based Control Approach, Indonesian Journal of Electronics and Instrumentation Systems, Vol. 9, pp. 97-106, 2019
Activities in specialist bodies over the last 5 years	None

Name	Isna Alfi Bustoni, S. T., M. Eng.
Position	Assistant Professor

Academic career	Bachelor's degree (Information Technology), Universitas Gadjah Mada, Indonesia, 2014. Master's degree (Electrical Engineering), Universitas Gadjah Mada, Indonesia, 2015.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	Multidimensional Auditory Interaction Design in matching game for visually impaired user, 2017 Fuzzy SARIMA on Automation of Bandwidth Management for Educational Institution, 2017
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	Hidayatulloh, I., & Bustoni, I. A. (2017). SARIMA-EGARCH Model To Reduce Heteroscedasticity Effects In Network Traffic Forecasting. Journal of Theoretical and Applied Information Technology, 95(3), 554.
Activities in specialist bodies over the last 5 years	None

Name	Janoe Hendarto, Drs., M.I.Kom.
Position	Assistant Professor
Academic career	Bachelor's degree, Universitas Gadjah Mada, Indonesia, 1986 Master's degree (Computer Science), Universitas Gadjah Mada, Indonesia, 1991
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	1. Denoising on Grayscale Images Using the Fractal Method, 2017 2. Contour Modeling Using Fractal Interpolation, 2018 3. Steganography Using Julia Set Fractal Image, 2019 4. Using the Image of the Julia Set as a Cover Image to Hide the Secret Image, 2020 5. Image Encryption and Decryption Using the Fractal Method, 2021
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	1. Denoising pada Citra Grayscale Menggunakan Metode Fraktal, Jurnal Produktif : Jurnal Ilmiah Pendidikan Teknologi Informasi Universitas Muhammadiyah Tasikmalaya Jawa barat, ISSN: 2548-8082, Vol 1 Edisi Juli 2017. 2. Contour Modeling Using Fractal Interpolation, Jurnal Produktif : Jurnal Ilmiah Pendidikan Teknologi Informasi Universitas Muhammadiyah Tasikmalaya Jawa barat, ISSN: 2548-8082, Vol 2 No.1 Edisi 2018 3. Steganography Using Julia Set Fractal Image, Jurnal Produktif : Jurnal Ilmiah Pendidikan Teknologi Informasi Universitas Muhammadiyah Tasikmalaya Jawa barat, ISSN: 2548-8082, Vol 3 No.2 Edisi 2019. 4. Using the Image of the Julia Set as a Cover Image to Hide the Secret Image, Jurnal Produktif : Jurnal Ilmiah Pendidikan Teknologi Informasi

	<p>Universitas Muhammadiyah Tasikmalaya Jawa barat, ISSN: 2548-8082, Vol 4 No.2 Edisi 2020.</p> <p>5. Image Encryption and Decryption Using the Fractal Method, Jurnal Produktif : Jurnal Ilmiah Pendidikan Teknologi Informasi Universitas Muhammadiyah Tasikmalaya Jawa barat, ISSN: 2548-8082, Vol 5 No.2 Edisi 2021.</p> <p>6. The Solution of Non-Linear Equations System Containing Interpolation Functions by Relaxing the Newton Method, COMTECH Binus Journal Vol. 13 No.1 Tahun 2022.</p>
Activities in specialist bodies over the last 5 years	Coach at the National Science Olympiad (OSN SMA in the informatics/programming contest) of Yogyakarta Special Region(DIY) contingent.

Name	Jazi Eko Istiyanto, Dr., M.Sc., IPU., ASEAN Eng., Prof.
Position	Professor
Academic career	Bachelor's degree (Physics), Universitas GadjahMada, 1986 Master's degree (Computer Science), University of Essex, 1988 Doctor's degree (Electronic Systems Engineering), University of Essex, 1995
Employment	Professor, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, UniversitasGadjahMada.
Research and development projects over the last 5 years	1. Censor Programming on Android Smartphone,2013 2. Study on Virtual Prototyping Development Based Development of Embedded ARM Device in the Internet of Things (IoT) era,2015
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> Supriyanto A., Istiyanto, J.E, Mustofa, K. (2019), Multi-layer framework for security and privacy based risk evaluation on E-government Istiyanto, Jazi & Riwurohi, Jan & Putra, Agfianto. (2018). People Recognition through Footstep Sound Using MFCC Extraction Method of Artificial Neural Network Back Propagation. Riyadi, E.H., Istiyanto, J.E., Putra, A.E., & Ashari, A. (2018). Assessment for Information Security Systems Based on COBIT 5 in Indonesian Nuclear Energy Regulatory Agency. International Atomic Energy Agency (IAEA): IAEA. Setianingsih, L.S, Istiyanto, J.E., Putra, A.E., Pulungan, R., & Ashari, A. (2018). Cyber Security Assessment in Supporting Nuclear Security for Nuclear Material Storage. International Atomic Energy Agency (IAEA): IAEA. Wibowo, Moh & Tjondronegoro, Dian & Chandran, V. & Pulungan, Reza & Istiyanto, Jazi. (2017). Improved Face Recognition Across Poses using Fusion of Probabilistic Latent Variable Models. TELKOMNIKA Indonesian Journal of Electrical Engineering. 15. 1976-1986. 10.12928/TELKOMNIKA.v15i4.5731. Lelono, D., Triyana, K., Hartati, S., & Istiyanto, J. E. (2017). Development of electronic nose with highly stable sample heater to

	<p>classify quality levels of local black tea. <i>Int. J. Adv. Sci. Eng. Inf. Technol</i>, 7(2), 352-358.</p> <p>7. Hardjianto, Mardi & Istiyanto, Jazi & Seno Saleh, Subanar & Putra, Agfianto. (2018). Fall Detection on Humans using Threshold Method based on Smartphone Accelerometer Data.</p> <p>8. Huizen, R. R., Istiyanto, J. E., & Putra, A. E. (2017). Identification of Voice Utterance with Aging Factor Using the Method of MFCC Multichannel. <i>arXiv preprint arXiv:1702.01999</i>.</p> <p>9. Lelono, D., Triyana, K., Hartati, S., & Istiyanto, J. E. (2016, July). Classification of Indonesia black teas based on quality by using electronic nose and principal component analysis. In <i>AIP Conference Proceedings</i> (Vol. 1755, No. 1, p. 020003). AIP Publishing.</p> <p>10. Hasbi, M., Wardoyo, R., Istiyanto, J. E., & Mustofa, K. (2016). Agent Model Development By Using Ontology In University's Archiving. <i>Journal of Theoretical and Applied Information Technology</i>, 87(3), 501.</p> <p>11. Hasbi, M., Wardoyo, R., Istiyanto, J. E., & Mustofa, K. (2016). An Agent Model using Naïve Bayesian for Email Classification. <i>International Journal of Computer Applications</i>, 140(7).</p> <p>12. Sugiantoro, B., Wardoyo, R., Hartati, S., & Istiyanto, J. E. (2017). Distributed Database Using Mobile Agent. <i>IJID International Journal on Informatics for Development</i>, 1(1).</p>
Activities in specialist bodies over the last 5 years	Head of Nuclear Energy Regulatory Agency (2015-2021)

Name	Khabib Mustofa, S.Si., M.Kom., Dr.tech
Position	Assistant Professor
Academic career	<p>Bachelor's degree, Faculty of Mathematic and Natural Sciences , Universitas Gadjah Mada, Indonesia, 1997</p> <p>Master's degree , Faculty of Mathematic and Natural Sciences , Universitas Gadjah Mada, Indonesia, 2001</p> <p>Doctoral Degree , Institute for Software Engineering and Interactive Systems, Technische Universitaet Wien , Austria, 2007</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	None
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<p>1. Arif Rahman, Edi Winarko, Khabib Mustofa, 2022, Product image retrieval using category-aware siamese convolutional neural network feature, <i>Journal of King Saud University - Computer and Information Sciences</i> vol 34(6),</p> <p>2. Galih Hendro Martono, Azhari Azhari, Khabib Mustofa, 2022, An Extended Approach of Weight Collective Influence Graph for</p>

	<p>Detection Influence Actor, International Journal of Advances in Intelligent Informatics, vol 6 (1)</p> <ol style="list-style-type: none"> 3. Abdul Karim, Azhari, Khabib Mustofa, 2022, LDSVM: Leukemia Cancer Classification Using Machine Learning, Computers, Materials & Continua, vol 71 (2) 4. Iman Paryudi, 2021, Ahmad Ashari, Khabib Mustofa, Modelling Relationship between Demographic Data and Personality Traits, Turkish Journal of Computer and Mathematics Education, vol 12 (14) 5. Iman Paryudi, 2021, Ashari, Khabib Mustofa, Creating Personality and Preference Models based on Demographic Data for Personality-based Recommender System for Fashion using DecisionTree and Association Rule, Turkish Journal of Computer and Mathematics Education, vol 12 no 14 6. Prih Haryanta, Azhari, Khabib Mustofa, 2020, Model for Measuring benefit of Government IT Investment using Fuzzy AHP, International Journal of Advanced Computer Science and Applications (IJACSA), vol 11(1) 7. Mursid Wahyu Hananto, Ahmad Ashari, Khabib Mustofa, 2019, Resource management and conversion process in multi-format distributed world WEB3D framework, Journal of Theoretical and Applied Information Technology, vol 97 (4) 8. Aji Supriyanto, Jazi Eko Istiyanto, Khabib Mustofa, 2019, Multilayer framework for security and privacy based risk evaluation on E-government, Journal of Theoretical and Applied Information Technology, vol 97 (5) 9. Hamdani, Retantyo Wardoyo, Khabib Mustofa, 2018, Weighting model for group decision support system: A review, Indonesian Journal of Electrical Engineering and Computer Science, vol 11(3) 10. Didit Suprihanto, Retantyo Wardoyo, Khabib Mustofa, 2018, Determination of weighting assessment on DREAD model using profile matching, International Journal of Advanced Computer Science and Applications, vol 9 (10) 11. Guruh Fajar Shidik, Azhari, Khabib Mustofa, K-mMA VM selection in dynamic VM consolidation for improving energy efficiency at cloud data centre, International Journal of Communication Networks and Distributed Systems, vol 21 (2) 12. Mursid Wahyu Hananto, Ahmad Ashari, Khabib Mustofa, Agus Harjoko, 2018, Increasing the detail and realism in Web3D distributed world, Jurnal Telekomnika (Telecommunication Computing Electronics and Control), vol 16 (5) 13. Ridowati Gunawan, Khabib Mustofa, 2017, Finding knowledge from Indonesian traditional medicine using semantic web rule language, International Journal of Electrical and Computer Engineering, vol 7 (6) 14. Tenia Wahyuningrum, Khabib Mustofa, 2017, A systematic mapping review of software quality measurement: Research trends, model, and method, International Journal of Electrical and Computer Engineering, vol 7 (5) 15. Hamdani, Retantyo Wardoyo, Khabib Mustofa, 2017, A method of weight update in group decision-making to accommodate the interests of all the decision makers, International Journal of Intelligent Systems and Applications, vol 9, (8)
Activities in specialist bodies over the last 5 years	None

Name	Lukman Awaludin, S.Si., M.Cs.
Position	Assistant Professor
Academic career	Diploma's degree in Electronics and Instrumentation, Universitas Gadjah Mada, 2009 Bachelor's degree in Electronics and Instrumentation, Universitas Gadjah Mada, 2012 Master's degree in Computer Science, Universitas Gadjah Mada, 2016
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	1. Driver and Vehicle Condition Monitoring and Data Acquisition System Using AI, GPS, and IoT, 2022. 2. Deep learning Research Center strengthening with NVIDIA, 2021 3. Node Sensors for Monitoring Oyo River Flow Conditions in Wunut Sriharjo, 2019
Industry collaborations over the last 5 years	1. PT Pandu Aman Sentosa (Driver and Vehicle Condition Monitoring and Data Acquisition System Using AI, GPS, and IoT), 2022. 2. PT Epsindo (Deep learning Research Center strengthening with NVIDIA), 2021
Patents and proprietary rights	1. Hak Cipta : Aplikasi Deteksi Keadaan Kantuk Pengemudi Kendaraan Bermotor, 2022 2. Hak Cipta : Dashboard IoT Pemantau Kondisi Pengemudi Dan Kendaraan Bermotor, 2022
Important publications over the last 5 years	1. Harjoko, A., Hujja, R. M., & Awaludin, L. (2017, May). Low-cost 3D surface reconstruction using Stereo camera for small object. In Signals and Systems (ICSigSys), 2017 International Conference on (pp. 285-289). IEEE. 2. Harjoko, A., Awaludin, L., & Hujja, R. M. (2017, May). The flow rate of debris estimation on the Sabo Dam area with video processing. In Signals and Systems (ICSigSys), 2017 International Conference on (pp. 57-61). IEEE. 3. L Awaludin, OA Dhewa. Low Cost Sensor Node Device for Monitoring Landslides, 2018 IJEIS (Indonesian J. Electron. Instrum. Syst 8 (2), pp. 201-210 4. Frisky, AZK., Harjoko, A., Awaludin, L., Dharmawan, A., Augoestien, NG., Candradewi, I., Hujja, RM., Putranto, A., Hartono, T., Suhartono, Y., Zambanini, S., Sablatnig, R. Registered Relief Depth (RRD) Borobudur Dataset for Single-frame Depth Prediction on one-side Artifacts, Data in Brief, 2021. 5. Frisky, AZK., Harjoko, A., Awaludin, L., Zambanini, S., Sablatnig, R. Investigation of Single Image Depth Prediction Under Different Lighting Conditions: A Case Study of Ancient Roman Coins. Journal on Computing and Cultural Heritage (JOCCH) 14 (4), pp 1-17, 2021
Activities in specialist bodies over the last 5 years	1. Region Commissioner of Information Systems and Technology, Provincial Scout Movement of Special Region of Yogyakarta 2. Member of Data and Information Technology Division, Indonesian National Sports Committee of Special Region of Yogyakarta 3. IEEE Member since 2018

