CURICULLUM VITAE

Part A. PERSONAL INFORMATION

First name	Kusrini
Family name	Kusrini
Gender (*)	Female
e-mail	kusrini@amikom.ac.id
Telp Number	+618157988801
IEEE Member	92728506 (Since 2015)
Society	IEEE Systems, Man, and Cybernetics Society
Open Researcher and Contributor ID (ORCID)	0000-0001-9573-3909
SCOPUS ID	36057015500

A.1. Current position

Position	Dean of the Computer Science Faculty
Institution	Universitas AMIKOM Yogyakarta
Country	Indonesia
Key words	Data Science, Artificial Intelligence, Decision Support System

A.2. Previous positions (research activity interuptions, indicate total months)

Period	Position/Institution/Country/Interruption cause
2016-2025	Director of Postgraduate Program Universitas AMIKOM Yogyakarta
2010-2016	Vise Postgraduate Director/STMIK AMIKOM Yogyakarta/Indonesia
2003 - Now	Lecturer at Universitas AMIKOM Yogyakarta

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Doctor of Computer Science	Universitas Gadjah Mada/Indonesia	2007-2010
Master of Computer Science	Universitas Gadjah Mada/Indonesia	2004-2006
Bachelor of Computer Science	Universitas Gadjah Mada/Indonesia	1997-2002

(Include all the necessary rows)

Part B. CV SUMMARY *(max. 5000 characters, including spaces)*

Kusrini is a professor and senior researcher at Universitas AMIKOM Yogyakarta. She is actively involved in various organizations, conducts research, and publishes scientific papers. Additionally, she writes articles for mass media every two weeks.

She is actively involved in various national organizations, serving as the Secretary General of CORIS, the Head of Domestic and International Collaboration at IndoCEISS, and the Coordinator for Equal Educational Opportunities at APTIKOM. With extensive experience in securing both national and international research grants, she is currently engaged in SILVANUS, an international research consortium comprising 49 institutions from 18 countries, funded by the European Union. Additionally, she actively publishes research papers on

artificial intelligence, data science, and decision support systems. She has also served as the General Chair for several IEEE conferences.

Part C. RELEVANT MERITS *(sorted by typology)*

C.1. Publications *(see instructions)*

1. Alba Puelles López, Rodrigo Martínez-Béjar, **Kusrini Kusrini***, Arief Setyanto, I Made Artha Agastya. Enhancing COVID-19 forecasting through deep learning techniques and fine-tuning. International Journal of Electrical and Computer Engineering (IJECE) Vol. 14, No. 1, February 2024, pp. 934~943. ISSN: 2088-8708, DOI: 10.11591/ijece.v14i1.pp934-943

2. Andi Bahtiar Semma, Mukti Ali, Muh Saerozi, Mansur, **Kusrini**. Cloud computing: google firebase firestore optimization analysis. Indonesian Journal of Electrical Engineering and Computer Science (IJEECS). Vol. 29, No. 3, March 2023, pp. 1719~1728. ISSN: 2502-4752, DOI: 10.11591/ijeecs.v29.i3.pp1719-1728

3. **Kusrini, K***., Suputa, S., Setyanto, A., Agastya, I. M. A., Priantoro, H., Chandramouli, K., & Izquierdo, E. (2020). Data augmentation for automated pest classification in mango farms. Computers and Electronics in Agriculture, 179 doi:10.1016/j.compag.2020.105842.
https://www.sciencedirect.com/science/article/pii/S0168169919320800

4. **Kusrini Kusrini***, Suputa Suputa, Arief Setyanto, I Made Artha Agastya, Herlambang Priantoro, Sofyan Pariyasto. (2022). A comparative study of mango fruit pest and disease recognition; TELKOMNIKA (Telecommunication, Computing, Electronics and Control). 20 (6). ISSN 1693-6930. Page 1264-1275, http://doi.org/10.12928/telkomnika.v20i6.21783,
http://telkomnika.uad.ac.id/index.php/TELK OMNIKA/article/view/21783

5. Zhang, X., & **Kusrini, K.** (2021). Autonomous long-range drone detection system for critical infrastructure safety. Multimedia Tools and Applications, 80(15), 23723-23743. doi:10.1007/s11042-020-10231-x. https://link.springer.com/article/10.1007/s11042-020-10231-x

