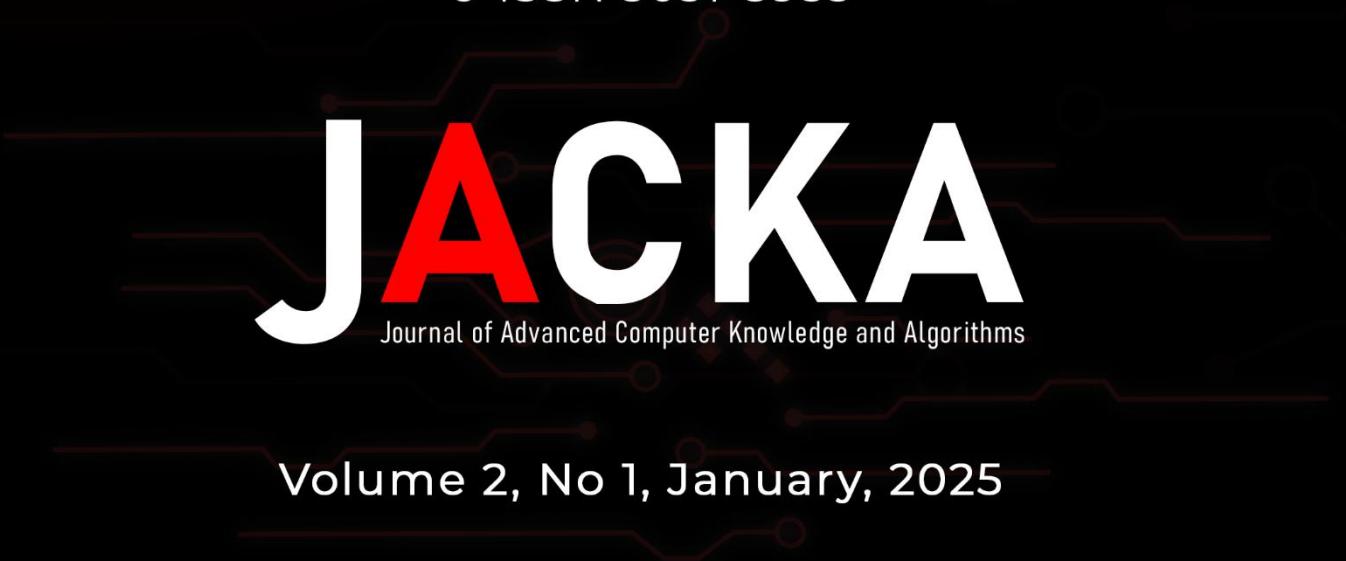


e-ISSN 3031-8955



JACKA

Journal of Advanced Computer Knowledge and Algorithms

Volume 2, No 1, January, 2025

EDITORIAL BOARD**Chief in Editor****Sujacka Retno, S.T., M.Kom**, Universitas Malikussaleh**Section Editor****Rozzi Kesuma Dinata, S.T., M.Eng**, Universitas Malikussaleh
Said Fadlan Anshari, S.Kom., M.Kom, Universitas Malikussaleh**Editor****Wahyu Fuadi, S.T., M.IT**, Universitas Malikussaleh
Novia Hasdyna, S.T., M.Kom, Universitas Islam Kebangsaan Indonesia
Ahmad Ihsan, S.T., M.T, Universitas Samudra
Firma Sahrul Bahtiar, M.Eng, UIN Maulana Malik Ibrahim Malang
Diah Ayu Retnani Wulandari, S.T., M.Eng, Universitas Jember
Ummu Radiyah, S.Kom., M.Eng, Universitas Nusa Mandiri**Assistant Editor****Kurniawati, S.Pd., M.A**, Universitas Malikussaleh
Baringin Sianipar, S.Kom., M.Kom, STMIK Pelita Nusantara**Peer Reviewers****Prof. Dr. Muhammad Zarlis, M.Sc**, Universitas Bina Nusantara
Prof. Dr. Syahril Efendi, M.IT, Universitas Sumatera Utara
Prof. Dr. Herman Mawengkang, Universitas Sumatera Utara
Prof. Dr. Dahlan Abdullah, S.T., M.Kom, Universitas Malikussaleh
Dr. Erna Budhiarti Nababan, M.IT, Universitas Sumatera Utara
Dr. Eng. Muhammad Fikry, S.Kom., M.Kom, Universitas Malikussaleh
Munirul Ula, S.T., M.Eng., Ph.D, Universitas Malikussaleh
Dr. Nurdin, S.Kom., M.Kom, Universitas Malikussaleh**Published by**Universitas Malikussaleh
Jl. Batam. Kampus Bukit Indah. Gedung Prodi Teknik Informatika. Blang Pulo.
Lhokseumawe. Aceh. Indonesia.**Contact Person**Mail to: jacka@unimal.ac.id

ACKNOWLEDGEMENTS

We are delighted to present the issue of the Journal of Advanced Computer Knowledge and Algorithms, Volume 1, Number 1, for the month of January 2025. This milestone would not have been possible without the dedicated efforts of numerous individuals and organizations.

First and foremost, we extend our sincere gratitude to the authors who have contributed their insightful research articles to this edition. Your commitment to advancing computer knowledge and algorithms is truly commendable.

We would also like to express our appreciation to the peer reviewers who generously shared their expertise and provided constructive feedback to enhance the quality of the submitted manuscripts. Your invaluable contributions have played a pivotal role in maintaining the high standards of JACKA.

Furthermore, our heartfelt thanks go to the editorial board members for their tireless efforts in the review and selection process. Your commitment to ensuring the relevance and rigor of the journal has been instrumental in shaping the content of this issue.

Last but not least, we would like to thank our readers and the broader academic community for their interest in JACKA. Your support is crucial in establishing JACKA as a reputable platform for disseminating cutting-edge research in the field of computer knowledge and algorithms.

We are excited about the journey ahead and look forward to continuing to serve as a valuable resource for researchers and practitioners alike. Thank you for being a part of the JACKA community.

Sincerely,

[Sujacka Retno, S.T., M.Kom]

Editor-in-Chief

Journal of Advanced Computer Knowledge and Algorithms

TABLE OF CONTENTS

Editorial Board	i
Acknowledgements	ii
Table of Contents.....	iii
Geographic Information System for Mapping Drug Abuse Areas in Lhokseumawe City Using the Average Linkage Method	
Icut Syintia, Wahyu Fuadi, Zara Yunizar.....	1-6
Decision Support System for Selecting the Best Facial Wash Brand for Acne-Prone Skin Using the Fuzzy Analytical Hierarchy Process (F-AHP) Method	
Devira Yuda Armaya, Lidya Rosnita, Asrianda, Aulia Rachman, Muhammad Azhari	7-11
Systematic Literature Review of Sentiment Analysis on Various Review Platforms in the Tourism Sector	
Cherlina Helena Purnamasari Panjaitan	12-18
Implementation of the Secure Hashing Algorithm-512 (SHA-512) for Sign-Up Page Security in the KelasSeru Tutoring System	
Cut Agusniar, Ira Fazira, Laili Wahyunita	19-23
The Application of Decision Tree C4.5 to Determine College Majors for Students After Madrasah Aliyah (Case Study: Madrasah Aliyah Misbahul Ulum)	
Tasya Mulyani, Bustami	24-29