Name	Lukman Heryawan, S.T., M.T., Dr.
Position	Assistant Professor

Academic career	Bachelor's degree (Informatics Engineering), STEI ITB Bandung Master's degree (Informatics Engineering), STEI ITB Bandung Doctoral degree (), Kyoto University, Japan, year
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Detection of Diabetic Retinopathy with Image Processing, 2017 2. Open DataSet Management Platform, Cloud-Based Computing Services, and Visualizations to Support Data Collection Supporting Smart Nation, 2021 3. Robust and Explainable Classification Model for Predicting the Suspect of New Pulmonary Tuberculosis, 2021 4. An Electronic Medical Records' Keywords Detection Using Supervised Learning for Supporting Medical Coding, 2021 5. Medical Subject Headings (MeSH) Indexing Using Unsupervised Learning for Low-resource Controlled Vocabulary, 2021 6. A Detection of Informal Abbreviations from Free Text Medical Notes Using Deep Learning, 2020 7. Toward Design of an Agent-based Writing Support System for the SOAP Note: A Content Analysis of the Video-based Survey, 2020 8. Web Service for Search Engine Bahasa Indonesia (SEBI), 2020 9. Agent-based Completion for Collecting Medical Note Parameters, 2019 10. Cybersecurity Testing and Analytics of Cloud Based Electronic Medical Record: A Case Study of Rekmed.Com, 2017
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1. Land and Building Tax Management Information System with P2EB in Gunung Mas, Central Kalimantan, 2021 2. Land and Building Tax Management Information System with P2EB in Tabanan, Bali, 2021 3. Land and Building Tax Management Information System with P2EB in Klaten, Central Java, 2021
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Heryawan, Lukman, and Fitra Febriansyah. "An Electronic Medical Records' Keywords Detection Using Supervised Learning for Supporting Medical Coding." In The 2021 International Conference on Computer, Control, Informatics and Its Applications, pp. 35-39. 2021. 2. Heryawan, Lukman, and Ardacandra Subiantoro. "Medical Subject Headings (MeSH) Indexing Using Unsupervised Learning for Low-resource Controlled Vocabulary." In The 2021 International Conference on Computer, Control, Informatics and Its Applications, pp. 31-34. 2021. 3. Heryawan, Lukman, Osamu Sugiyama, Goshiro Yamamoto, Purnomo Husnul Khotimah, Luciano HO Santos, Kazuya Okamoto, and Tomohiro Kuroda. "A Detection of Informal Abbreviations from Free Text Medical Notes Using Deep Learning." European Journal of Biomedical Informatics 16, no. 1 (2020). 4. Heryawan, Lukman, Purnomo Husnul Khotimah, Osamu Sugiyama, Goshiro Yamamoto, Luciano Henrique de Oliveira Santos, Angga Eko Pramono, Kazuya Okamoto, and Tomohiro Kuroda. "Toward Design of an Agent-based Writing Support System for the SOAP Note: A Content Analysis of the Video-based Survey." Advanced Biomedical Engineering 9 (2020): 146-153.

	<ol style="list-style-type: none"> Suzanti, Ika Oktavia, Yoga Dwitya Pramudita, Sigit Susanto Putro, and Lukman Heryawan. "Web Service for Search Engine Bahasa Indonesia (SEBI)." In Journal of Physics: Conference Series, vol. 1569, no. 2, p. 022087. IOP Publishing, 2020. Heryawan, Lukman, Purnomo Husnul Khotimah, Goshiro Yamamoto, Osamu Sugiyama, Shusuke Hiragi, Kazuya Okamoto, and Tomohiro Kuroda. "Agent-based Completion for Collecting Medical Note Parameters." In Proceedings of the 7th International Conference on Human-Agent Interaction, pp. 244-246. 2019. Heryawan, Lukman, Yudhistya Ngudi Insan Ksatrya, Penggalih Mahardika Herlambang, Andi Novianto, and Rani Tiyas Budiyaniti. "Cybersecurity Testing and Analytics of Cloud Based Electronic Medical Record: A Case Study of Rekmed.Com." In Forum Informatika Kesehatan Indonesia 2017. 2017. Putra, Werda Buana, and Lukman Heryawan. "Applying alpha-beta algorithm in a chess engine." Jurnal Teknosains UGM 6, no. 1 (2017): 37-43. Heryawan, Lukman. "Deteksi Dini Retinopati Diabetik dengan Pengolahan Citra Berbasis Morfologi Matematika." IJCCS (Indonesian Journal of Computing and Cybernetics Systems) 11, no. 2 (2017): 209-218.
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> Certified, Alibaba Cloud ACP (Alibaba Cloud Professional), 2022 Certified, Microsoft Azure AI fundamentals, 2022 Certified, Microsoft Azure Data fundamentals, 2022

Name	Mardhani Riasetiawan, MT, SE.Ak, CompTIA Cloud Essential., Dr.
Position	Assistant Professor
Academic career	<p>Bachelor's degree (Accounting), Faculty of Economic and Business, Universitas Gadjah Mada, Indonesia, 2003</p> <p>Master's degree (Information technology), Faculty of Engineering, Universitas Gadjah Mada, 2007</p> <p>Doctoral degree (computer science), Faculty of Mathematics and Natural Sciences, Universitas Gadjah mada, 2017</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> IoT-Based Industrial Product Tracking and Tracing System. [2022]. Development of Big Data Energy Management System for Prediction Analysis and National Production Increase (Year 3). [2022] Classification Performance Analysis Using Supervised Learning Method Against DDOS Attacks on Software Defined Networks using SFLOW Protocol. [2022]. HYPERLEDGER BLOCKCHAIN IMPLEMENTATION FOR SECURE DATA RECORD DEVELOPMENT. [2022]. Open Dataset Management Platform, Cloud-based Computing Services, and Visualization to support Smart Nation Supporting Data Collection. [2021]. Data Compression Performance Analysis with Reversible Arithmetic Coding Method on Quantum Computer. [2021].

	<ol style="list-style-type: none"> 7. Dataset Management and Management System in Big Data Environment Using Open Data Platform. [2021]. 8. Mitigation Analysis of the Spread of Covid-19 in Indonesia With Big Data Support (Continued). [2021]. 9. Development of Big Data Energy Management System for Prediction Analysis and National Production Increase (Year 2). [2021]. 10. Mitigation Analysis of the Spread of Covid-19 in Indonesia With Big Data Support. [2020]. 11. Development of Big Data Energy Management System for Prediction Analysis and National Production Increase. [2020]. 12. WEB-SCALE ARCHITECTURE IN SCALABLE NETWORK FILE SYSTEM FOR HIGH PERFORMANCE DATA COMPUTATION. [2020]. 13. DEVELOPMENT OF BIG DATA ARCHITECTURE IN DATA CENTER WITH BIG DATA COMPONENT ORCHESTRATION THROUGH SINGLE MANAGEMENT SYSTEM. [2020]. 14. Development of Learning Evaluation Artificial Intelligence for Unstructured Essay Data. [2020]. 15. Development of Automatic Essay Question Response Scoring System (Automatic Scoring System). [2019]. 16. Performance Comparative Analysis on Containers and Kubernetes Orchestration for Big Data Environment Management. [2019]. 17. Development of Cyber Physical System Architecture with IoT, Cloud and Big Data Convergence for Disaster Big Data Management. [2019]. 18. RTA - Cyber System Development with IoT, Cloud and Big Data Convergence for Disaster Big Data Processing. [2019]. 19. Operating System Development for Cluster-based Big Data Processing Platforms. [2018]. 20. Data Preservation Framework in Big Data Environment based on Open Archival Information System. [2018].
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1. Electronic Based Government Information System Master Plan Development, Yogyakarta City Government, 2022. 2. Smart City Master Plan Development, Yogyakarta City Government, 2022. 3. Corporate Data Management System, PT Pertamina Hulu Energi dan Pusat Studi Energi UGM, 2018-2019
Patents and proprietary rights	GamaBox Explorer, Hak Cipta EC00202146422,
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Data Model and Analysis for Big Data Mapping and Management in the Energy Data Platform. [2021]. 2. 360Degree Data Analysis and Visualization for COVID-19 Mitigation in Indonesia. [2021]. 3. Comparison of Hybrid Intrusion Detection System. [2020]. 4. Performance Analysis of FIFO and Round Robin Algorithm Scheduling Process in IoT Operating System for Collecting Landslide Data. [2020].

	<ol style="list-style-type: none"> 5. Automatic Extractive Text Summarization for Indonesian News Articles Using Maximal Marginal Relevance and Non-Negative Matrix Factorization. [2019]. 6. A Review of Missing Sensor Data Imputation Methods. [2019]. 7. G-Connect: Real-time Early Warning System for Landslide Data Monitoring. [2019]. 8. SISTEM SKORING OTOMATIS UNTUK DATA JAWABAN ESAI DENGAN MENGGUNAKAN PENDEKATAN KOMPUTASI: CLUSTERING DAN CONVOLUTIONAL NEURAL. [2018]. 9. The Implementation of Timestamp, Bitmap and RAKE Algorithm on Data Compression and Data Transmission from IoT to Cloud. [2018]. 10. The Architecture of Device Communication in the Internet of Things Using Inter-Integrated Circuit and Serial Peripheral Interface Method. [2018]. 11. Data Preservation Process in Big Data Environment using Open Archival Information System. [2018].
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 4. Member, International Association of Engineer, since 2013. 5. Certified, Cloud Computing Essential, CompTIA in 2013.

Name	Medi, Drs. M.Kom.
Position	Assistant Professor
Academic career	Bachelor's degree, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 1997 Master's degree, Universitas Gadjah Mada, 2002
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Performance Comparison of Support Vector Machine, Decision Tree, and K-Nearest Neighbor to Predict Group Match Results on Online Games, 2019 2. On the Accuracy of Classification Machine in Predicting Group Match Results on MOBA Games, 2020 3. Rice Harvest Prediction using Conventional Statistics and Machine Learning Methods, 2021
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	None.
Activities in specialist bodies over the last 5 years	None.

Name	Mhd. Reza Pulungan, S.Si., M.Sc., Dr.-Ing.
Position	Associate Professor

Academic career	<p>Bachelor's degree (computer science), Universitas Gadjah Mada, Indonesia, 1999</p> <p>Master's degree (telematics), University of Twente, the Netherland, 2004</p> <p>Doctoral degree (informatics), Saarland University, Germany, 2009</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Development of a protein secondary structure prediction model with deep learning and attention mechanism, Penelitian Disertasi Doktor, 2022. 2. Bayesian optimization hyperband to determine hyperparameter for gradient boosting decision tree algorithm, Penelitian Pasca DIKE, 2022. 3. Performance comparison of regular decomposition with other main clustering methods, Penelitian DIKE, 2022. 4. Formal verification of route stability on ad-hoc network protocols, Penelitian Pasca DIKE, 2021. 5. Development of video-based intelligent parking system for motorcycle parking lot, Penelitian DIKE UGM, 2021. 6. Design of public cryptography system based on artificial neural networks, Penelitian Pasca DIKE, 2020. 7. Stochastic modeling of signal pathways of T-cell receptors, Penelitian DIKE UGM, 2020. 8. Searching for distributed concurrency bugs in Ethereum by using Model Checking, Penelitian Pasca DIKE, 2019. 9. A new cache coherence scheme for integrated CPU-GPU system, Penelitian DIKE UGM, 2019. 10. Development and implementation of post-harvest tobacco leaf classification system at PTPN X, Penelitian Pengembangan Unggulan Perguruan Tinggi, Kemenristekdikti, 2018-2020. 11. An automatic system for selecting trabecular bone regions of interest in dental radiographic images for diagnostic imaging, Penelitian Pascadoktor, Kemenristekdikti, 2018-2019. 12. Online text mining framework for smart city, Penelitian DIKE UGM, 2018. 13. Performance evaluation of parallel implementations of uniformization and matrix exponential, Penelitian BOPTN UGM, 2018. 14. Intelligent augmented room to enhance effectiveness of collaboration in a room, Penelitian Terapan Unggulan Perguruan Tinggi, Kemenristekdikti, 2017-2019. 15. Implementation of syllable concatenation model from translation results aided by computer, Penelitian Pascadoktor, Kemenristekdikti, 2017-2018. 16. Counterexample generation on Dolev Yao verification method, Penelitian DIKE UGM, 2017. 17. Detection of unmoved objects for intelligent monitoring systems based on camera, Penelitian BOPTN UGM, 2017.
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Bambang Riyono, Reza Pulungan, Andi Dharmawan, Anhar Riza Antariksawan: Experimental investigation on the thermohydraulic parameters of Kartini research reactor under variation of the primary pump flow. Applied Thermal Engineering, 213, 2022.