6. **Kusrini***, Yudianto, M. R. A., & Fatta, H. A. (2022). The effect of gaussian filter and data preprocessing on the classification of punakawan puppet images with the convolutional neural network algorithm. International Journal of Electrical and Computer Engineering, 12(4), ISSN 2088-8708. Page 3752-3761. http://doi.org/10.11591/ijece.v12i4.pp3752-3761.
https://ijece.iaescore.com/index.php/IJECE/article/view/26812

7. **Kusrini***, K., Setyanto, A., Agastya, I. M. A., Hartatik, H., Chandramouli, K., & Izquierdo, E. (2022). A DEEP-LEARNING FRAMEWORK FOR ACCURATE AND ROBUST DETECTION OF ADULT CONTENT. Journal of Engineering Science and Technology, 17(3), ISSN 1823-4690. pp 2104-2119. https://jestec.taylors.edu.my/Vol%2017%20Issue%203%20June%202022/17_3_36.pd.

8. Wati, V., **Kusrini***, K., Al Fatta, H., & Kapoor, N. (2021). Security of facial biometric authentication for attendance system. Multimedia Tools and Applications, 80(15), 23625-23646. doi:10.1007/s11042-020-10246-4. https://link.springer.com/article/10.1007/s11042-020-10246-4

9. Muktafin, E. H., & **Kusrini**, Pramono. (2021). Sentiments analysis of customer satisfaction in public services using K-nearest neighbors algorithm and natural language processing approach. Telkomnika (Telecommunication Computing Electronics and Control), 19(1), 146-154. doi:10.12928/TELKOMNIKA.V19I1.17417. http://telkomnika.uad.ac.id/index.php/TELKOMNIKA/article/view/17417

10. **Kusrini, K.***, Kirana, K. C., Purwanto, M. I., & Laksito, A. D. (2018). GIS-based decision support system for cash waqf distribution. Journal of Theoretical and Applied Information Technology, 96(3), 701-711. http://www.jatit.org/volumes/Vol96No3/12Vol96No3.pdf

11. Nitika Kapoor, Parminder Singh, and **Kusrini**. (2022). Research challenges in smart environments. AIoT Technologies and Applications for Smart Environments. Edited by Mamoun Alazab, Meenu Gupta, Shakeel Ahmed. Institution of Engineering and

Technology. ISBN-13: 978-1-83953-633-5. https://shop.theiet.org/aiot-technologies-and-applications-for-smart-environments

12. Vera Wati, **Kusrini***, Hanif Al Fatta, Nitika Kapoor. Security of facial biometric authentication for attendance system. Multimedia Tools and Applications, January 2021, 1163: Large-scale multimedia signal processing for security and digital forensics. https://doi.org/10.1007/s11042-020-10246-4

C.2. Congress, indicating the modality of their participation (invited conference, oral presentation, poster)

1. Keynote Speaker; The 2023 International Conference on Information Management and Technology (ICIMTech 2023); 24th – 25th August 2023; (hybrid) at Malang, East Java, Indonesia. Organized by Universitas Bina Nusantara. Topic: Integrated Technology for Forest Fire Management; https://sis.binus.ac.id/icimtech-2023/post/keynotes-speaker/.

2. Keynote Speaker; The 6th International Conference on ICT In Education 2023 (ICTE 2023); 30-31October 2023 (Online); Organized by the Faculty of Computing and META-Technology (FKMT), Sultan Idris Educational University (UPSI), Malaysia. Topic: AI Role in Education. https://sites.google.com/siswa.upsi.edu.my/icte-2023

3. Oral Presentation. Auliyah, U.A., Rianansyah, A., Rosadi, M.M., **Kusrini, K**.*, Martinez-Bejar, R. Droughts Level Prediction Based on Standardized Precipitation Evapotranspiration Index Using Long Short-Term Memory Based on Time-Series Split. 2023 6th International Conference on Information and Communications Technology, ICOIACT 2023, 2023, pp. 332–337. https://ieeexplore.ieee.org/document/10455949

