

JURNAL SISFOKOM

(SISTEM INFORMASI DAN KOMPUTER)

Journal Sisfokom, an acronym for Journal of Information Systems and Computers, is a scholarly publication resulting from a collaborative effort between the academic community of ISB Atma Luhur and various higher education institutions across Indonesia. This journal serves as a vital platform for disseminating scientific articles from researchers, academics, and practitioners in the field of information technology. With a specific focus on information systems and computer science, Journal Sisfokom consistently publishes high-quality papers in January, May, July, and November, ensuring a continuous and relevant flow of knowledge.

EDITORIAL BOARD

RESPONSIBLE PERSON

Head of LPPM Institut Sains dan Bisnis Atma Luhur

EDITOR IN CHIEF

Rahmat Sulaiman

MANAGING EDITOR

Tri Sugihartono (Institut Sains dan Bisnis Atma Luhur)

Eza Budi Perkasa (Institut Sains dan Bisnis Atma Luhur)

Rahmat Sulaiman (Institut Sains dan Bisnis Atma Luhur)

Supardi (Institut Sains dan Bisnis Atma Luhur)

Vivi Sahfitri (Universitas Bina Darma, Indonesia)

Fransiskus Panca Juniawan (Universitas Bangka Belitung, Indonesia)

Siraj (Universitas Malikussaleh, Indonesia)

Bambang Arianto (STISIP Banten Raya, Indonesia)

Shoffan Saifullah (Universitas Pembangunan Nasional Veteran Yogyakarta, Indonesia)

Laurentinus (Universitas Bangka Belitung, Indonesia)

PEER REVIEWERS

Prof. Dr. Ir. Joko Lianto Buliali, M.Sc (Institut Teknologi Sepuluh November, Indonesia)

Dr. Ir. Djoko Soetarno, D.E.A (Universitas Bina Nusantara, Indonesia)

Dr. Setiawan Hadi, M.Sc. CS. (Universitas Padjajaran, Indonesia)

Dr. Indra Budi, S.Kom., M.Kom (Universitas Indonesia, Indonesia)

- A'ang Subiyakto, Ph.D (UIN Syarif Hidayatullah Jakarta, Indonesia)
Dr. HERI, S.Kom, M.Kom (Universitas Raharja, Indonesia)
Dr. Heriyanto, A.Md., S.Kom., M.Cs (Universitas Pembangunan Nasional Veteran
Yogyakarta, Indonesia)
Dr. Ir. Untung Rahardja, MTI., MM (Universitas Raharja, Indonesia)
Novan Wijaya, S.Kom., M.Kom (AMIK MDP, Indonesia)
Silvester Dian Handy Permana, S.T., M.T.I. (Universitas Trilogi, Indonesia)
Zanuar Rifai, S.Kom., M.MSI. (Universitas Amikom Purwokerto, Indonesia)
Anjar Wanto, S.Kom., M.Kom (STIKOM Tunas Bangsa, Pematangsiantar, Indonesia)
Muhammad Nur Faiz, M.Kom (Politeknik Negeri Cilacap, Indonesia)
Molavi Arman, S.Kom., M.Kom (STMIK MDP, Indonesia)
Agus Perdana Windarto, S.Kom., M.Kom (STIKOM Tunas Bangsa, Indonesia)
Usman Ependi, M.Kom (Universitas Bina Darma, Indonesia)
Oris Krianto Sulaiman, S.T., M.Kom (Universitas Islam Sumatera Utara, Indonesia)
Harrizki Arie Pradana, S.Kom, MT (Institut Sains dan Bisnis Atma Luhur, Indonesia)
Harma Oktafia Lingga Wijaya, M.Kom (STMIK Musirawas Lubuklinggau, Indonesia)
Ramos Somya, S.Kom., M.Cs (Universitas Kristen Satya Wacana, Indonesia)
Adil Setiawan, S.Kom., M.Kom (Universitas Potensi Utama, Indonesia)
Bahtiar Imram, S.ST., M.TI (Universitas Teknologi Mataram, Indonesia)
Agus Junaidi, S.Kom., M.Kom (Universitas Bina Sarana Informatika, Indonesia)
Astrid Lestari Tungadi, S.Kom., M.TI (Universitas Atma Jaya Makassar, Indonesia)
Dudih Gustian, ST., M.Kom (Universitas Nusa Putra, Indonesia)
Dr. Nihar Athreyas (Spero Devices, Inc. Springfield, United States)
Dr. Kurniabudi (Universitas Dinamika Bangsa, Indonesia)
Dr. Heny Pratiwi, S.Kom., M.Pd., M.TI (STMIK Widya Cipta Dharma, Indonesia)
Al Hafiz Akbar Maulana Siagian, Ph.D (Badan Riset dan Inovasi Nasional, Indonesia)
Khairun Nisa Meiah Ngafidin, S.Pd., M.Kom (Institut Teknologi Telkom Purwokerto,
Indonesia)
Puji Winar Cahyo, S.Kom., M.Cs.(Universitas Jenderal Achmad Yani Yogyakarta,
Indonesia)
Adhithia Erfina, S.T., M.Kom (Universitas Nusa Putra, Indonesia)
Muhammad Fadlan, M.Kom (STMIK PPKIA Tarakanita Rahmawati, Indonesia)
Herliyani Hasanah, MT (Universitas Duta Bangsa Surakarta, Indonesia)
Oman Somantri, S.Kom., M.Kom (Politeknik Negeri Cilacap, Indonesia)
Suprianto, S.Kom., M.Kom (STMIK PPKIA Tarakanita Rahmawati, Indonesia)
Hendra Gunawan, S.T., M.Kom (STMIK IM, Indonesia)
Anggara Trisna Nugraha, MT (Politeknik Perkapalan Negeri Surabaya, Indonesia)
Dimas Sasongko, S.Kom., M.Eng (Universitas Muhammadiyah Magelang, Indonesia)
Dr. Hetty Rohayani, ST., M.Kom (Universitas Muhammadiyah Jambi, Indonesia)
Kresna Ramanda, M.Kom (STMIK Nusa Mandiri, Indonesia)
Lusiana, M.Kom (STMIK AMIK Riau, Indonesia)
Resad Setyadi, S. S.I, ST, M. M.S.I (Institut Teknologi Telkom Purwokerto, Indonesia)
Rometdo Muzawi, M.Kom (STMIK AMIK Riau, Indonesia)
Susandri, M.Kom (STMIK AMIK Riau, Indonesia)