	<ol style="list-style-type: none"> 2. Ridowati Gunawan, Edi Winarko, Reza Pulungan: Performance comparison of inertia weight and acceleration coefficients of BPSO in the context of high-utility itemset mining. <i>Evolutionary Intelligence</i>, 2022. 3. Reza Pulungan, Holger Hermanns: Fitting acyclic phase-type distributions by orthogonal distance. <i>Advances in Computational Design</i>, 2022, 7(1), 37–56. 4. Lilis Setianingsih, Reza Pulungan, Agfianto Eko Putra, Moh Edi Wibowo, Syarip: Risk Assessment Methods for Cybersecurity in Nuclear Facilities: Compliance to Regulatory Requirements. <i>International Journal of Advanced Computer Science and Applications</i>, 2021, 12(9), 714-722. 5. Anastasia Rita Widiarti, Reza Pulungan: A method for solving scriptio continua in Javanese manuscript transliteration. <i>Heliyon</i> 6 (4), e03827. 6. Ridowati Gunawan, Edi Winarko, Reza Pulungan: A BPSO-based method for high-utility itemset mining without minimum utility threshold. <i>Knowledge-Based Systems</i> 190, 105164. 7. Pande Nyoman Ariyuda Semadi, Reza Pulungan: Improving learning vector quantization using data reduction. <i>International Journal of Advances in Intelligent Informatics</i> 5 (3), 218-229. 8. Agus Harjoko, Adi Prahara, Tri Wahyu Supardi, Ika Candradewi, Reza Pulungan, Sri Hartati: Image processing approach for grading tobacco leaf based on color and quality. <i>International Journal on Smart Sensing & Intelligent Systems</i> 12(1):1-10. 9. Enny Itje Sela, Reza Pulungan, Rini Widyaningrum, Rurie Ratna Shantiningsih: Method for Automated Selection of the Trabecular Area in Digital Periapical Radiographic Images Using Morphological Operations. <i>Healthcare Informatics Research</i> 07/2019; 25(3):193., DOI:10.4258/hir.2019.25.3.193 10. Anindita Septiarini, Agus Harjoko, Reza Pulungan, Retno Ekantini: Automated Detection of Retinal Nerve Fiber Layer by Texture-Based Analysis for Glaucoma Evaluation. <i>Healthcare Informatics Research</i> 10/2018; 24(4):335., DOI:10.4258/hir.2018.24.4.335 11. Anindita Septiarini, Agus Harjoko, Reza Pulungan, Retno Ekantini: Automatic detection of peripapillary atrophy in retinal fundus images using statistical features. <i>Biomedical Signal Processing and Control</i> 06/2018; 45., DOI:10.1016/j.bspc.2018.05.028 12. R. Pulungan, H. Hermanns: Transient analysis of CTMCs: Uniformization or matrix exponential?. <i>IAENG International Journal of Computer Science</i> 05/2018; 45(2):267-274. 13. Muhamad Radzi Rathomi, Reza Pulungan: A coarse-grained parallelization of genetic algorithms. <i>IJAIN</i> 04/2018; 4(1):1., DOI:10.26555/ijain.v4i1.137 14. Indra, Edi Winarko, Reza Pulungan: Trending Topics Detection of Indonesian Tweets Using BN-grams and Doc-p. <i>Journal of King Saud University - Computer and Information Sciences</i>, 01/2018; 31(2)., DOI:10.1016/j.jksuci.2018.01.005 15. Ardhi Wiratama Baskara Yudha, Reza Pulungan, Henry Hoffmann and Yan Solihin: A Simple Cache Coherence Scheme for Integrated CPU-GPU Systems. <i>2020 57th ACM/IEEE Design Automation Conference (DAC)</i>, San Francisco, CA, USA, 2020, pp. 1-6, doi: 10.1109/DAC18072.2020.9218664.
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	<p>16. Juan Rizky Mannuel Ledoh, Reza Pulungan: Parallelization of Padé Approximation of Matrix Exponential with CUDA-Aware MPI. 2019 5th International Conference on Science and Technology (ICST) 1, 1-6.</p> <p>17. Lia Farhatuaini, Reza Pulungan: Parallelization of Uniformization Algorithm with CUDA-Aware MPI. 2019 7th International Conference on Information and Communication Technology (ICoICT); 07/2019, DOI:10.1109/ICoICT.2019.8835260</p> <p>18. Enny Itje Sela, Reza Pulungan: Osteoporosis identification based on the validated trabecular area on digital dental radiographic images. Procedia Computer Science 01/2019; 157:282-289., DOI:10.1016/j.procs.2019.08.168</p> <p>19. Inez Fiona Sutanto, Reza Pulungan: An Improved Implementation of Discretization Algorithm for Markov Reward Models. 4th International Conference on Science and Technology (ICST), Yogyakarta; 11/2018, DOI:10.1109/ICSTC.2018.8528616</p> <p>20. Anindita Septiarini, Reza Pulungan, Agus Harjoko, Retno Ekantini: Peripapillary Atrophy Detection in Fundus Images Based on Sectors with Scan Lines Approach. 2018 Third International Conference on Informatics and Computing (ICIC); 10/2018, DOI:10.1109/IAC.2018.8780490</p> <p>21. A R Widiarti, R Pulungan, A Harjoko, Marsono, S Hartati: A proposed model for Javanese manuscript images transliteration. Journal of Physics Conference Series 09/2018; 1098:012014., DOI:10.1088/1742-6596/1098/1/012014</p> <p>22. Erwin Eko Wahyudi, Reza Pulungan: Counterexample Generation for Ping-Pong Protocols Security Checking Algorithm. 2018 6th International Conference on Information and Communication Technology (ICoICT); 05/2018, DOI:10.1109/ICoICT.2018.8528754</p> <p>23. M. Ridwan Apriansyah Budikafa, Reza Pulungan: Parallelization of modular exponentiations of polynomials. 2017 3rd International Conference on Science and Technology - Computer(ICST); 07/2017, DOI:10.1109/ICSTC.2017.8011863</p> <p>24. Eko Dwi Nugroho, Moh Edi Wibowo, Reza Pulungan: Parallel implementation of genetic algorithm for searching optimal parameters of artificial neural networks. 2017 3rd International Conference on Science and Technology - Computer(ICST); 07/2017, DOI:10.1109/ICSTC.2017.8011867</p>
Activities in specialist bodies over the last 5 years	None.

Name	Moh Edi Wibowo, S.Kom., M.Kom, Ph.D.
Position	Assistant Professor
Academic career	<p>Bachelor's degree, Computer Science, Faculty of Mathematics and Natural Sciences, Gadjah Mada University (UGM), Indonesia, 2004</p> <p>Master's degree, Computer Science, Faculty of Mathematics and Natural Sciences, Gadjah Mada University (UGM), Indonesia, 2006</p> <p>Doctoral degree, Computer Vision and Pattern Recognition, Queensland University of Technology, Australia</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University
Research and	1. Evaluation of Probabilistic Kernel Discriminant Analysis on Large

development projects over the last 5 years	<p>Datasets, 2022</p> <ol style="list-style-type: none"> 2. Construction of Convolutional Neural Networks Without Backpropagation Using Sequential Regression Approach, 2022 3. Development of Intelligent Monitoring System for Human Tracking on Multiple Cameras, 2021 4. Dependable High Performance Computing with Fault Prediction and Fault Avoidance, 2021 5. Comparison of Text Features Obtained from Convolutional, Recurrent, and Siamese Neural Networks for Automated Essay Scoring, 2021 6. Comparison of Kernels and Stochasticities in Probabilistic Discriminant Analysis for Face Recognition in Video, 2021 7. Robust and Explainable Classification Model for Predicting the Suspect of New Pulmonary Tuberculosis, 2021 8. Patterns of Consumption of Creative Economy Products of Millennial Travelers in the Digital Age, 2020 9. Mixture of Probabilistic Discriminant Analysis for Image Set Modeling on Video-Based Face Classification, 2020 10. Development of Variational Auto-Encoder for Non-Linear Latent Variable Model in Video-Based Face Classification, 2020 11. Combined Recurrent and Siamese Neural Networks for Automatic Essay Scoring, 2020 12. Set Representations based on Probabilistic Discriminant Analysis on Gaussian Distributions for Classification of Image Sets, 2019 13. Greedy Training of Convolutional Neural Networks in the Frequency Domain for Aerial Image Segmentation, 2019 14. Development of Monitoring and Early Warning System for Dengue Hemorrhagic Fever Outbreaks Using Combined Weather and Social Media Data, 2018 15. Probabilistic Embedding and Discriminatory Representations of Gaussian Distributions on Riemannian Manifold for Classification of Image Sets, 2018
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Periapical Radiograph Texture Features for Osteoporosis Detection Using Deep Convolutional Neural Network, 2022 2. Classification of Plasmodium Falciparum based on Textural and Morphological Features, 2022 3. Improvement of Deep Learning-Based Human Detection Using Dynamic Thresholding for Intelligent Surveillance Systems, 2021 4. Risk Assessment Methods for Cybersecurity in Nuclear Facilities: Compliance to Regulatory Requirements, 2021 5. Key-Point Based License Plate Detection Using Fully Convolutional Neural Networks, 2022 6. Malaria Classification Using Convolutional Neural Network: A Review, 2021 7. Human Face Detection and Tracking Using RetinaFace Network for Surveillance Systems, 2021 8. Sarcasm Detection of Tweets in Indonesian Language Using Long Short-Term Memory, 2021 9. Buy or Bye? Indonesian Millennials Tourists' Motives and Consumption Patterns, 2020
Activities in specialist	None

bodies over the last 5 years	
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Name	Muhammad Alfian Amrizal, B.Eng., M.I.S., Ph.D.
Position	Lecturer
Academic career	Bachelor's degree, School of Engineering, Tohoku University, Japan, 2012 Master's degree, Graduate School of Information Sciences, Tohoku University, Japan, 2014 Doctoral degree, Graduate School of Information Sciences, Tohoku University, Japan, 2017
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Dependable High Performance Computing with Fault Prediction and Fault Avoidance, 2021 2. Manajemen Power State pada Cluster HPC Menggunakan Reinforcement Learning, 2022 3. Investigasi Potensi ARU-Net sebagai Arsitektur Dasar untuk Memprediksi Kerusakan Jalan, 2022
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Muhammad Alfian Amrizal, Atsuya Uno, Yukinori Sato, Hiroyuki Takizawa, Hiroaki Kobayashi. Energy-Performance Modeling of Speculative Checkpointing for Exascale Systems. <i>IEICE Transactions on Information and Systems</i>, Vol. E100-D, No. 12, pp. 2749-2760, 2017. 2. Muhammad Alfian Amrizal and Hiroyuki Takizawa. Optimizing Energy Consumption on HPC Systems with a Multi-level Checkpointing Mechanism. In the <i>2017 International Conference on Networking, Architecture, and Storage (NAS)</i>, pp. 1-9, Shenzhen, China, August 2017. 3. Muhammad Alfian Amrizal, Pei Li, Mulya Agung, Ryusuke Egawa, Hiroyuki Takizawa. A Failure Prediction-based Adaptive Checkpointing Method with Less Reliance on Temperature Monitoring for HPC Applications. In the <i>2018 IEEE International Conference on Cluster Computing (CLUSTER)</i>, pp. 515-523, Belfast, UK, September 2018. 4. Muhammad Alfian Amrizal, Mulya Agung, Ryusuke Egawa, Hiroyuki Takizawa. An Energy Optimization Method for Hybrid In-Memory Checkpointing. In the <i>2019 IEEE Symposium in Low-Power and High-Speed Chips (COOL CHIPS)</i>, pp. 1-2, Yokohama, Japan, April 2019. (Reviewed poster – Best Poster Award). 5. Mulya Agung, Muhammad Alfian Amrizal, Steven Bogaerts, Ryusuke Egawa, Daniel A. Ellsworth, Jorge Fernandez-Fabeiro, Arturo Gonzalez-Escribano, Sukhamay Kundu, Alina Lazar, Allen Malony, Hiroyuki Takizawa, David P. Bunde. Peachy Parallel Assignments (EduHPC 2019). In the <i>2019 IEEE/ACM Workshop on Education for High-Performance Computing (EduHPC)</i>, pp. 75-83, Denver, CO, USA, November 2019. 6. Mulya Agung, Muhammad Alfian Amrizal, Ryusuke Egawa, Hiroyuki Takizawa. DeLoc: A Locality and Memory Congestion-aware Task Mapping Method for Modern NUMA Systems. <i>IEEE Access</i>, Vol. 8, pp.

