

ISSN 2443-2555 (online)
ISSN 2598-6333 (print)

Journal of Information Systems Engineering and Business Intelligence

Volume 6 Number 2, October 2020



<http://e-journal.unair.ac.id/index.php/JISEBI>

Journal of Information Systems Engineering and Business Intelligence

Volume 6 Number 2, October 2020

Editorial Team

Editor-in-Chief

Indra Kharisma Raharjana, S.Kom., M.T.
Universitas Airlangga, Indonesia

Deputy Editor-in-Chief

Nasa Zata Dina, S.Kom., M.Kom., M.Sc.
Universitas Airlangga, Indonesia

Editorial Board Members

Ahmad Hoirul Basori, S.Kom., M.Sc., Ph.D.
King Abdulaziz University, Kingdom of Saudi Arabia

Ary Mazharuddin Shiddiqi, S.Kom., M.Comp.Sc., Ph.D.
Institut Teknologi Sepuluh Nopember, Indonesia

Daniel Oranova Siahaan, S.Kom.,M.Sc.,P.D.Eng.
Institut Teknologi Sepuluh Nopember, Indonesia

Dr. Edio da Costa
Dili Institute of Technology (DIT), Timor-Leste

Ira Puspitasari, S.T., M.T. Ph.D.
Universitas Airlangga, Indonesia

Dr. Indrajit De
MCKV Institute of Engineering, India

Lanto Ningrayati Amali, S.Kom.,M.Kom., Ph.D.
Universitas Negeri Gorontalo, Indonesia

Md. Asraful Haque, Ph.D.
Aligarh Muslim University, India

Dr. Marwan Ibrahim Alshar'e
Gulf College, Oman

Mashal Kasem Alqudah, Ph.D.
Universiti Kebangsaan Malaysia, Malaysia

Dr. Mujiono Sadikin, S.T., M.T., CISA
Universitas Mercu Buana, Indonesia

Mohammad Rustom Al Nasar, Ph.D.
Jadara University, Jordan

Mohammad Sharf Al-Qdah, Ph.D.
Sur University College, Oman

Nur Aini Rakhmawati, S.Kom., MSc.Eng., Ph.D.
Institut Teknologi Sepuluh Nopember, Indonesia

Dr. Norhaslinda Kamaruddin
Universiti Teknologi MARA, Malaysia

Dr. Umesh Kumar Lilhore
SAGE University, India

Dr. Rahmadya Trias Handayanto
Islam 45 University, Indonesia

Dr. Rimuljo Hendradi, S.Si., M.Si.
Universitas Airlangga, Indonesia

Dr. Shukor Sanim Mohd Fauzi
Universiti Teknologi MARA Perlis, Malaysia

Dr. Ummi Azizah Rachmawati
Universitas YARSI, Indonesia

Associate Editors

Aye Mon Tun, M.Sc.
University of Computer Studies, Myanmar

Army Justitia, S.Kom., M.Kom.
Universitas Airlangga, Indonesia

Badrus Zaman, S.Kom., M.Cs.
Universitas Airlangga, Indonesia

Dr. Diana Purwitasari, S.Kom., M.Sc.
Institut Teknologi Sepuluh Nopember, Indonesia

Dina Fitria Murad, S.Kom., M.Kom.
Universitas Bina Nusantara, Indonesia

Eva Hariyanti, S.Si., M.T.
Universitas Airlangga, Indonesia

Faried Effendy S.Si. M.Kom.
Universitas Airlangga, Indonesia

Oscar Karnalim, S.T., M.T.
The University of Newcastle, Australia

Purbandini, S.Si., M.Kom.
Universitas Airlangga, Indonesia

Yutika Amelia Effendi, S.Kom., M.Kom.
Universitas Airlangga, Indonesia

Secretariat

Program Studi Sistem Informasi
Fakultas Sains dan Teknologi Universitas Airlangga
Kampus C Jl. Mulyorejo Surabaya (60115)
Indonesia
Telp. (031) 5936501, 5924614 Fax (031) 5936502

Publisher

Universitas Airlangga
<http://e-journal.unair.ac.id/index.php/JISEBI>

Journal of Information Systems Engineering and Business Intelligence is indexed/abstracted in Crossref, Google Scholar, SINTA (Science and Technology Index), Indonesian Scientific Journal Database, Portal Garuda IPI, Bielefeld Academic Search Engine (BASE), Indonesia OneSearch, Microsoft Academic, and Norwegian Centre for Research Data.

