



Agus Setiawan M.Eng

LECTURER, HEAD OF INFORMATION SYSTEM
BUREAU

Universitas Muhammadiyah Magelang, Indonesia

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RESEARCH PROFILE

Research at the intersection of Human-Computer Interaction, User Experience design, and adaptive software systems. Core interest in how cognitive and behavioural factors shape interaction with digital systems, and in developing intelligent, personalised interfaces that respond meaningfully to individual users. Recent work developed an AI-driven adaptive UI model that adjusts interface behaviour in real time based on user personality and contextual factors.

EDUCATION

- S2 — Information Technology** 2012–2014
Universitas Gadjah Mada, Indonesia
Thesis: The Design of Repair Services Tracking Information System Based on CRM in a Service Center · GPA 3.33
- S1 — Informatics Engineering Education** 2007–2011
Universitas Negeri Yogyakarta, Indonesia
Thesis: Remote and Monitoring Application based on Java Remote Method Invocation (RMI) · GPA 3.59

POSITIONS & PROFESSIONAL EXPERIENCE

- Research Supervisor, Virtual Campus Tour using Augmented Reality** 2025-01-01–2025-12-31
Universitas Muhammadiyah Magelang
Supervised development of an interactive AR campus navigation application using the WebXR API.
- Head of Information System Bureau** 2020-01-01–present
Universitas Muhammadiyah Magelang
Oversaw design, implementation, and evaluation of institutional digital information systems.
- Principal Researcher, Adaptive User Interface Design** 2020-01-01–2025-12-31
Adaptive UI Design Based on Personality and Contextual Factors
Developed an AI-driven UI model that adapts to user personality traits and situational context.
- Research Collaborator, Industry 4.0 Circular Waste Management** 2019-01-01–2020-12-31
Smart Waste Management System Project
Designed usability-focused UI prototypes and real-time data-visualisation dashboards.
- Principal Researcher, UX Evaluation for Digital Systems in Higher Education** 2017-01-01–2019-12-31
University Academic Platform Usability Research
Led usability testing workshops and heuristic evaluations of university academic platforms.
- Lecturer, Department of Informatics** 2015-01-01–present
Universitas Muhammadiyah Magelang
Teaching Human-Computer Interaction, Web Programming, and Software Engineering; supervising student research in UI/UX design and information systems.

PUBLICATIONS

JOURNAL ARTICLE (17)

1. Uky Yudatama, Pristi Sukmasetya, Agus Setiawan, Endah Ratna Arumi (2026). Dataset on Green IT adoption in Indonesian higher education institutions: A survey-based study. *Data in Brief*, 66, 112891. doi:10.1016/j.dib.2026.112891
2. Yudatama, U., Setiawan, A., & Sukmasetya, P. (2025). Analysis of success factors for green IT implementation in higher education. *HighTech and Innovation Journal*, 6(2), 501-523. doi:10.28991/HIJ-2025-06-02-010
3. Salam, M. I., Setiawan, A., & Sukmasetya, P. (2024). Perancangan UI/UX pada sistem perpustakaan dengan pendekatan design thinking. *Journal of Information System Research (JOSH)*, 5(2), 676-685. doi:10.47065/josh.v5i2.4654
4. Bachtiar, N. K., & Setiawan, A. (2023). A bibliometric analysis of themes and network structures for future research in SMEs sustainability. *Jurnal Manajemen Teori dan Terapan*, 16(3), 522-541. doi:10.20473/jmtt.v16i3.47284
5. Bachtiar, N. K., Setiawan, A., Prastyana, G. A., & Kijkasiwat, P. (2023). Business resilience and growth strategy transformation post crisis. *Journal of Innovation and Entrepreneurship*, 12(1), 77. doi:10.1186/s13731-023-00345-5
6. Sulistyono, M. R., Setiawan, A., & Nuryanto, N. (2023). Penerapan metode design thinking untuk perancangan UI/UX sistem e-marketplace berbasis website. *JOSH*, 4(4), 1364-1376. doi:10.47065/josh.v4i4.3534
7. Pratama, M. A. T., Setiawan, A., & Sukmasetya, P. (2023). Perancangan user interface PPID Kota Magelang berbasis website menggunakan pendekatan user centered design. *TeIka*, 13(02), 159-171. doi:10.36342/teika.v13i02.3234
8. Ahmad Asshidiqy, R., Setiawan, A., & Sasongko, D. (2022). Penerapan metode Posenet untuk deteksi ketepatan pose yoga. *Journal of Computer System and Informatics (JoSYC)*, 4(1), 31-38. doi:10.47065/josyc.v4i1.2444
9. Prastian, G. A., Setiawan, A., & Bachtiar, N. K. (2022). SMEs' sustainability: Between business resilience and business growth. *Jurnal Manajemen Bisnis*, 9(1), 94-105. doi:10.33096/jmb.v9i1.69
10. Hanifatul Alfiyah, N., Widiyanto, A., & Setiawan, A. (2021). Borobudur tourist destination recommendation system using Case Base Reasoning (CBR) method. *Borobudur Informatics Review*, 1(2), 55-76. doi:10.31603/binr.5458
11. Arumi, E. R., Sukmasetya, P., & Setiawan, A. (2021). Model evaluasi usability menggunakan Confirmatory Factor Analysis pada KRS online. *Jurnal Teknologi Informasi dan Ilmu Komputer*, 8(1), 95. doi:10.25126/jtiik.0813323
12. Surahman, S., Hendradi, P., & Setiawan, A. (2021). Web-based information system for submission of standard operational procedures. *Borobudur Informatics Review*, 1(2), 109-116. doi:10.31603/binr.5823
13. Sukmasetya, P., Arumi, E. R., & Setiawan, A. (2020). Combining usability testing with in-depth interview for online credit hour website evaluation. *Khazanah Informatika*, 6(2), 109-114. doi:10.23917/khif.v6i2.10804
14. Setiawan, A., Arumi, E. R., & Sukmasetya, P. (2020). Fuzzy membership functions analysis for usability evaluation of online credit hour form. *Journal of Engineering Science and Technology*, 15(5).
15. Fatimah, Y. A., Govindan, K., Murniningsih, R., & Setiawan, A. (2020). Industry 4.0 based sustainable circular economy approach for smart waste management system. *Journal of Cleaner Production*, 269, 122263. doi:10.1016/j.jclepro.2020.122263
16. Sukmasetya, P., Setiawan, A., & Arumi, E. R. (2020). Usability evaluation of university website: A case study. *Journal of Physics: Conference Series*, 1517(1), 012071. doi:10.1088/1742-6596/1517/1/012071
17. Setiawan, A. & Widyanto, R. A. (2018). Evaluasi website perguruan tinggi menggunakan metode usability testing. *JPIT*, 3(3), 295-299. doi:10.30591/jpit.v3i3.912