	<p>6937-6953, 2020.</p> <p>7. Mulya Agung, Muhammad Alfian Amrizal, Ryusuke Egawa, Hiroyuki Takizawa. Online MPI Process Mapping for Coordinating Locality and Memory Congestion on NUMA Systems. <i>Supercomputing Frontiers and Innovations</i>, Vol. 7, No. 1, pp. 71-90, 2020.</p> <p>8. Bo Chen, Muhammad Alfian Amrizal, Satoru Izumi, Toru Abe, Takuo Suganuma. Improving the Efficiency in Multiple Object Tracking by Tracker Switching According to Occlusion States. <i>Journal of Information Processing</i>, Vol. 29, pp. 717-724, 2021.</p>
Activities in specialist bodies over the last 5 years	None

Name	Muhammad Auzan, S.Si., M.Cs.
Position	Lecturer
Academic career	<p>Bachelor's degree, Electrical and Electronics Engineering, Faculty of Engineering, Gadjah Mada University (UGM), 2013 - 2017</p> <p>Master's degree, Computer Science, Faculty of Mathematics and Natural Sciences, Gadjah Mada University (UGM), Indonesia, 2018 - 2022</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Path Planning and Control of Nonholonomic Differential Drive Wheeled Mobile Robot 2. Internet of Things in Smart Farming System 3. Walking Stability Control System on Humanoid 4. Package Fall Classification
Industry collaborations over the last 5 years	1. Industrial Digital TWINN with PT. Stechoq Robotika Indonesia
Patents and proprietary rights	<ol style="list-style-type: none"> 1. HKI : Aplikasi Remote Digital Control System (DCS) 2. HKI : Aplikasi Deteksi Keadaan Kantuk Pengemudi Kendaraan Bermotor 3. HKI : Dashboard IoT Pemantau Kondisi Pengemudi Dan Kendaraan Bermotor
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Akuisisi Data Prediksi Curah Hujan Secara Periodik Menggunakan Apache Airflow, 2022 2. Path Tracking and Position Control of Nonholonomic Differential Drive Wheeled Mobile Robot, 2021 3. Independent Soil Node Sensor Prototype as Part of Smart Farming System, 2020 4. Walking Stability Control System on Humanoid When Turning Based on LQR Method, 2019
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Gadjah Mada Robotic Team Supervisor, since 2022 2. IISMA Information and Technology Supervisor, since 2022

Name	Muhammad Idham Ananta Timur, ST. M.Kom
Position	Assistant Professor
Academic career	<p>Bachelor's degree, Electrical and Electronics Engineering, Faculty of Engineering, Gadjah Mada University (UGM), 2000</p> <p>Master's degree, Computer Science, Faculty of Mathematics and Natural Sciences, Gadjah Mada University (UGM), Indonesia, 2004</p>

Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. End-to-end Deep Reinforcement Learning Self-Driving Car 2. Intelligent Traffic Signal Controller Systems
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Muhammad Idham Ananta Timur, Jazi Eko Istiyanto, Andi Dharmawan, Rois Nur Hakim, Ahmad Shiddiq Deep Q-Network Configuration and Performance for a Power Line Inspection Autonomous Quadrotor in a Simulated World, ICIC-ELB, 2021 2. Muhammad Idham Ananta Timur, Jazi Eko Istiyanto, Andi Dharmawan, Beatrice Paulina Setiadi, Single Camera Data Augmentation in End-to-end Deep Learning Simulated Self Driving Car, ICIC-ELB, 2022
Activities in specialist bodies over the last 5 years	None

Name	Nia Gella Augoestien, S.Si, M.Cs
Position	Assistant Professor
Academic career	Bachelor's degree (Electronics and Instrumentation), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia Master's degree (Computer Science), Universitas Gadjah Mada
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Optimization of Hardware Resource Utilization in AES (1-round) Cryptography Algorithm on FPGA 2. CRC (Cyclic Redundancy Check) Generator Circuit Implementation on FPGA (Field Programmable Gate Array) 3. Approximate Computing Based Multiplier Circuit on FPGA (Field Programmable Gate Array) 4. Obfuscation Techniques for Security FPGA-Based System
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Augoestien, NG, Aditya R, Implementasi Rangkaian CRC (Cyclic Redundancy Check) Generator pada FPGA (Field Programmable Gate Array). Indonesian Journal of Electronics and Instrumentation Systems, Vol. 9 No. 1, pp 65 - 74, 2019 2. Kurniasari E, Putra AE and Augoestien, NG, "Implementation of the Montgomery Modular based RSA Algorithm on FPGA," 2019 5th International Conference on Science and Technology (ICST), 2019, pp. 1-4
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Member of IndoCEISS (Indonesian Computer, Electronics, and Instrumentation Support Society), 2014 - 2021.

Name	Nur Achmad Sulistyo Putro, S.Si., M.Cs.
Position	Assistant Professor
Academic career	Bachelor's degree (Electronics and Instrumentation), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia Master's degree (Computer Science), Universitas Gadjah Mada
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Deep learning for time series data: Model development and implementation. ex: EMG, E-nose, EEG. 2. Robotics control system 3. Ergonomic in agro-industry 4. Internet of Things implementation
Industry collaborations over the last 5 years	None
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Pesawat Tanpa Awak dengan Kemampuan Amphibi untuk Analisis Potensi Maritim dan Bencana Alam (in English: Unmanned Aircraft with Amphibious Capability for Analysis of Maritime Potential and Natural Disasters), Indonesian Patent (granted), certificate number: IDP000061224. 2. Aplikasi Menstrual Cycle Book (in English: Menstrual Cycle Book Application), Indonesian Copyrights, certificate number: EC00202016571. 3. KESAN (Kansei Engineering-based System For Agro-industry) untuk Android (in English: KESAN (Kansei Engineering-based System For Agro-industry) for Android), Indonesian Copyrights, certificate number: EC00201979976. 4. KESAN (Kansei Engineering-based System For Agro-industry) untuk Desktop (in English: KESAN (Kansei Engineering-based System For Agro-industry) for Desktop), Indonesian Copyrights, certificate number: EC00201979977. 5. Sistem Penilaian Ergonomi pada Proses Produksi Pangan (in English: Ergonomic Assessment System in Food Production Process), Indonesian Patent (on Process), registration number: P00201804325. 6. Pendeteksi Kualitas Fisik Cabai (in English: Chili Physical Quality Detector), Indonesian Copyrights, certificate number: EC00201853548.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. A. D. Guritno, M. Ushada, N. E. Kristanti, M. S. Dharmawati, N. A. S. Putro, 2021, Development of Quality Evaluation Model for Supply Chain of Capture Fisheries in Southern Coast of Java, Agricultural Engineering International: CIGR Journal, Vol. 23, No. 4. 2. M. Ushada, N. A. S. Putro, T. Wijayanto, F. Trapsilawati, N. Khuriyati, 2020, Development of Kansei Engineering-based System for Agro-industry (KESAN) for Worker Trust Assessment in Food Small Medium-sized Enterprises, Engineering in Agriculture, Environment and Food, Volume 13, Issue 2, pp. 49-59. 3. M. Ushada, N. A. S. Putro, N. Khuriyati, 2019, An Intelligent Incentive Model Based on Environmental Ergonomics for Food SMEs, Journal of Engineering and Technological Sciences, Vol. 51, No. 6. 4. M. Riassetiawan, B. N. Prastowo, N. A. S. Putro, O. A. Dhewa and F. Y. Baktiar, 2019, G-Connect: Real-Time Early Warning System for Landslide Data Monitoring, 6th International Conference on Instrumentation, Control, and Automation (ICA), Bandung, Indonesia,

	<p>pp. 127-130.</p> <ol style="list-style-type: none"> 5. N. A. S. Putro, C. Atmaji, K. Devianto, Z. Y. Perwira, 2019, Peningkatan Skalabilitas Mini Weather Station Portable berbasis Internet of Things, Indonesian Journal of Electronics and Instrumentation Systems, Vol. 9, No. 2. 6. B. N. Prastowo, N. A. S. Putro, O. A. Dhewa, 2019, PLO User Interfacebased onTelegram Bot, Indonesian Journal of Computing and Cybernetics Systems, Vol. 13, No. 1. 7. B. N. Prastowo, N. A. S. Putro, O. A. Dhewa, A. M. H. Yusuf, 2019, Pengenalan Personal Menggunakan Citra Tampak Atas pada Lingkungan Cashierless Store, Jurnal Buana Informatika, Vol. 10, No. 1. 8. N. A. S. Putro, A. Dharmawan dan T. K. Priyambodo, 2017, Quadrotor Control System with Hand Movement Sign as an Alternative Remote Control, International Journal of Robotics and Automation, Vol. 6, No. 2.
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Supervisor in Gajah Mada Robotic Team, 2019 – 2021. 2. Supervisor in Gajah Mada Flying Object Research Center, 2019 - 2021. 3. Member of IEEE, 2019 – 2021. 4. Member of IndoCEISS (Indonesian Computer, Electronics, and Instrumentation Support Society), 2019 - 2021.

Name	Nur Rokhman, S.Si., M.Kom., Dr.
Position	Associate Professor
Academic career	<p>Bachelor's degree, Computer Science, Faculty of Mathematics and Natural Sciences, Gajah Mada University (UGM), Indonesia, 1993</p> <p>Master's degree, Computer Science, Faculty of Mathematics and Natural Sciences, Gajah Mada University (UGM), Indonesia, 2004</p> <p>Doctoral degree, Computer Science, Faculty of Mathematics and Natural Sciences, Gajah Mada University (UGM), Indonesia</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Gajah Mada University
Research and development projects over the last 5 years	None
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Intelligent Tutoring Systems Authoring Tools For Nonprogrammer Authors: A Systematic Review 2. The Solution of Non-Linear Equations System Containing Interpolation Functions by Relaxing the Newton Method. https://journal.binus.ac.id/index.php/comtech/article/view/7322/4477 3. Anomaly Detection in Hospital Claims Using K-Means and Linear Regression2. https://jurnal.ugm.ac.id/ijccs/article/view/68160/32409 4. The Specific Factors Influencing The Intention Of Electronic Government Services For Libyans. https://turcomat.org/index.php/turkbilmat/article/view/5286/4423 5. Case-Based Reasoning Using The Nearest Neighbor Method For

	<p>Detection Of Equipment Damage To PLN Power Plant. https://jurnal.ugm.ac.id/ijccs/article/view/57434/29698</p> <p>6. Segmentation-Based Sequential Rules For Product Promotion Recommendations As Sales Strategy (Case Study: Dayra Store). https://jurnal.ugm.ac.id/ijccs/article/view/58107/28361</p> <p>7. Penerapan Sistem Data Cleansing untuk Mencegah dan Menghilangkan Duplikasi Rekam Medis. https://jurnal.ugm.ac.id/jpkm/article/view/51073/31415</p> <p>8. Analysis of Emoticon and Sarcasm Effect on Sentiment Analysis of Indonesian Language on Twitter. https://e-journal.unair.ac.id/JISEBI/article/view/12101/8497</p> <p>9. Classification of Tangerine (Citrus Reticulata Blanco) Quality Using Combination of GLCM, HSV, and K-NN. https://jurnal.ugm.ac.id/ijccs/article/view/47906/26042</p> <p>10. System Security Awareness Planning Model Using The Octave Method Approach. https://jurnal.ugm.ac.id/ijccs/article/view/43922/25076</p> <p>11. Detection Of Spam Comments On Instagram Using Complementary Naïve Bayes. https://jurnal.ugm.ac.id/ijccs/article/view/47046/25085</p> <p>12. A Survey on Mixed-Attribute OutlierDetection Methods. https://journal.binus.ac.id/index.php/commit/article/view/5558/3579</p> <p>13. The MapReduce Model on Cascading Platform for Frequent Itemset Mining. https://jurnal.ugm.ac.id/ijccs/article/view/34102/21762</p> <p>14. Evaluasi Pencapaian Kompetensi Perkam Medis Dan Informasi Kesehatan Di Rumah Sakit Kota Yogyakarta Berdasarkan Metode Self Assessment. https://jurnal.ugm.ac.id/jkesvo/article/view/29594</p> <p>15. Telaah Input Data Sistem Informasi Kesehatan di Puskesmas Gondokusuman II Kota Yogyakarta. https://jurnal.ugm.ac.id/jkesvo/article/view/34249</p> <p>16. Accelerating The Outlier Detection Methods For Categorical Data By Using Matrix Of Attribute Value Frequency. http://www.jatit.org/volumes/Vol95No21/3Vol95No21.pdf</p> <p>17. Pengembangan Output Sistem Perhitungan Angka Kredit Petugas Rekam Medis di RSUD Kabupaten Karanganyar. https://jurnal.ugm.ac.id/jkesvo/article/view/27574/16882</p> <p>18. Pengembangan Input Sistem Informasi Kesehatan Ibu dan Anak Berbasis Web di RSKIA Bhakti Ibu Yogyakarta. https://jurnal.ugm.ac.id/jkesvo/issue/view/2985</p> <p>19. Implementasi Paradigma Pendidikan Vokasional pada Program Studi Rekam Medis dan Informasi Kesehatan Universitas Gadjah Mada. https://jurnal.ugm.ac.id/jkesvo/issue/view/3132</p>
Activities in specialist bodies over the last 5 years	None

Name	Oskar Natan, S.ST., M.Tr.T.
Position	Lecturer
Academic career	<p>Bachelor's degree (Electronics Engineering), Politeknik Elektronika Negeri Surabaya, Indonesia, 2017.</p> <p>Master's degree (Electrical Engineering), Politeknik Elektronika Negeri Surabaya, Indonesia, 2019.</p>

Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Weld spot detection to support industry 4.0, 2020. 2. Semantic elevation mapping for a self-driving vehicle, 2021. 3. Runway segmentation to support unmanned aerial vehicle, 2022.
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 4. Welding quality inspection, PT Toyota Motor Manufacturing Indonesia, 2020. 5. Semantic elevation mapping for a self-driving vehicle, Honda R&D co., ltd. Japan, 2021.
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. O. Natan and J. Miura, "End-to-end Autonomous Driving with Semantic Depth Cloud Mapping and Multi-agent," IEEE Transactions on Intelligent Vehicles, Jun. 2022. 2. O. Natan and J. Miura, "Towards Compact Autonomous Driving Perception with Balanced Learning and Multi-sensor Fusion," IEEE Transactions on Intelligent Transportation Systems, Feb. 2022. 3. O. Natan, D. U. K. Putri, A. Dharmawan, "Deep Learning-Based Weld Spot Segmentation Using Modified UNet with Various Convolutional Blocks," ICIC Express Letters Part B: Applications, Vol. 12, No. 12, pp. 1169-1176, Dec. 2021. 4. O. Natan and J. Miura, "Semantic Segmentation and Depth Estimation with RGB and DVS Sensor Fusion for Multi-view Driving Perception," in Proceeding of The Asian Conference on Pattern Recognition. Springer Lecture Notes in Computer Science: Pattern Recognition, vol. 13188, pp. 352-365, Jeju, South Korea, Nov. 2021.
Activities in specialist bodies over the last 5 years	None

Name	Raden Sumiharto, S.Si., M.Kom., Dr.
Position	Assistant Professor
Academic career	<p>Bachelor's degree, Physics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University (UGM), Indonesia, 2002</p> <p>Master's degree, Computer Science, Faculty of Mathematics and Natural Sciences, Gadjah Mada University (UGM), Indonesia, 2007</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Unification Method of Aerial Image with Feature Point Reduction Method, 2017 2. Measurement Methods for Nutrients Contents (NPK) using Feature SURF Method, 2019 3. Measurement Methods for Nutrients Contents (NPK) using Feature FAST Method, 2019 4. Measurement Methods for Nutrient Contents (NPK) using Convolutional Neural Networks and Cluster Region, 2020 5. Measurement Methods for Nutrient Contents (NPK) using Convolutional Neural Networks and Support Vector Regression, 2020 6. Smart Chamber for Orchid Cultivation based on IOT and Fuzzy PID Control Systems, 2021 7. Improvement of Hand Gesture Recognition in Low Intensity Light using Retinex Methods, 2021

Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Made Santo Gitakarma, Tri Kuntoro Priyambodo, Yohanes Suyanto, Raden Sumiharto, A Proposed Multi-hop Dynamic Multi-Zone LEACH Protocol to Extend Network Lifetime in Wireless Sensor Network, International Conference on Innovation in Science and Technology (ICIST), pp. 54-161, 2021 2. Bagaskara Ilham Abadi, Raden Sumiharto, Classification of Rainfall using Neuro-Fuzzy Systems using Weather Radar Images, Indonesian Journal of Electronics and Instrumentation Systems, Vol. 11, Issue 1, pp. 49-60, 2021 3. Made Santo Gitakarma, Tri Kuntoro Priyambodo, Yohanes Suyanto, Raden Sumiharto, Architectures, Frameworks, and Applications in IoT-based Smart Environment: A Review, Journal of Physics: Conference Series, Vol. 1810, Issue 1, pp. 012007, 2021 4. Made Santo Gitakarma, Tri Kuntoro Priyambodo, Yohanes Suyanto, Raden Sumiharto, Danur Wijayanto, 3rd International Seminar on Research of Information Technology and Intelligent Systems (ISRITI), pp. 221-226, 2020 5. Raden Sumiharto, Ristya Ginanjar Putra, Samuel Demetouw, Methods for Determining Nitrogen, Phosphorus, and Potassium (NPK) Nutrient Content using Scale-Invariant Feature Transform (SIFT), 8th International Conference on Information and Communication Technology (ICoICT), pp. 1-4, 2020 6. Raden Sumiharto, Ristya Ginanjar Putra, Samuel Demetouw, Methods for Determining Nitrogen, Phosphorus, and Potassium (NPK) Nutrient Content Using Features from Accelerated Segment Test (FAST), International Journal of Computer Science and Software Engineering, Vol. 9, Issue 1, pp. 1-5, 2020 7. Hera Nirwati, Dwi Aris Agung Nugrahaningsih, Siswanto Siswanto, Mahatma Sotya Bawono, Titien Budhiaty, Setyawan Bektu Wibowo, Raden Sumiharto, The development of GAMA Swab sampling chamber for walk-through sampling in patients with COVID-19 at Gadjah Mada Hospital, Journal of Community Empowerment for Health, Vol. 3, Issue 2, pp. 94-101, 2020 8. Muhammad Miftahul Amri, Raden Sumiharto, Sistem Pengukuran Nitrogen, Fosfor, Kalium Dengan Local Binary Pattern Dan Analisis Regresi, Indonesian Journal of Electronics and Instrumentation Systems, Vol. 9, Issue 2, pp.107-118, 2019 9. Phisca Aditya Rosyady, Raden Sumiharto, Highway Visual Tracking System using Thresholding and Hough Transform, Jurnal Ilmiah Teknik Elektro Komputer dan Informatika, Vol. 4, Issue 2, pp. 93-99, 2018 10. Raden Sumiharto, Reynaldy Hardiyanto, NPK soil nutrient measurement prototype based on local binary pattern and back-propagation, IEEE International Conference on Internet of Things and Intelligence System (IOTAIS), pp. 23-28, 2018 11. Fredy Aga Nugroho, Raden Sumiharto, Roghib Muhammad Hujja, Pengembangan Sistem Ground Control Station Berbasis Internet Webserver pada Pesawat Tanpa Awak, Indonesian Journal of Electronics and Instrumentation Systems (IJEIS), Vol. 8, Issue 1, pp. 1-12, 2018

	<p>12. Roghib Muhammad Hujja, Raden Sumiharto, W Setyawan Bekti, Realtime operating system implementation on AVR XMEGA for unmanned aerial vehicle autopilot, International Journal of Advanced Research in Science, Engineering, and Technology, Vol. 5, Issue 5, pp. 5762-5768, 2018</p> <p>13. Zaki Hamizan, Raden Sumiharto, Sistem Pentautan Citra Udara Menggunakan Algoritme SURF dan Metode Reduksi Data, Indonesian Journal of Electronics and Instrumentation Systems (IJEIS), Vol. 7, Issue 2, pp. 127, 2017</p>
Activities in specialist bodies over the last 5 years	

Name	Retantyo Wardoyo, Drs., M.Sc., Ph.D.
Position	Associate Professor
Academic career	<p>Bachelor's degree (Mathematics), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 1982</p> <p>Master's degree (Computer Science), University of Manchester, 1990</p> <p>Doctoral degree, (Computation), University of manchester Institute of Science and Technology, 1996</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Dependable High Performance Computing With Fault Prediction and Fault Avoidance (2021) 2. Klasifikasi Tali Pusat Janin Berdasarkan Citra USG-2 Dimensi Menggunakan Kombinasi Metode SMOTE dan Ensemble Multiclassifier (2020) 3. Pengembangan Model Deteksi Gaya Belajar Mahasiswa Menggunakan Bayesian Network berdasarkan Felder-Silverman Learning Style Dimensions (2020) 4. Pengembangan Sistem Surveillance Cerdas Berbasis Sensor Kamera (2019)
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. The challenges of emotion recognition methods based on Electroencephalogram signals: A Literature Review (2022) 2. Adaptive Lévy Flower Pollination Algorithm for Multiple Objective Optimization (2022) 3. Machine Learning Model for Umbilical Cord Classification Using Combination Coiling Index and Texture Feature Based On 2-D Doppler Ultrasound Images (2022) 4. Radius-SMOTE: A New Oversampling Technique of Minority Samples Based on Radius Distance for Learning From Imbalanced Data (2021)
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 3. APTIKOM (Pengurus Pusat) 4. IndoCEISS (Pengurus Pusat)

Name	Roghib Muhammad Hujja, S.Si., M.Cs
Position	Assistant Professor
Academic career	Bachelor's degree (Electronics And Instrumentation), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 2008 Master's degree (Computer Science), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 2013
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Development of Supporting Devices for BVM based Mechanical Ventilator(2021) 2. Prototype of Optimum Power Support To The Moodlebox System As A Portable Offline LMS For Learning In Remote Areas(2020) 3. Optimization Of Power Usage On Wireless Nodes For Landslide Early Warning System (2019) 4. Soil Condition Monitoring System And Intelligent Irrigation Control Based On IoT (2019) 5. Developing Intelligent System Of Water Quality Control To Improve Food Production In Aquaponics (2018) 6. Early Warning System Prototype for Reducing Secondary Disaster of Mount Merapi Based on Video Data on Sabo River Area (2017) 7. Online Logger and Monitoring System Prototype of Water Surface Height on Code River Yogyakarta (2017)
Industry collaborations over the last 5 years	None
Patents and proprietary rights	Mesin Ventilator Sederhana (2021)
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. M Auzan, RM Hujja, MR Fuadin, D Lelono. Path Tracking and Position Control of Nonholonomic Differential Drive Wheeled Mobile Robot 2. Jurnal Ilmiah Teknik Elektro Komputer dan Informatika (JITEKI) 7 (3), 368-379 2021 3. Atmaji, YW Santoso, RM Hujja, A Dharmawan, D Lelono. Klasifikasi Gerakan Jari Tangan Berdasarkan Sinyal Electromyogram Pada Lengan Indonesian Journal of Electronics and Instrumentation System 11 (1), 71-82 1 2021 4. RM Hujja, L Awaludin. Wireless Sensor Node Energy Optimization Using Duty Cycle Method For Landslide Early Warning System. International Journal of Scientific & Technology Research 8 (11), 1404-1407 2019 5. R Faisal, RM Hujja. Analisis Penempatan Node Sensor Terhadap Jarak Pengambilan Data Pada Media Tanah. IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) 9 2019
Activities in specialist bodies over the last 5 years	1. IndoCEISS (Pengurus Pusat)

Name	Sigit Priyanta, S.Si., M.Kom., Dr
Position	Assistant Professor
Academic career	Bachelor's degree, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 1999

	Master's degree, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 2010 Doctoral degree, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 2016
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	HMM and CRF Method Comparison for Named Entity Recognition in Indonesian News, 2017.
Industry collaborations over the last 5 years	PT. Zyrexindo Mandiri Buana Tbk, Development/Production "Laptop Merah Putih Dikti Edu", 2021 PT. Afirmasi Indonesia Online, Development/Production "Tablet Merah Putih Dikti Edu", 2021
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Aspect-Based Sentiment Analysis of KAI Access Reviews Using NBC and SVM, 2022 2. Aspect-Based Sentiment Analysis of Online Marketplace Reviews Using Convolutional Neural Network, 2021 3. A Preliminary Learner Assessment Framework On E-Learning, 2021 4. Comparison of Filter and Wrapper Based Feature Selection Methods on Spam Comment Classification, 2021 5. Adwords Keyword Set Selection Decision Support System Using AHP and TOPSIS Method, 2020 6. Social network analysis of twitter to identify issuer of topic using PageRank, 2019 7. Automatic Text Summarization Based on Semantic Networks and Corpus Statistics, 2019 8. Analysis of Emoticon and Sarcasm Effect on Sentiment Analysis of Indonesian Language on Twitter, 2019 9. Detection Of Spam Comments On Instagram Using Complementary Naïve Bayes, 2019
Activities in specialist bodies over the last 5 years	None

Name	Sri Hartati, Dra., M.Sc., Ph.D., Prof.
Position	Professor
Academic career	Bachelor's degree, Physics (major Electronic and Instrumentation), Faculty of Mathematics and Natural Sciences, Gadjah Mada University (UGM), Indonesia, 1986. Master's degree, Computer Science, University of New Brunswick, Canada, 1990. Doctoral degree, Faculty of Computer Science, Univ of New Brunswick, Canada, 1996.
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University.

Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Computer Sensor-Based Intelligent Hydroponic Farming System and IOT for Monitoring Macronutrient Needs in Plants, 2021. 2. Learning Assessment System Model for Determining the Ability Level of Learners in E-Learning, 2021. 3. Development of Intelligent and Integrated Surveillance System Based on Camera Sensor, 2021. 4. Artificial Intelligence for Computer Assisted Diagnosis, 2020. 5. Development and Implementation of Post-Harvest Tobacco Leaf Classification System at PTPN X, 2020. 6. Machine Learning Assisted Diagnostics, 2019. 7. Development and Implementation of Post-Harvest Tobacco Leaf Classification System 2019, 8. Development of Face Recognition System Based on 2D To 3D Image Reconstruction Using Dual Vision Camera, 2018. 9. Improved Plasmodium Malaria and Life Stage Performance, 2017. 10. Intelligent Traffic Monitoring and Traffic Control Systems(ITMCS) using Smart Video Sensor, 2017. 11. Identification of Thalassemia Minor Based on Red Blood Cell Morphology, 2017.
Industry collaborations over the last 5 years	None
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Color Ladder Based Tobacco Leaf Classifier Software (Patent), 2019. 2. Post-harvest dry tobacco leaf classification method based on retrainable color ladder (Patent).
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Amniotic Fluid Segmentation Based on Pixel Classification Using Local Window Information and Distance Angle Pixel, <i>Applied Soft Computing Journal</i> (Q1, SJR 1.96), Volume 107, August, 2021. 2. Amniotic Fluid Classification Based On Volume And Echogenicity Using Single Deep Pocket And Texture Feature, <i>ICIC Express Letters</i> (Q3, SJR 0.28), Volume 15, Number 7, July 2021. 3. Morphological, Texture, and Color Feature Analysis for Erythrocyte Classification in Thalassemia Cases, <i>IEEE Access</i>, vol.8,2020. 4. Time Series Data Prediction using Elman Recurrent Neural Network on Tourist Visits in Tanah Lot Tourism Object, <i>International Journal of Engineering and Advanced Technology (IJEAT)</i>, vol 9, 1, 315-323, 2019. 5. Erythrocyte Classification Using Multi-Layer Perceptron, Naïve Bayes Classifier, RBF Network and SVM, <i>International Journal of Engineering and Advanced Technology (IJEAT)</i> ISSN: 2249 – 8958, Volume-9 Issue-2, December, 2019. 6. Performance of SVM and ANFIS for Classification of Malaria Parasite and Its Life-Cycle-Stages in Blood Smear, <i>International Conference Soft Computing and Data Science</i>, 2018. 7. Erratum: ‘Indonesian syllabification using a pseudo nearest neighbour rule and phonotactic knowledge’, <i>Speech Communication</i> 85, 2016, 109–118. 8. Improved-Node-Probability Methode for Decision Making in Priority Determination of Village Development Proposed Program,

	<p>International Journal of Advanced Computer Science and Applications (IJACSA), vol.8, issue 11.</p> <p>9. The Feature Extraction to Determine the Waves Peak in the Electrocardiogram Graphic Image, International Journal of Image, Graphics and Signal Processing (IJIGSP), Vol.9 No.6,1-13.</p> <p>10. Improved-Node-Probability Methode for Decision Making in Priority Determination of Village Development Proposed Program, International Journal of Advanced Computer Science and Applications (IJACSA), Volume 8 Issue 11, 2017.</p> <p>11. Three-stage fuzzy rule-based model for earthquake non-engineered building house damage hazard determination , Journal of Advanced Computational Intelligence and Intelligent Informatics, 2017, 21,7, p. 1298-1311.</p>
Activities in specialist bodies over the last 5 years	<p>1. As Chairlady of the Professional Association in the field of computer science, electronics and instrumentation, Indonesian Computer Electronics and Instrumentation Support Society (IndoCEISS), 2017-present.</p> <p>2. As Chairlady of the Executive Board of the Independent Accreditation Institute, in the field of informatics and computers, which is called <i>LAM Infokom</i>, 2020-present.</p> <p>3. As Executive Member of IABEE international accreditation in the field of informatics and computers, 2016-present.</p> <p>4. As Chairlady of the Independent Accreditation Agency Development Agency at the Association for Higher Education Informatics and Computers (APTIKOM), 2016-present.</p>

Name	Sri Mulyana, Drs, M Kom., Dr.
Position	Associate Professor
Academic career	<p>Bachelor's degree (Computer Science), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 1992</p> <p>Master's degree (Computer Science), Faculty of Mathematics and Natural Sciences , Universitas Gadjah Mada, 2000</p> <p>Doctoral Degree (Computer Science), Faculty of Mathematics and Natural Sciences , Universitas Gadjah Mada, 2021</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<p>1. Detection of Methicillin Resistant Staphylococcus Aureus (MRSA) in cow's milk with Natural Language Processing (NLP), 2022</p> <p>2. Detection of Human Skin Using Viola-Jones and K-Medoids Probability Density Function by Utilizing Color Features, 2022</p> <p>3. Identification of User Stories in the Software Development Process Using Natural Language Processing (NLP), 2022</p> <p>4. Classification of Diseases on Corn Leaf Using Convolutional Neural Network (CNN), 2021</p> <p>5. Named Entity Recognition (NER) Indonesian Using the Hidden Markov Model Concept for Labeling Symptoms of Schizophrenic Disorder, 2021</p> <p>6. Input Text Processing With NLP on Case-Based Reasoning to Help Determine the Type of Schizophrenic Mental Disorder and Its Management, 2020</p>

	<ol style="list-style-type: none"> 7. Development of Test Data on Text Input Processing with NLP on Case-Based Reasoning to Help Determine the Type of Schizophrenic Mental Disorder and Its Management, 2020 8. Integration of Text Input Processing with NLP in Case-Based Reasoning to Help Diagnose of Schizophrenic and Mood Disorders and Their Management, 2019 9. Development of Test Data on Processing of Narrative Text of Patient Medical Record to Generate Symptoms of Schizophrenic and Mood Disorder using NLP, 2019 10. Text Processing of Patient Medical Record Narratives to Generate Mental Disorder Symptoms With NLP, 2018 11. Case-Based Reasoning for the Diagnosis of Types of Mental Disorders and Their Management, 2018 12. Comet Assay Analysis Using Digital Image-Based Machine Learning Method for DNA Damage Detection, 2018
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Mulyana S, Hartati S, Wardoyo R. and Subandi, 2021, "Utilizing Natural Language Processing in Case-based Reasoning for diagnosing and managing Schizophrenia Disorder", ICIC-EL pp. 1083-1091 2. Mulyana S. and Sahputra I., 2018, "The Determination of the Action towards the Patient's Psychological Therapy in the Post-accident Using Case-based Reasoning", Indonesian Journal of Computing and Cybernetics Systems (IJCCS), Vol. 12, No. 1, pp. 11 - 20. 3. Ilham, D. N. and Mulyana S., 2017, "Sistem Pendukung Keputusan Kelompok Pemilihan Tempat PKL mahasiswa dengan Menggunakan Metode AHP dan Borda", Indonesian Journal of Computing and Cybernetics Systems (IJCCS), Vol. 11, No. 1, pp. 55 - 66. 4. Mulyana S, Hartati S. and Wardoyo R., 2019, "Case Based Reasoning for Diagnosing Types of Mental Disorders and Their Treatments", In Proceedings of International Conference on Soft Computing in Data Science SCDS 2019: Soft Computing in Data Science, pp. 241-251. 5. Mulyana S, Hartati S, Wardoyo R. and Subandi, 2019, "A Processing Model Using Natural Language Processing (NLP) For Narrative Text Of Medical Record For Producing Symptoms Of Mental Disorders", In Proceedings of 2019 Fourth International Conference on Informatics and Computing (ICIC), pp. 1-6. 6. Afiahayati, Yanuarieska, R. D. and Mulyana S., 2020, " Comet Assay Classification for Buccal Mucosa's DNA Damage Measurement with Super Tiny Dataset Using Transfer Learning", Book Chapter in Studies in Computational Intelligence, pp. 279-289.
Activities in specialist bodies over the last 5 years	None

Name	Suprpto, M.I.Kom., Dr.
Position	Associate Professor

Academic career	<p>Bachelor's degree (mathematics), Universitas Gadjah Mada, Indonesia, 1987.</p> <p>Master's degree (Computer Science), Sandwich Program, Universitas Indonesia, Indonesia - University of Maryland University College, Maryland, USA, 1990.</p> <p>Doctoral degree (Computer Science), Universitas Gadjah, Indonesia, 2015.</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. The Influence of Loss Function Usage at SIAMESE Network in Measuring Text Similarity, 2019. 2. The Implementation of Machine Learning to Rule-based Machine Translation from Indonesian to English, 2020. 3. The Influence of Weight Initialization at Triplet Siamese Network, 2021. 4. Multi Task Deep Neural Network for Real Time Estimation and Anomaly Detection, 2021. 5. A Design of Bilingual Language Model (Indonesian - English) using Bert Method, 2022. 6. AI-based Smart Contract for a new Blockchain, 2022.
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Suprpto, Retantyo Wardoyo, Belawati H. Widjaja, and Reza Pulungan. A Formal Proof of Correctness of Construct Association from PROMELA to Java. IAENG International Journal of Computer Science, vol. 42, no.4, pp 313-331, 2015. 2. Kasliono, Suprpto, and Faizal Makhrus, Point Based Forecasting Model of Vehicle Queue with Extreme Learning Machine Method and Correlation Analysis. I.J. Intelligent Systems and Applications, 2021, 3, 11-22 Published Online June 2021 in MECS (http://www.mecs-press.org/) DOI: 10.5815/ijisa.2021.03.02. 3. Eko Subiyantoro , Ahmad Ashari , Suprpto, Learning Path Recommendation using Hybrid Particle Swarm Optimization. ASTES, Advances in Science, Technology and Engineering Systems Journal Vol. 6, No. 1, 570-576 (2021) www.astesj.com 4. Suprpto, The Exception Handling in Automatic Translation of Goto from PROMELA Model to Java Program. IAENG International Journal of Computer Science, 48:3, IJCS, September 2021. 5. Ednawati Rainarli, Suprpto, Wahyono, A decade: Review of scene text detection methods. Computer Science Review, 1574-0137/© 2021 Elsevier Inc. All rights reserved. 6. Arry Maulana Syarif, Azhari, Suprpto, and Khafizh Hastuti, Symbolic Representation-based Melody Extraction Using Multiclass Classification for Traditional Javanese Compositions. (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 12, No. 10, 2021. 7. Windyaning Ustyannie, Suprpto, Oversampling Method To Handling Imbalanced Datasets Problem In Binary Logistic Regression Algorithm. IJCCS (Indonesian Journal of Computing and Cybernetics Systems) Vol.14, No.1, January 2020, pp. 1~10 ISSN (print): 1978-1520, ISSN (online): 2460-7258 DOI: https://doi.org/10.22146/ijccs.37415

	<ol style="list-style-type: none"> 8. Suprpto, Joseph A. Polela, The Influence of Loss Function Usage at SIAMESE Network in Measuring Text Similarity. (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 11, No. 12, 2020 9. Meilany Nonsi Tentua, Suprpto, Recommendation System Using Machine Learning: A Review Paper. International Journal of Innovation, Creativity and Change. www.ijicc.net Volume 12, Issue 11, 2020 10. Arief Ichwani, Suprpto, Cased Based Reasoning to Identify Cause Conflicts in Marriage. IJCCS (Indonesian Journal of Computing and Cybernetics Systems) Vol.13, No.1, January 2019, pp. 1~10 ISSN (print): 1978-1520, ISSN (online): 2460-7258 DOI: https://doi.org/10.22146/ijccs.24861. 11. Muhammad Faqih Dzulkarnain, Suprpto, Faizal Makhrus, Improvement of Convolutional Neural Network Accuracy on Salak Classification Based Quality on Digital Image. IJCCS (Indonesian Journal of Computing and Cybernetics Systems) Vol.13, No.2, April 2019, pp. 189~198 ISSN (print): 1978-1520, ISSN (online): 2460-7258 DOI: 10.22146/ijccs.42036. 12. Tenia Wahyuningrum, Azhari, Suprpto, An Extended Consistent Fuzzy Preference Relation to Evaluating Website Usability. (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 10, No. 9, 2019. 13. Aslan Alwi, Azhari, Suprpto, An Interaction Between User and an Augmented Reality System using A Generalized Finite State Automata and A Universal Turing Machine. International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-12, October, 2019.
Activities in specialist bodies over the last 5 years	<ol style="list-style-type: none"> 1. Member of Indonesian Computer, Electronics, and Instrumentation Support Society (IndoCEISS). 2. Member of Asosiasi Pendidikan Tinggi Informatika dan Komputer (APTIKOM—Associations of Indonesian Higher Education Institutions for Informatics and Computer) Chapter Yogyakarta. 3. Member of IndoMs 4. Member of IAENG (International Association of Engineering)

Name	Tri Kuntoro Priyambodo, M. Sc., Dr.
Position	Associate Professor
Academic career	<p>Bachelor's degree Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia, 1986</p> <p>Master's degree, Victoria University of Manchester, United Kingdom, 1987</p> <p>Doctoral degree (Physics), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Behaviour Changes of Creative Economic Products' Consumption by Millennial Tourists in Digital Age, 2021 2. Analysis of the Effects of Collaborative Digital Marketing 4.0 against Culinary Tourism in Yogyakarta, 2021 3. Consumption Patterns of Creative Economics Products in Digital Age, 2020