Journal of Information Systems Engineering and Business Intelligence has been Accredited by Directorate General of Research and Development Strengthening, Ministry of Research, Technology and Higher Education of the Republic of Indonesia with Peringkat 2 (SINTA 2) since the year 2016 to 2020 according to the decree number 21/E/KPT/2018 dated 9th July 2018.

Journal of Information Systems Engineering and Business Intelligence

Journal of Information System Engineering and Business Intelligence (JISEBI) aims to promote high-quality Information Systems (IS) research to computer scientists and IS professionals. Critical success factors to achieve these goals include:

- Maintain the highest quality standards.
- Attract international authors and promote Indonesian authors to publish high-quality Information Systems research.
- Provide a timely manner editorial assessment of the submitted manuscript.

JISEBI is published bi-annually by Universitas Airlangga. Contributed papers must be original and offer a state-of-the-art contribution. Each manuscript will be reviewed by at least two independent reviewers in the relevant field ensuring the publication of only top-quality contributions. JISEBI offer open-access license (CC-BY), authors retain the copyright.

The journal publishes research articles and reviews articles in areas of Information System Engineering and Business Intelligence. Information System Engineering is a multidisciplinary approach to all activities in the development and management of information systems aiming to achieve organizational goals. Business Intelligence (BI) focuses on techniques to transfer raw data into meaningful information for business analysis purposes to achieve sustainable competitive advantage. Areas of interest in Information System Engineering and Business Intelligence include but are not limited to the following topics: Management of Information Systems, IT Organizational Governance, Information Systems Theory and Practices, Data Analysis, Artificial Intelligence, Decision Support System, Computer Science, and Software Engineering

JISEBI has been Accredited by Directorate General of Research and Development Strengthening, Ministry of Research, Technology and Higher Education of the Republic of Indonesia with Peringkat 2 (SINTA 2) since the year 2016 to 2020 according to the decree number 21/E/KPT/2018 dated 9th July 2018. Indexed by Crossref, ROAD, Google Scholar, BASE, SINTA, Microsoft Academic, and Norwegian Centre for Research Data.

[This Page Intentionally Left Blank]

Journal of Information Systems Engineering and Business Intelligence

Volume 6 Number 2, October 2020

Table of Contents

Trends and Patterns of The Internet Use During School Holidays <i>Khalid, Indri Sudanawati Rozas, Dwi Rolliawati.....</i>	89-98
Moving Object Detection Using Ultrasonic Radar with Proper Distance, Direction, and Object Shape Analysis <i>Angona Biswas, Sabrina Abedin, Md. Ahsan Kabir.....</i>	99-111
Tweets Responding to the Indonesian Government's Handling of COVID-19: Sentiment Analysis Using SVM with Normalized Poly Kernel <i>Pulung Hendro Prastyo, Amin Siddiq Sumi, Ade Widyatama Dian, Adhistya Erna Permanasari.....</i>	112-122
Booking Prediction Models for Peer-to-peer Accommodation Listings using Logistics Regression, Decision Tree, K-Nearest Neighbor, and Random Forest Classifiers <i>Mochammad Agus Afrianto, Meditya Wasesa.....</i>	123-132
Smart Dissemination by Using Natural Language Processing Technology <i>Tora Fahrudin, Kastaman, Sherin Nadya Meideni, Padma Edhitya Chairunnisafa Priyono, Muhammad Galang Fathirkina, Samira.....</i>	133-142
Thesis Supervisor Recommendation with Representative Content and Information Retrieval <i>Maresha Caroline Wijanto, Rachmi Rachmadiany, Oscar Karnalim.....</i>	143-150
Dynamic Steganography Least Significant Bit with Stretch on Pixels Neighborhood <i>Muhammad Khoiruddin Harahap, Nurul Khairina.....</i>	151-158
Information Privacy Concerns Among Instagram Users: The Case of Indonesian College Students <i>Eko Wahyu Tyas Darmaningrat, Hanim Maria Astuti, Fadhila Alfi.....</i>	159-168

[This Page Intentionally Left Blank]