Tegar Arifin Prasetyo, M.Si (Institut Teknologi Del, Indonesia)
Titus Kristanto, M.Kom (Institut Teknologi Telkom Surabaya, Indonesia)
Yunita, M.Kom (Universitas Nusa Mandiri Jakarta, Indonesia)
Dr. David, M.Cs., M.Kom (STMIK Pontianak, Indonesia)
Assoc. Prof. Dr. Sandy Kosasi, M.M., M.Kom (STMIK Pontianak, Indonesia)
Dr. Susanto, M.Kom (Universitas Bina Insan, Indonesia)
Garno, S.Kom., M.Kom (Universitas Singaperbangsa Karawang, Indonesia)
Febria S Handayani, S.Kom., M.Kom (Institut Teknologi dan Bisnis PalComTech, Indonesia)
Muhammad Rizky Pribadi, S.Kom., M.Kom (Universitas Multi Data Palembang, Indonesia)
Rivalri Kristianto Hondro, S.Kom., M.Kom (Universitas Budi Darma, Indonesia)
Muchamad Rusdan, S.T., M.T (Sekolah Tinggi Teknologi Bandung, Indonesia)
Yoga Priatyanto, S.Kom., M.Eng (Universitas Amikom Yogyakarta, Indonesia)
Ardiansyah, S.Kom., M.Kom (Universitas Muhammadiyah Klaten, Indonesia)
Yogi Isro Mukti, S.Kom., M.Kom (Institut Teknologi Pagar Alam, Indonesia)
M. Agus Syamsul Arifin, S.ST., M.Kom (Universitas Bina Insan, Indonesia)
Yulmaini, S.Kom., M.Cs (Institut Informatika dan Bisnis Darmajaya, Indonesia)
Assoc. Prof. Dr. Solikhun, S.Kom., M.Kom (STIKOM Tunas Bangsa, Indonesia)

SECRETARIAT

LPPM Institut Sains dan Bisnis Atma Luhur
Jl. Jend. Sudirman, Selindung Baru, Pangkalpinang
Kepulauan Bangka Belitung - Indonesia
Telp. (0717) 433 506 Fax. (0717) 433 506
e-mail: sisfokom@atmaluhur.ac.id - lppm@atmaluhur.ac.id

EDITOR'S FOREWORD

Journal Sisfokom (Information Systems and Computers) stands as a distinguished scholarly publication, meticulously managed and proudly issued by the LPPM ISB Atma Luhur Pangkalpinang.

This particular edition, Volume 15, Number 01 – January 2026, exemplifies a robust collaborative endeavor that unites the academic prowess of ISB Atma Luhur with a diverse array of esteemed universities across Indonesia.

The editorial board extends its profound gratitude to our dedicated lecturers for their invaluable participation and unwavering cooperation. Their significant contributions have been pivotal, enabling the timely and successful publication of Jurnal Sisfokom (Information Systems and Computers) Volume 15 Number 01 – January 2026, precisely in accordance with our meticulously laid plans.

Additionally, the editorial board extends its profound appreciation to the distinguished experts, both internal and external to ISB Atma Luhur, whose invaluable contributions in thoroughly assessing and meticulously refining the submitted manuscripts have been absolutely critical to the quality of this publication.

On this occasion, the editorial board cordially invites and extends the broadest possible opportunity to all researchers, fellow lecturers, and discerning scholars/practitioners in both Information Systems and Informatics Engineering to contribute and publish their research findings through this esteemed journal.

Ultimately, the editorial board sincerely hopes that the scholarly articles published within this journal will yield substantial benefits for the entire academic community at ISB Atma Luhur, and profoundly contribute to the broader advancement of science and information technology.