	<ol style="list-style-type: none"> 4. Quality of Service Analysis and the Development of Multi-hop Clustering Routing on Wireless Sensor Networks to Support Smart Environment, 2020 5. Social-friendly Tourism, 2019 6. Utilisation of Drone Technology for Monitoring and Mitigation of Volcanoes Eruption Area, 2017 7. The Development of a Drone Formation Systems, 2017 8. Analysing the Contributions of de Singkarak Bicycle Tours towards West Sumatra Infrastructures, 2017
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Kain Pengecoh Alat Endus Spektra Tampak dan Infra Merah Dekat untuk Medan Hutan, 2017 2. Pesawat Tanpa Awak dengan Kemampuan Amphibi untuk Analisis Potensi Maritim dan Bencana Alam , 2019
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Enhancement of Stability on Autonomous Waypoint Mission of Quadrotor Using LQR Integration Control, Oktaf Agni Dhewa, Tri Kuntoro Priyambodo, A. Nasuha, Y.M., IIUM Engineering Journal, 2022, 23(1), pp. 129–158 (SCOPUS) 2. Modeling and Simulation of The UX-6 Fixed-Wing Unmanned Aerial Vehicle, Tri Kuntoro Priyambodo, Abdul Majid, Journal of Control, Automation and Electrical Systems, 2021, 32(5), pp. 1344–1355 (SCOPUS) 3. Analysis of The Effect of Domestic Touris’s Risk Perception and Pandemic Safety Image on Travel Intention to Super Priority Destinations, Lestya Aqmarina, Tri Kuntoro Priyambodo, Yulia Arisnani Widyaningsih, International Conference on Global Optimization and Its Applications, Vol 1 (1), pp. 21-30, 2021 4. Travel Behaviour Differences of Indonesian Generation, Janianton Damanik, Tri Kuntoro Priyambodo, Budiawan Budiawan, International Conference on Global Optimization and Its Applications, Vol 1 (1), pp. 12-20, 2021 5. Factors Affecting the Adoption and Usage of eGovernment Services in Libya, Zaied Shouran, Tri Kuntoro Priyambodo, Nur Rokhman, International Journal of Information and Management Sciences, Vol. 32 (4). pp. 311-334, 2021 (SCOPUS) 6. Culinary Consumption in Digital Era: Tourisrs’ Typology and their Characteristics, Suci Sandi Wachyuni, Tri Kuntoro Priyambodo, Dyah Widiyastuti, Journal of Education, Society and Behavioural Science 34 (6), 47-61, 2021 (CrossRef) 7. Social Media and Millenials: Effects, Complexities and Future Research, Budiawan, Janianton Damanik; Tri Kuntoro Priyambodo; Suci Sandi Wachyuni; Rina Widiastuti, PalArch Journal of Archaeology of Egypt, Volume 18 (4), 2021. pp. 2701-2714. 8. Improvement of nuclear facilities DNP3 protocol data transmission security using super encryption BRC4 in SCADA systems, Eko Hadiono Riyadi, Agfianto Eko Putro, Tri Kuntoro Priyambodo, PeerJ Computer Science, 2021, 7, pp. 1–28 9. The Dynamic Symmetric Four-Key-Generators Systems for Securing Data Transmission in Industrial Control System, Eko Hadiono Riyadi,

	<p>Tri Kuntoro Priyambodo, Agfianto Eko Putro, <i>International Journal of Intelligent Engineering and Systems</i>, 2021, 14(1), pp. 376–386</p> <p>10. Performance optimization of MANET networks through routing protocol analysis, Tri Kuntoro Priyambodo, Danur Wijayanto, Made Santo Gitakarma, <i>Computers</i>, 2021, 10(1), pp. 1–13, 2</p> <p>11. Digital activities in gastronomy tourism, <i>Promoting Creative Tourism: Current Issues in Tourism Research</i>, 2021, pp. 464-470 Proceedings of the 4th International Seminar on Tourism (ISOT 2020), November 4-5, 2020, Bandung, Indonesia</p> <p>12. Buy or Bye? Indonesian Millennial Tourist' Motives and Consumption Patterns, Janianton Damanik, Putu Diah Sastri Pitranatri, Tri Kuntoro Priyambodo, Suci Sandi Wachyuni, Rully Anggi Akbar Budiawan, Muhammad Edi Wibowo, <i>Culture, People and Technology: The Driving Forces for Tourism Cities</i>, Proceedings of 8th ITSA Biennial Conference 2020. Pp. 128-145</p> <p>13. Digital Tourism Marketing 4.0 Collaborative Strategy for Banggai Brothers Area, Central Sulawesi, Indonesia, Rully Anggi Akbar, Tri Kuntoro Priyambodo, Hendrie Adji Kusworo, Chafid Fandeli, <i>Journal of Education, Society and Behavioural Science</i>, Volume 33 (11), 2020, pp. 25-38.</p> <p>14. The Influence of Celebrity Endorsement in Restaurant Product Purchase Decision Making, Suci Sandi Wachyuni, Tri Kuntoro Priyambodo, <i>International Journal of Management, Innovation & Entrepreneurial Research</i>, Volume 6 (2), 2020. pp. 45-54.</p> <p>15. The Challenge of Museum Brand Enhancement with Social Media in Yogyakarta Indonesia, Ayu Helena Cornellia, Tri Kuntoro Priyambodo, <i>Jurnal Media Wisata</i>, Volume 18 (1), 2020. pp. 62-68.</p> <p>16. Respons Masyarakat Kampung Naga Terhadap Pembangunan Pariwisata Di Desa Neglasari, Kecamatan Salamu, Kabupaten Tasikmalaya (1975-2010), Awaludin Nugraha, M. Baiquni, Heddy Shri Ahimsa-Putra, Tri Kuntoro Priyambodo, <i>Panjala</i>, Volume 10 (2), 2018, pp. 203_218</p> <p>17. Defining Social Sustainability And Socially Conscious Tourist In Sustainable Tourism Development, Agusta Ika Prihanti Nugraheni, Tri Kuntoro Priyambodo, Bayu Sutikno, Hendrie Adji Kusworo, <i>Journal of Business on Hospitality and Tourism</i>, Volume 6 (2), 2019, pp. 108-120.</p> <p>18. Multiview business model for describing a mechanism of handling physical and digital evidence in digital forensics, Yudi Prayudi, Ahmad Ashari, Tri Kuntoro Priyambodo, <i>Journal of Theoretical and Applied Information Technology</i>, Volume 96, Issue 2, January 2018, Pages 333-345</p> <p>19. Streaming Video Performance FDD Mode in Handover Process on LTE Network, Cornelis FJ Latupapua, Tri Kuntoro Priyambodo, <i>Indonesian Journal of Computing Cybernetics System (IJCCS)</i> Vol.12, No.1, January 2018, pp. 43 ~ 52</p> <p>20. Social based proposed model for museum digital marketing strategy in Yogyakarta, Cornellia, H. A.; Priyambodo, T.K; Putra H.; Widyaningsih Y., <i>Advanced Science Letters</i> Volume 23, Issue 11, November 2017, Pages 10636-10639</p>
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	<ol style="list-style-type: none"> 21. Implementasi Sistem Kendali PID pada Gimbal Kamera 2-sumbu dengan Aktuator Motor Brushless, Tri Kuntoro Priyambodo, IJEIS, Vol. 7, No.2, October 2017, pp.111~126 22. A Comprehensive Review of e-Government Security, Tri Kuntoro Priyambodo, Venant Uzayisenga, Tatang Irawan, Devi Valentino Waas, Asian Journal of Information Technology, Vol. 16 (2-5), pp. 282-286 ISSN: 1682-3915 Medwell Publisher 2017 23. Organization of Sport Tourism Event Tour De Singkarak Contribution Toward Tourist Attraction Improvement in West Sumatera, Retnaningtyas Susanti, Tri Kuntoro Priyambodo, Janianton Damanik, John Soeprihanto, IOSR Jurnal of Humanities and Social Sciences (IOSR-JHSS), Volume: 22, Issue: 10, October 2017, pp. 01-13 24. Model of Linear Quadratic Regulator (LQR) Control Method in Hovering State of Quadrotor, Oktaf Agni Dhewa, Andi Dharmawan, Tri Kuntoro Priyambodo, Journal of Telecommunication, Electronics, and Computer Engineering (JTEC), Volume: 9, No. 3, September 2017, pp. 135-143 ISSN: 2180-1843 25. Magnetogama: an open schematic magnetometer, Wahyudi, Nurul Khakhim, Tri Kuntoro Priyambodo, Djati Mardiatno, Afif Rakhman, Anas Setyo Handaru, Adien Akhmad Mufaqih, and Theodosius Marwan Irnaka, Geoscientific Instrumentation, Methods and Data Systems, Volume: 6, No.2, September 2017 26. Grid-Edge-Depth Map building Employing SAD with Sobel Edge Detector, Budi Rahmani, Agus Harjoko, Tri Kuntoro Priyambodo, International Journal on Smart Sensing and Intelligent Systems, Volume 10, No. 3, 2017, pp. 551-566 27. Responses of Social Media Users to Professional and Tourist Photographs, Fuadi Afif, Tri Kuntoro Priyambodo, Yulia Arisnani Widyaningsih, Book Chapter, in Book: Balancing Development and Sustainability in Tourism Destinations, September 2017, pp.327-338 28. An Exploratory Study of Tourists Photo Taking Behavior at Nglanggeran Ancient Volcano, Gunungkidul, Indonesia, Handayani Rahayuningsih, Kwartarini Wahyu Yuniarti, Tri Kuntoro Priyambodo, Book Chapter, in Book: Balancing Development and Sustainability in Tourism Destinations, September 2017, pp.199-212 29. Tingkat Ketahanan Sistem Informasi Administrasi Kependudukan (Studi pada Dinas Kependudukan dan Pencatatan Sipil Kota Yogyakarta, Aris Tundung Himawan, Tri Kuntoro Priyambodo, Armaidy Armawi, Jurnal Ketahanan Nasional, Volume. 23, No. 2, Agustus 2017, pp.21-33 DOI: 10.22146/jkn.26345 30. The Implementation of Pretty Good Privacy in eGovernment Applications (Case Study on the Official Scripts Electronic Applications in Bantul), Didit Suprihanto, Tri Kuntoro Priyambodo, International Journal of Information Engineering and Electronic Business Volume: 9 No. 4, Juli 2017, pp.1-6 31. SMS and Web-Based e-Government Model Case Study: Citizens Complaints Management System at District of Gihosha –Burundi, Thierry Mugenzy, Tri Kuntoro Priyambodo,
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	<p>32. Indonesian Journal of Computing Cybernetics System (IJCCS) Vol.11, No.1, January 2017, pp. 67 ~ 76</p> <p>33. Analisis Perbandingan Algoritma Perencanaan Jalur Robot Bergerak Pada Lingkungan Dinamis, Tonny Suhendra, Tri Kuntoro Priyambodo, Indonesian Journal of Computing Cybernetics System (IJCCS) Vol.11, No.1, January 2017, pp. 21 ~ 20</p> <p>34. Auto Vertical Takeoff and Landing on quadrotor using PID-fuzzy, Tri Kuntoro Priyambodo, Andi Dharmawan, Journal of Engineering and Applied Sciences 12(SpecialIssues3), Oktober 2017</p>
Activities in specialist bodies over the last 5 years	None

Name	Tri Wahyu Supardi, S.Si, M. Cs.
Position	Assistant Professor
Academic career	Bachelor's degree, Electronics and Instrumentation, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada , Indonesia Master's degree, Dept. of Computer Science and Electronics/ Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, Indonesia
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Development of a prototype of a simple pain relief tool (2019) 2. Development And Implementation Of Post-Harvest Tobacco Leaf Classification System In PTPN X (2020) 3. Development of Variable Frequency Drive based on Pulse Width Modulated Inverter (2021) 4. Non-Composting Process (PNC) for the Production of Organic Fertilizer Nitrogen, High Potassium Containing Humic Acid and Fulvic Acid (Ponkahaf) Replacement of Urea Fertilizer from Chicken Fur Waste with Hydrothermal Carbonation (Kh) Process (2021)
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1. PT AINO Indonesia (Elektronics circuit production 2018) 2. PTPN X (Industrial Process Machine Development 2018 2019) 3. KM Berkah Minaloka (fichery ship equipment development 2018) 4. PT Chakravartin Engineering Indonesia (Founder and CEO 2020-now)
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Tobacco Leaf Classifier Software Basen On Color Ladder 2. Tobacco Leaf Data Acquisition Tools 3. Post Harvest Classification Method of Dry Tobacco Leaves based on Color Ladder that can be Retrained 4. Hydrolyzate Phosphorylation Method of Chicken Feather to Take Liquid Protein as Feed Material and Supramolecular Hydrogel
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Drs. Agus Harjoko, M.Sc., Ph.D. (1); Adhi Prahara (2); Tri Wahyu Supardi, S.Si., M.Cs. (3); Ika Candradewi, S.Si., M.Cs. (4) ; Reza Pulungan (5); Prof. Dra. Sri Hartati, M.Sc., Ph.D. (6). (2019) Image processing approach for grading tobacco leaf based on color and quality 2. Rangga Pujiyanto Wijaya, Abdul Rouf, Tri Wahyu Supardi. (2019). Classification of Fuel Oil Purity Levels Based on Wave Speed Using the K-Nearest Neighbor Algorithm. IJEIS (Indonesian Journal of Electronics and Instrumentation Systems), 9(2), 161-172.