4. Oral Presentation. Arif Dwi Laksito; **Kusrini Kusrini***; Arief Setyanto; Muhammad Zuhdi Fikri Johari; Zauvik Rizaldi Maruf; Kumara Ari Yuana; Gardyas Bidari Adninda; Renindya Azizza Kartikakirana; Fitria Nucifera; Wiwi Widayani; Krishna Chandramouli; Ebroul Ezquierdo. Machine Learning and Social Media Harvesting for Wildfire Prevention. 2023 IEEE 13th International Conference on Pattern Recognition Systems, ICPRS 2023, 2023. Date of Conference: 04-07 July 2023. Guayaquil, Ecuador. https://ieeexplore.ieee.org/document/10179001

5. Oral Presentation. Bagus Setya; Rizqy Agung Nurhidayatullah; Maria Beliti Hewen; **Kusrini Kusrini***. Comparative Analysis Of Rainfall Value Prediction In Semarang Using Linear And K-Nearest Neighbor Algorithms. 2023 5th International Conference on Cybernetics and Intelligent System (ICORIS). Date of Conference: 06-07 October 2023. Pangkalpinang, Indonesia. https://ieeexplore.ieee.org/document/10352274

6. Oral Presentation. Kumara Ari Yuana; **Kusrini***; Arief Setyanto; Arif Dwi Laksito; Zauvik Rizaldi Maruf; Muhammad Zuhdi Fikri Johari; Gardyas Bidari Adninda; Renindya Azizza Kartikakirana; Rhisa Aidilla Suprapto; Prasetyo Mimboro; Wiwi Widayani. Monte Carlo method for map area calculation in wildland fire map management. 2022 6th International Conference on Information Technology, Information Systems and Electrical Engineering (ICITISEE). Date of Conference: 13-14 December 2022. Yogyakarta, Indonesia. https://ieeexplore.ieee.org/document/10057604

7. Oral Presentation. Arief Setyanto, **Kusrini Kusrini***, Gardyas Bidari Adninda, Renindya Kartika Kirana, Rhisa Aidilla Suprapto, Arif Laksito, I Made A Agastya, Krishna Chandramouli, Andrea Majlingova, Yvonne Brodrechtová, Konstantinos Demestichas, Ebroul Izquierdo. Ecological Impact Assessment Framework for areas affected by Natural Disasters. CBMI 2022: International Conference on Content-based Multimedia Indexing September 2022. Conference Date: September 14 - 16, 2022. Graz Austria. https://doi.org/10.1145/3549555.3549596.
https://dl.acm.org/doi/10.1145/3549555.3549596

8. Oral Presentation. Prasetyo Mimboro; **Kusrini Kusrini***; Arif Dwi Laksito. Spatial Hotspot Data and Weather for Forest Fire Data Clustering. 2022 5th International Conference on Information and Communications Technology (ICOIACT). Date of Conference: 24-25 August 2022. Yogyakarta, Indonesia. https://ieeexplore.ieee.org/document/9971884

9. Oral Presentation. **Kusrini Kusrini***; Suputa; Arief Setyanto; I Made Artha Agastya; Sofyan Pariyasto; Wahyu Wijaya Widiyanto; Fadlurahman; Herlambang Priantoro.

Automatic Mango Leaf and Trunk Detection as Supporting Tool of Mango Pest Identifier (MPI). 2021 3rd International Conference on Cybernetics and Intelligent System (ICORIS). Date of Conference: 25-26 October 2021. Makasar, Indonesia. https://ieeexplore.ieee.org/document/9649558

10. Oral Presentation. **Kusrini***, Suputa, Arief Setyanto, I Made Artha Agastya, Herlambang Priantoro, Fadlurahman, Krishna Chandramouli. User Evaluation of Mobile-based Smart Mango Pest Identification; 2020 8th International Conference on Cyber and IT Service Management (CITSM); 2020; Publisher: IEEE. https://ieeexplore.ieee.org/document/9268883/

11. Oral Presentation. Yani, D., Razaq, T.A., Stevanie, F., **Kusrini***. Comparative Analysis of Deep Learning Algorithm for Flood Prediction Probability With and Without Feature Selection. 2024 8th International Conference on Information Technology, Information Systems and Electrical Engineering, ICITISEE 2024, 2024, pp. 150–154. https://ieeexplore.ieee.org/document/10730706/