Editorial,

TABLE OF CONTENTS

COVER	i
EDITORIAL BOARD	ii
EDITORIAL FOREWORD.....	iv
TABLE OF CONTENTS.....	v
Decision Prioritization with MCDM in Post-Disaster Management: A PRISMA-Guided Systematic Review and Bibliometric Mapping	
<i>Agusta Praba Ristadi Pinem, Rahmat Gernowo, Sorja Koesuma.....</i>	<i>1-7</i>
Face Recognition for Attendance Systems: A Bibliometric Review of Research Trends and Opportunities	
<i>Agustiyar Agustiyar, R. Rizal Isnanto, Catur Edi Widodo.....</i>	<i>8-13</i>
Large Language Models in Accounting Tasks: Driving Factors and Ethical Dilemmas Among Accounting Students	
<i>Katherine Olivia Josephine, Thia Margaretha Tarigan, Weli Weli.....</i>	<i>14-23</i>
Machine Learning for Post-Disaster Building Damage Classification and Rehabilitation Recommendation: A Review	
<i>Eka Rahmawati, Catur Edi Widodo, Sorja Koesuma.....</i>	<i>24-32</i>
Harnessing Remote Sensing for Soil Erosion Prediction: A Bibliometric Review of RUSLE Applications	
<i>Adi Fajaryanto Cobantoro, Mochamad Agung Wibowo, Ridwan Sanjaya.....</i>	<i>33-39</i>
A Systematic Literature Review of Adaptive Machine Learning Approaches for Real-Time Fuel Efficiency Optimization in Open-Pit Mining Trucks	
<i>Kusnawi, Mochamad Agung Wibowo, Ridwan Sanjaya.....</i>	<i>40-46</i>
Detection of Reconnaissance Attacks Using a Hybrid CNN–LSTM on IoT Network	
<i>Susanto, Budi Arif Dermawan, Rasenda Rasenda.....</i>	<i>47-54</i>

A Systematic Literature Review and Bibliometric Analysis on Forest Fire Prediction Models
Gregorius Anung Hanindito, Gregorius Anung Hanindito, Mochamad Agung Wibowo, Ridwan Sanjaya..... 55-60

Mapping Bitcoin Research in Information Systems: A Comprehensive Bibliometric Analysis (2008–2025)
Akhlis Munazilin, Mochamad Agung Wibowo, Rizky Parlita..... 61-68

Literature-Driven Contributions to the Development of LLM-Based Customer Insight Systems
Irwan Andriyanto Nugroho, Kusworo Adi, Komang Budi Aryasa..... 69-74

Automatic Detection of Cyberbullying on Text, Image, and Video: A Systematic Literature Review
Achmad Fitro, Achmad Fitro, Mochamad Agung Wibowo, Catur Edi Widodo..... 75-80

Forecasting Fuel Logistics Demand in Archipelagic Regions Using the ARIMA Methods: A Case Study of the Anambas Islands Regency
Eka Suswaini, Mochammad Agung Wibowo, Ferry Jie..... 81-87

Unstacking the Stack: Synthesis of Optimization Strategies for Stacked Ensemble Models in Multi-Domain Contexts
Carolus Borromeus Widiyatmoko, Rahmat Gernowo, Budi Warsito..... 88-94

Spatial Recommendation Model for Internet Infrastructure Needs in Indonesia Using GIS
Irena Widjaja, Rizal Isnanto, Maman Somantri, Sarah..... 95-102

Optimized Machine Learning Approach for Malware Detection using Bayesian Optimization
Hilman Singgih Wicaksana, Khairul Huda..... 103-111

Integration of K-Means Clustering, Random Forest, and RFM Analysis for Optimizing Consumer Segmentation in Digital Advertising Strategies
Joang Ipmawati, Kusnawi Kusnawi..... 112-118

Toward an Adaptive IPO-Based Information Systems Framework for Customer Churn Management
Mohammad Syibli, Rahmat Gernowo, Bayu Surarso, Aldi Setiawan, Nur Andi Setiabudi
..... 119-124

Performance Evaluation of Cloud-Init as Deployment Automation, Virtual Machine, and LXC Container on Proxmox VE for AI LLM Deployment

Jody Jody, Febry Aryo Riandhito, Rika Yusuf, Anggi Saputra, Jan Everhard Riwurohi

..... 125-132

ResNet50-Based Deep Learning Architecture with Focal Loss Optimization for Automated Fruit Ripeness Classification

Stefani Hardiyanti Putri, Nasrullah Nasrullah, Fefi Maulana, Prilia Rahmayanti, Efmi Maiyana

..... 133-143

Optimization Of Digital Marketing Utilization Based on E-Commerce to Enhance Sales and Marketing

Adinda Dwi Larasati, Anita Diana..... 144-150

Teacher Selection Analysis at Pangkalpinang Baptist School Using SAW Method

Fitriyani Fitriyani, Devi Irawan, Ari Amir Alkodri, Yuyi Andrika, Melati Suci Mayasari,

Chandra Kirana..... 151-156