CONFERENCE PAPER (9)

18. Azizah, L. M., Setiawan, A., & Isnanda, R. G. (2026). Bridging passenger clustering and user experience personalization in long-distance railway systems. *E3S Web of Conferences*, 706, 03007. doi:10.1051/e3sconf/202670603007
19. Falalangi, B., Setiawan, A., & Sukmasetya, P. (2024). UI/UX design of UMKM entrepreneurship e-catalog website using design thinking method. *BIS Information Technology and Computer Science*, 1, V124010. doi:10.31603/bistycs.127

20. Muthia, N. F., Setiawan, A., & Sukmasetya, P. (2024). UI/UX design of plant seedling sales and tracking system using design thinking method. *E3S Web of Conferences*, 500, 01019. doi:10.1051/e3sconf/202450001019
21. Avizenna, M. H., Setiawan, A., & Widyanto, A. (2023). Design and development of grants and community service research management information system. *AIP Conference Proceedings*. doi:10.1063/5.0120214
22. Nauval, I., Widyanto, R. A., Setiawan, A., et al. (2023). Implementation of GPS for tracking of street vendor. *AIP Conference Proceedings*, 2702(1), 060006. doi:10.1063/5.0154610
23. Sani, Z. A., Setiawan, A., & Nuryanto. (2023). User interface design and user experience academic applications with user centered design method. *AIP Conference Proceedings*, 2706(1), 020220. doi:10.1063/5.0120213
24. Setiawan, A. & Primadewi, A. (2020). First time user experience of academic information system: An evaluation of usability. *IOP Conference Series: MSE*, 821, 012044. doi:10.1088/1757-899X/821/1/012044
25. Putra, D. O., & Setiawan, A. (2020). The importance of user experience analysis in the design of an education information system application. *ASSEHR*, 436. doi:10.2991/assehr.k.200529.253
26. Setiawan, A., et al. (2019). Task analysis of Facebook users on frequently used menus. *Journal of Physics: Conference Series*, 1179(1). doi:10.1088/1742-6596/1179/1/012019

BOOK (1)

27. Setiawan, A. & Sukmasetya, P. (2024). Personalisasi Antarmuka Berbasis AI: Inovasi dan Manfaat di Era Industri 4.0. *UNIMMA Press*.

BOOK CHAPTER (1)

28. Fatimah, Y. A., Murniningsih, R., & Setiawan, A. (2021). Ecological smart and sustainable waste management: A conceptual framework. *EcoDesign and Sustainability II*, Springer Singapore, 177-190. doi:10.1007/978-981-15-6775-9_12

INTELLECTUAL PROPERTY

Asset Data Management System Application (Aplikasi Sistem Data Asset)	Copyright No. EC00202516819 · 2025
Primary School Information and Administration System (Sistem Informasi dan Administrasi Sekolah Dasar)	Copyright No. EC00202297503 · 2022
Online Store Interface Design with 11 Base Colours and Combinations	Copyright No. EC00202296252 · 2022
Document Upload Date Limiter (Pembatas Tanggal Unggah Dokumen)	Copyright No. EC00202043497 · 2020
Logistics Information System (Sistem Informasi Logistik)	Copyright No. EC00202040680 · 2020

GRANTS

Lecturer Development Scholarship <i>Ministry of Higher Education, Indonesia — PI</i>	2022-01-01–2022-12-31
Research Funding Grants <i>Ministry of Higher Education / Kemdikbudristek, Indonesia — PI</i>	2017-01-01–2026-12-31

SERVICE

Regional Coordinator <i>APSI PTMA</i>	2025-07-16–present
Digital Literacy Workshop <i>SMA Muhammadiyah 1</i>	2026-05-17

ACHIEVEMENTS & AWARDS

PPA Academic Achievement Scholarship	2009-01-01
Ministry of Higher Education, Indonesia	

SKILLS

LANGUAGES

Bahasa Indonesia	Expert	English	Advanced
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RESEARCH & METHODS

User-Centered Design	Expert	Design Thinking	Expert
Usability Testing (SUS, PSSUQ)	Advanced	Heuristic Evaluation	Advanced
Eye-Tracking Simulation	Intermediate		

TOOLS & TECHNICAL

Figma	Expert	Python	Advanced
PHP	Advanced	JavaScript	Advanced
SPSS	Advanced	Git	Advanced
LaTex	Advanced	Balsamiq	Intermediate
Axure RP	Intermediate	Unity	Intermediate
Blender	Intermediate	R	Intermediate