12. Oral Presentation. Alexandrina, Z.W., Alfath Zulkarnain, I., Eko Prayogo, D., **Kusrini***. Flood Prediction in Jakarta Using Long Short-Term Memory. 2024 8th International Conference on Information Technology, Information Systems and Electrical Engineering, ICITISEE 2024, 2024, pp. 562–567. https://ieeexplore.ieee.org/document/10729942

C.3. Research projects, indicating your personal contribution. In the case of young researchers, indicate lines of research for which they have been responsible.

1. 101037247. Silvanus: Integrated Technological and Information Platform for wildfire Management, European Commission, Horizon 2020, Coordinated by UNIVERSITA TELEMATICA PEGASO S.R.L., Principal investigator AMIKOM: Kusrini, 1 Oct 2021 – 31 Mar 2025, total € 24.186.845, AMIKOM € 273.437,50. Principal investigator, Work Package Leader

2. Development of a Self-Service Laundry System Based on AI-IOT Technology and Cashless Payments for MSMEs. 1 Jul – 31 Dec 2023. € 28.000. Principal Investigator

3. Smart System for Pest Detection and Control on Mango Plants based on Mobile Devices. Ministry of Education, Culture, Research and Technology of the Republic of Indonesia. 1 Mar 2019 - 31 Dec 2021. € 33.000. Principal Investigator

4. Supervision of New Normal Adaptation using multimedia data analysis with Deep Learning. Ministry of Research and Higher Education of the Republic of Indonesia. 1 May 2019 - 31 Dec 2020. € 20.500. Investigator

5. Transformation of the Umbaran Goat Farming System in Bantul to Become a DIGITAL FARM Platform Based on AI and IOT Technology. Ministry of Education, Culture, Research and Technology of the Republic of Indonesia. 1 Jun 2022 – 15 Dec 2022. € 25.000. Principal Investigator

6. Development, Testing and Utilization of the Usman Robot for UVC-Based Mosque Floor Sterilization to Prevent the Spread of COVID-19. Ministry of Education, Culture, Research and Technology of the Republic of Indonesia. 1 Aug 2021 – 15 Dec 2021. € 10.000. Principal Investigator

7. Measurement of Document Similarity to Support Online Learning in the Learning Management System and Massive Open Online Course). Ministry of Education, Culture, Research and Technology of the Republic of Indonesia. 12 April 2021 – 31 Dec 2023. € 34.700. Principal Investigator.

C.4. Contracts, technological or transfer merits, Include patents and other industrial or intellectual property activities (contracts, licenses, agreements, etc.) in which you have collaborated. Indicate: a) the order of signature of authors; b) reference; c) title; d) priority countries; e) date; f) Entity and companies that exploit the patent or similar information, if any

1. 027/4490. Android-based Food Consumption Application. Department of Agriculture, Food and Fisheries of Sleman Regency (National). March-April 2019. € 6.050. Principal Investigator

2. 027/4761. Compilation of Price Information Application Software. Department of Agriculture, Food and Fisheries of Sleman Regency (National). March-April 2019. € 6.200. Principal Investigator

3. 06/PPK-PDPKS/DISKOMINFO/2019. Assessment and Development of Information Systems for Health Support Data Processing Services Shopping Work. Department of Communication and Information, Bantul Regency (National). Jan-April 2019. € 6.100 Principal Investigator

4. Planning Study of ITS Traffic Light Development and Improvement Implementation Stages in DKI Jakarta Province. Department of Transportation for the Special Capital Region of Jakarta (National). April-June 2021. € 40.000. Investigator

5. Development of an Application-Based Transportation Movement System. Department of Transportation for the Special Region of Yogyakarta (National). June - Oct 2021. € 20.000. Investigator

6. Cultural Directory Information System for Bantul Regency) Cultural Office of Bantul Regency (National). Oct-Dec 2021. € 7.000. Principal Investigator

7. Social Insurance Monitoring and Evaluation System in the Employment Sector. National Social Security Council (National). Sep-Oct 2020. € 6.100. Principal Investigator