Activities in specialist bodies over the last 5 years	
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Name	Triyogatama Wahyu Widodo, M.Kom
Position	Assistant Professor
Academic career	Bachelor's degree (Computer Science), Universitas Gadjah Mada, 2003 Master's degree (Computer Science), Universitas Gadjah Mada, 2006
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Partial Discharge Detection Using CNN VGG16 Method, 2022 2. A Comparative Study on Partial Discharge Detection Methods for Medium Voltage Panels, 2021 3. Automatic Configuration System on Wireless Control With Context-Aware Approach In Smart Home, 2019 4. Design Of Communication System In Unmanned Aircraft System Using Relay Method To Extend Unmanned Aerial Vehicle Operation Range, 2018 5. Disaster Mitigation of Peat Forest Fires Based on Intelligent Instruments Using Unmanned Aircraft, 2018
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Sistem Konfigurasi Otomatis Pada Pengendalian Nirkabel Dengan Pendekatan Context-Aware Pada Rumah Pintar, DN Hapsari, TW Widodo, IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) 11 (2), 2021 2. Comparison of difference, relative and fractional methods for classification of the black tea based on electronic nose, D Lelono, H Nuradi, MR Satriyo, TW Widodo, A Dharmawan, JE Istiyanto, 2019 International Conference on Computer Engineering, Network, and Intelligent Multimedia (CENIM), 2019 3. Clusterization of pure and formalin fresh noodles with electronic nose based on kernel principal component analysis, D Lelono, MZ Abdillah, TW Widodo, M Apandi, 2019 5th International Conference on Science and Technology (ICST) 1, 1-5, 2019 4. Implementasi Algoritma PSO Pada Multi Mobile Robot Dalam Penentuan Posisi Target Terdekat, IR Priyadana, BAA Sumbodo, TW Widodo, IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) 8 (1), 2018 5. Quality Classification of Chili Sauce Using Electronic Nose with Principal Component Analysis, D Lelono, D Permana, F Achmad, TW Widodo, MA Bramantya, K Triyana, 2018 4th International Conference on Science and Technology (ICST), 1-5, 2018 6. Purwarupa Sistem Pembuka Pintu Cerdas Menggunakan Perceptron Berdasarkan Prediksi Kedatangan Pemilik, BM Arsandi, TW Widodo, F Faizah, IJEIS (Indonesian Journal of Electronics and Instrumentation Systems) 7 (1), 2017
Activities in specialist bodies over the last 5 years	None

Name	Wahyono, S. Kom., Ph.D.
Position	Assistant Professor
Academic career	Bachelor's degree, Dept. of Computer Science and Electronics/Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada , Indonesia, 2006-2010 Master's and Doctoral degree, University of Ulsan-2012-2017
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Development of Intelligent and Integrated Surveillance System Based on Camera Sensor (2020-2023) 2. Development of Intelligent Monitoring System for Tracking Human Objects on Multiple Cameras(2021) 3. Vehicle Distance Estimation at Night Based on Sensor Vision(2021) 4. Analysis of Mask Occlusion Face Recognition Method Based on Convolutional Neural Network(2021) 5. Dependable High Performance Computing With Fault Prediction and Fault Avoidance (2021) 6. Automated Vehicle Calculation System Based on Digital Image Processing (2019) 7. Unmoving Object Detection for Camera Based Intelligent Camera Monitoring (2017).
Industry collaborations over the last 5 years	<ol style="list-style-type: none"> 1. Welding Quality Evaluation Automated System Development, Toyota Indonesia (2020) 2. Smart Farming, PT Rajawali Nusantara Indonesia (2020)
Patents and proprietary rights	<ol style="list-style-type: none"> 1. Abandoned baggage detection software for intelligent surveillance systems (2018) 2. Illegal parking detection software for intelligent surveillance system (2018)
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Pranata P.Y., Wahyono, Improved Visual Background Extractor for Illegally Parked Vehicle Detection, International Journal of Intelligent Engineering and Systems, Vol. 15(3) pp. 416-426, 2022 2. Rahadiyan D., Hartati S., Wahyono, Nugroho A., An Overview of Identification and Estimation Nutrient on Plants Leaves Image Using Machine Learning, Journal of Theoretical and Applied Information Technology, Vol. 100(7) pp. 1836-1852, 2022 3. Wahyono, Harjoko A., Dharmawan A., Adhinata F.D., Kosala G., Jo K.H, Real-Time Forest Fire Detection Framework Based on Artificial Intelligence Using Color Probability Model and Motion Feature Analysis, Fire, 5(1), 23, 2022 4. Wahyono, Dharmawan A., Harjoko A., Chrystian, Adhinata F.D., Region-based annotation data of fire images for intelligent surveillance system, Data in Brief, Vol. 411, 2022 5. Rahadiyan D., Hartati S., Wahyono, Nugroho A., Design of an Intelligent Hydroponics System to Identify Macronutrient Deficiencies in Chili, International Journal of Advanced Computer Science and Applications, Vol. 13(1) pp. 137-145, 2022 6. Wahyono, Joko Hariyono, and Kang-Hyun Jo, 2017, Body Part Boosting Model for Carried Baggage Detection and Classification, Neurocomputing, Vol.228, pp.106-118, March 2017.

	<ol style="list-style-type: none"> 7. Wahyono, Kang-Hyun Jo, 2017, Detecting Human Carrying Baggage from Video Sequences, Journal of Intelligent and Fuzzy Systems, Vol.32, No.2, pp.1601-1613, February 2017. 8. Wahyono, Alexander Filonenko, and Kang-Hyun Jo, 2016, Unattended Object Identification for Intelligent Surveillance Systems Using Sequence of Dual Background Difference, IEEE Transaction on Industrial Informatics, Vol.12, No.6, pp.2247-2255, December 2016. 9. Wahyono and Kang-Hyun Jo, 2016, Cumulative Dual Foreground Differences For Illegally Parked Vehicles Detection, IEEE Transaction on Industrial Informatics, 2016 (Accepted). 10. Wahyono and Kang-Hyun Jo, 2015, LED Dot Matrix Text Recognition Method in Natural Scene, Neurocomputing, Vol.151, No.3, pp.1033-1041, March 2015. 11. Wahyono, Han-Sung Park, and Kang-Hyun Jo, 2013, Discontinuous Character Recognition Method in Variable Message Signs for Intelligent Transportation System, International Journal of Machine Learning and Computing, Vol.3, No.6, pp.468-472, December 2013.
Activities in specialist bodies over the last 5 years	World Class Professor Program - Peningkatan Kualitas Publikasi Internasional dan Hilirisasi Industri Hasil Penelitian Bidang Kecerdasan Buatan (2019)

Name	Yohanes Suyanto, M.Ikom., Dr.
Position	Assistant Professor
Academic career	<p>Bachelor's degree (Physics), Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 1987</p> <p>Master's degree (Computer Science), Universitas Indonesia, 1992</p> <p>Doctoral degree, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada, 2014</p>
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada.
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Keyboard Chord Detection Based on Pattern Recognition Using the KNN Method and MFCC Feature Extraction 2. Q-Learning for Tree Formation in Indonesian Sentence Generation Using the Tree Long Short-Term Memory Algorithm, 2020 3. Integration of Association Rules and Ontology in Information Retrieval, 2019 4. Integration of Numerical Music Notation in Latex Script, 2017
Industry collaborations over the last 5 years	None.
Patents and proprietary rights	None.
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Chrismanto, A.R., Sari, A.K., Suyanto, Y., Critical Evaluation On Spam Content Detection In Social Media, Journal of Theoretical and Applied Information Technology, 2022, 100(8), pp. 2642–2667 2. Hastuti, R.P., Suyanto, Y., Sari, A.K., Q-Learning for Shift-Reduce Parsing in Indonesian Tree-LSTM-Based Text Generation, ACM Transactions on Asian and Low-Resource Language Information Processing, 2022, 21(4), 64 3. Gitakarma, M.S., Priyambodo, T.K., Suyanto, Y., Sumiharto, R., Architectures, frameworks, and applications in IoT-based smart

	<p>environment: A review, Journal of Physics: Conference Series, 1810(1), 2021</p> <ol style="list-style-type: none"> 4. Afuan, L., Ashari, A., Suyanto, Y., A New Approach in Query Expansion Methods for Improving Information Retrieval, JUITA Vol. 9 No. 1, May 2021 5. Gitakarma, M.S., Priyambodo, T.K., Suyanto, Y., Sumiharto, R., Wijayanto, D., Designing Wireless Sensor Network Routing on Agriculture Area Using the LEACH Protocol, 2020 3rd International Seminar on Research of Information Technology and Intelligent Systems, ISRITI 2020, 2020, pp. 221–226, 931539 6. Isnain, A.R, Sihabuddin, A., Suyanto, Y., Bidirectional Long Short Term Memory Method and Word2vec Extraction Approach for Hate Speech Detection, IJCCS (Indonesian Journal of Computing and Cybernetics Systems), Vol.14, No.2, April 2020, pp. 169~178 7. Bangsa, M,m T., A., Priyanta, S., Suyanto, Y., Aspect-Based Sentiment Analysis of Online Marketplace Reviews Using Convolutional Neural Network, IJCCS (Indonesian Journal of Computing and Cybernetics Systems)Vol.14, No.2, April 2020,pp. 123~134, 2020 8. Jonathan and Suyanto, Y., Sintesis Suara Bernyanyi Dengan Teknologi Text-To-Speech untuk Notasi Musik Angka dan Lirik Lagu Berbahasa Indonesia, Indonesian Journal of Electronics and Instrumentation Systems(IJEIS) Vol.10, No.1, April 2020, pp. 1~10 9. Malau, P., J., A. and Suyanto, Y., Sintesis Taganing Adaptif Menggunakan Metode Pitch Shifting by Delay-Line Based untuk Standardisasi Gondang Batak Toba, Indonesian Journal of Electronics and Instrumentation Systems (IJEIS)Vol.10, No.2, October 2020, pp. 131~142 10. Pratiwi, R., W., Sari, Y., Suyanto, Y., Attention-Based BiLSTMFor Negation Handling In Sentiment Analysis, IJCCS (Indonesian Journal of Computing and Cybernetics Systems)Vol.14, No.4, October 2020,pp. 397~406 11. Afuan, L. Ashari, A., Suyanto, Y., “The Ontology Approach for Information Retrieval in Learning Documents”, Journal of Theoretical and Applied Information Technology, Vol. 97, No. 7, page 2052-2061, 2019. 12. Afuan, L. Ashari, A., Suyanto, Y., Query Expansion in Information Retrieval using Frequent Pattern (FP) Growth Algorithm for Frequent Itemset Search and Association Rules Mining, IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 10, No. 2, 2019 13. Afuan, L. Ashari, A., Suyanto, Y., A study: query expansion methods in information retrieval, Journal of Physics: Conference Series 1367 (2019) 14. Setiyani, T., P., A., Suyanto, Y., Implementasi Reduksi Keadaan Rangkaian Digital Sekuensial Metode Bagan Implikasi, Jurnal TEKNO, Vol. 16, No. 2, Oktober 2019 15. Wardhana, H., Suyanto, Y., Priyanta, S, Utilization Of Query Rewriting Over Ontology Change: A Review, International Journal Of Scientific & Technology Research Volume 7, Issue 3 , March 2018 16. Atabiq F, Suyanto Y. Komputasi Tingkat Kesehatan Instalasi Listrik pada Gedung. Jurnal Integrasi, 9 pp1-8, 2017
Activities in specialist bodies over the last 5 years	None

Name	Yunita Sari, S.Kom., M.Sc., Ph.D.
Position	Lecturer
Academic career	Bachelor's degree, Dept. of Computer Science and Electronics/Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada , Indonesia, 2007 Master's degree, Universiti Teknologi PETRONAS (UTP), Malaysia, 2011 Doctoral degree, University of Sheffield, UK,
Employment	Lecturer, Department of Computer Science and Electronics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. SMART PASIVIK: Using AI for Patient Simulation learning (2022) 2. Development of Authorship Attribution Dataset (2021) 3. Development of Corruption Database Wave 5, Based on Court Decision 2001-2018 (2019-2020) 4. The Development of An Automatic Essay/Short Answer Scoring System (2019)
Industry collaborations over the last 5 years	None
Patents and proprietary rights	None
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. A. William and Y. Sari. 2020. CLICK-ID: A Novel Dataset for Indonesian Clickbait Headlines. Data in Brief. Elsevier, Volume 32, October 2020 (Q4-2020) 2. Wang, HC., Hsu, TT. Sari, Y.. 2019. Personal Research Idea Recommendation using Research Trends and A Hierarchical Topic Model. Scientometrics. Vol 121. Issue 3. pp 1385-1406. (Q1-2017; impact factor:2.770) 3. Y. Sari, M. Stevenson, and A. Vlachos (2018). Topic or Style? Exploring the Most Useful Features for Authorship Attribution. In Proceedings of The 27th International Conference on Computational Linguistics (COLING 2018). Santa Fe, New-Mexico, USA. (acceptance rate: 33%) 4. LA Wulandhari, S Redjeki, Y Sari, MR Khaefi (2018). Estimating Poverty at the District Level with Social Media. Technical Report of Research Dive 7: AI and Machine Learning for Estimating Poverty. Pulse Lab Jakarta. October, 2018. 5. Y. Sari, M. R. Fatchurrahman, and M. Dwiastuti (2017). A Shallow Neural Network for Native Language Identification with Character N-grams. In Proceedings of the 12th Workshop on Building Educational Applications Using NLP. Association for Computational Linguistics, Copenhagen, Denmark. 6. Yunita Sari, Andreas Vlachos, Mark Stevenson, 2017, "Continuous N-gram Representation for Authorship Attribution", In Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics, Valencia, Spain, April 2017 (to appear)
Activities in specialist bodies over the last 5 years	INACL - Indonesian Association of Computational Linguistics (Active member)