

UNIVERSITAS BUMIGORA



Volume 22 No. 3

MATRIK

Jurnal : Manajemen, Teknik Informatika dan Rekayasa Komputer

e-ISSN 2476-9843
p-ISSN 1858-4144

MATRIK

Jurnal: Manajemen, Teknik Informatika & Rekayasa Komputer

Volume 22 Number 3, July 2023

MATRIK Journal is a publication forum for lecturers/researchers/practitioners who contain research results and scientific studies in computer science and informatics. This journal is published three times a year (March, July, and November) and is managed by the Institute for Research and Community Service (LPPM) of Universitas Bumigora.

Penanggung Jawab:

Head of LPPM Universitas Bumigora

Editorial Board:

Lalu Ganda Rady Putra

Dadang Priyanto

Khairan Marzuki

Hairani

Andi Sunyoto

Irwan Oyong

Choerun Asnawi

Reviewer:

Anthony Anggrawan

Bambang Krismono T

Dian Syafitri Chani Saputi

Teddy Mantoro

Media Anugerah Ayu

Che Ku Nuraini

Zulfian Azmi

Evi Triandini

Arief Setyanto

Irawan Afrianto

Suwanto Raharjo

Aji Supriyanto

Deny Jollyta

Assistant Editor:

Andika Ellena Saufika HM

Dinda Lestari

Editorial Address:

LPPM Universitas Bumigora

Jl. Ismail Marzuki-Cilinaya-Cakranegara-Mataram 83127 Phone: +6285-933-083-240

E-mail: matrik@universitasbumigora.ac.id

Website: <http://jurnal.universitasbumigora.ac.id/index.php/matrik>

FOREWORD

The editorial praise goes to the presence of Allah SWT. God Almighty, thanks to whose grace and guidance the MATRIK Journal volume 22 no 3 edition of July 2023 can be completed. This issue presents publications of research results in Information Systems, Intelligent Systems, and Computer Networks. In addition, studies on learning technology based on previous research results are also presented. The editor would like to thank the parties who have contributed their thoughts so that the publication of the MATRIK Journal volume 22 no 3 edition July 2023 can be realized. The editor hopes that the research results presented in this publication can be helpful for readers, especially the academic community.

Mataram, July 2023

Editorial

MATRIK

Jurnal : Manajemen, Teknik Informatika & Rekayasa Komputer

Volume 22 Number 3, July 2023

TABLE OF CONTENTS

Drowsiness Detection Based on Yawning Using Modified Pre-trained Model MobileNetV2 and ResNet50	419 - 430
Hepatika Zidny Ilmadina, Muhammad Naufal, Dega Surono Wibowo	
Comparison of Machine Learning Methods for Classifying User Satisfaction Opinions of the PeduliLindungi Application	431 - 442
Putu Tisna Putra, Anthony Anggrawan, Hairani Hairani	
Automation Reporting Bed Efficiency Using Verification and Validation Method	443 - 454
Iis Gugum Gumilar, Yuda Syahidin, Erix Gunawan, Jeri Sukmawijaya	
Automated Detection of Breast Cancer Histopathology Image Using Convolutional Neural Network and Transfer Learning	455 - 468
Didih Rizki Chandranegara, Faras Haidar Pratama, Sidiq Fajrianur, Moch Rizky Eka Putra, Zamah Sari	
Detecting Vehicle Numbers Using Google Lens-Based ESP32CAM to Read Number Characters	469 - 480
Tukino Paryono, Ahmad Fauzi, Rizki Aulia Nanda, Saepul Aripriyanto, Muhammad Khaerudin	
OWASP Framework-based Network Forensics to Analyze the SQLi Attacks on Web Servers	481 - 494
Imam Riadi, Abdul Fadlil, Muhammad Amirul Mu'min	

Hate Speech Detection for Banjarese Languages on Instagram Using Machine Learning Methods

495 - 504

Muhammad Alkaff, Muhammad Afrizal Miqdad, Muhammad Fachrurrazi,
Muhammad Nur Abdi, Ahmad Zainul Abidin, Raisa Amalia

Optimizing the Amount of Production using Hybrid Fuzzy Logic and Cencus II	505 - 518
Susana Limanto, vincentius Riandaru Prasetyo, Mirella Mercifia	
Evading Antivirus Software Detection Using Python and PowerShell Obfuscation Framework	519 - 528
Umar Aditiawarman, Alfian Dody, Teddy Mantoro, Haris Maarif, Anggy Pradiftha	
Incorporating User Experience Evaluation into Application Design for Optimal Usability	529 - 538
Helen Sastypratiwi, Yulianti Yulianti, Hafiz Muhardi, Desepta Isna Ulumi	
Comparison Of Support Vector Machine Performance with Oversampling and Outlier Handling in Diabetic Disease Detection Classification	539 - 552
Firda Yunita Sari, Maharani sukma Kuntari, Hani Khaulasari, Winda Ari Yati	
Image Processing Using Morphology on Support Vector Machine Classification Model for Waste Image	553 - 566
Miftahuddin Fahmi, Anton Yudhana, Sunardi Sunardi	
E-Mortality using Agile Scrum Method to Improve Information Services Effectiveness.	567 - 582
Ardafa Ihromi, Yuda Syahidin, Erix Gunawan, Neneng Yuniarty	
Data Mining Earthquake Prediction with Multivariate Adaptive Regression Splines and Peak Ground Acceleration	583 - 592
Dadang Priyanto, Bambang Krismono Triwijoyo, Deny Jollyta, Hairani Hairani, Ni Gusti Ayu Dasriani	
K Value Effect on Accuracy Using the K-NN for Heart Failure Dataset	593 - 604
Alya Masitha, Muhammad Kunta Biddinika, Herman Herman	
Social Media Engagement and Student's Intention in Indonesian Higher Education Using Unified Theory of Acceptance and Use of Technology	605 - 614
Matrissya Hermita, Budi Hermana, Suryadi Harmanto, Adang Suhendra, Munawir Pasaribu	
Digital Forensic Analysis of WhatsApp Business Applications on Android-Based Smartphones Using NIST	615 - 626
William Barkem, Jeckson Sidabutar	

Performance Prediction of Airport Traffic Using LSTM and CNN-LSTM Models

Willy Riyadi, Jasmir Jasmir

627 - 638

IoT-based Integrated System Portable Prayer Mat and Daily Worship Monitoring System

Luh Kesuma Wardhani, Nenny Anggraini, Nashrul Hakiem, M. Tabah Rosyadi, Amin Rois

639 - 650

Forensic Analysis of Body Shaming Cases on the IMO Messenger Application using the Association of Chief Police Officers Framework

Yana Safitri, Imam Riadi, Sunardi Sunardi

651 - 664

p-ISSN : 1858-4144



UNIVERSITAS BUMIGORA



WWW.UNIVERSITASBUMIGORA.AC.ID

LPPM

JL. ISMAIL MARZUKI, CAKRANEGARA, MATARAM
NUSA TENGGARA BARAT

KODE POS : 83121, TELEPON (0307)634498, FAX (0370)634498