



**Jurnal Informatika
dan Multimedia**

**VOLUME 17
NO.2, 2025**

eISSN: 2548-4710



pISSN: 2252-486X



Published by:
State Polytechnic of Malang
jtim@polinema.ac.id
www.polinema.ac.id



Jurnal Informatika dan Multimedia is intended for academics, researchers and developers to publish research results, discoveries, ideas and concepts in the scope of information technology. This journal is managed and published by the D3 Informatics Management Study Program, Politeknik Negeri Malang PSDKU in Kediri. This research publication journal is issued regularly twice a year, in **June** and **December**. The scientific articles included in this journal focus on Information Technology topics such as: *computer science, information technology, software development, and computer automation*.

Chairman

Director of Politeknik Negeri Malang

Person-in-Charge

PSDKU Polinema Kediri Coordinator
Head of P3M Politeknik Negeri Malang

Reviewer

Erfan Rohadi, S.T., M.Eng, Ph.D.
Dr. Selvia Ferdiana Kusuma, M.Kom.
Dr. Ardiansyah S.T., M.Cs.
Yan Watequlis Syaifudin, ST., M.MT., Ph.D.
Mohammad Farid Naufal, S.Kom., M.Kom.
Abidatul Izzah, S.Si., M.Kom.
Hartatik, S.T., M.Cs.
Jani Kusanti, S.Kom., M.Cs.
Nurul Khairina, S.Kom., M.Kom.
Benni Agung Nugroho, S.Kom., M.Cs.

Editor-in-Chief

Ellya Nurfarida, S.T., M.Cs.

Editor

Fitri Retrialisca, S.Kom., M.Kom.
Kunti Eliyen, S.Kom., M.T.
Daniel Swanjaya, S.Kom., M.Kom.
Harliana, S.T., M.Cs.
Agustono Heriadi, S.ST. M.Kom.
Fery Sofian Efendi, S.Kom., M.Cs.
Fikha Rizky Aullia, M.Pd.

Administration

Ari Kuswinda, S.T.

Table of Contents

Real-Time Cheating Detection in Exam Halls Using Computer Vision and Embedded Systems

Badri Narayan Mohapatra, Shivani Kudale, Pranjal Nandagude, Sagar Jagtap

60-65

Perbandingan Kinerja Algoritma Machine Learning Logistic Regression dan XGBoost dalam Memprediksi Gangguan Tidur dengan Analisis SHAP

Reza Fitriansyah, Ahmad Fauzan Baihaqi

66-67

Klasifikasi Penyakit Padi Dengan Menggunakan Algoritma Swarm Optimization Untuk Optimasi Metode Backpropagation

Zulkarnaen, Fendy Yulianto, Abdul Rahim

78-87

Pengembangan Aplikasi Mobile untuk Pemantauan Hama Tikus dan Kelembaban Lahan Pertanian Padi di Kelurahan Pabahanan

Lailan Husnati, Aida Sekar Ningrum, Rahma Raihani, Evy Ariani, Khotimatul Alimah

88-95

Monita: Aplikasi Identifikasi Gizi Buruk Balita Berbasis Mobile

Ellya Nurfarida, Fadelis Sukya, Fikha Rizky Aullia, Ratna Widyastuti

96-103

Space Rock Pixel Perancangan Space Rock Pixel Game Antariksa Menggunakan Game Maker Language

Stevanus Oktoberrikho, Yansensius Reins Dima, Rendy, Candra Gudiato, Christian Cahyaningtyas

104-111

Deteksi Plat Nomor Kendaraan Angkutan Bus Menggunakan YOLOv11

Benni Agung Nugroho, Toga Aldila Cinderatama, Abidatul Izzah, Ellya Nurfarida

112-120

Hamisfera: Sistem Rekomendasi Progresi Chord Berbasis Sentimen Lirik Melalui Studi Komparatif Arsitektur Transformer dan Mixture of Experts

Fara Daud Ibra, Muhammad Fachrie

121-133

The background is a solid blue color with several white geometric shapes. There are two long, thin white lines that appear to be part of a larger structure. One line starts from the top right and goes towards the center. Another line starts from the bottom left and goes towards the center. There is also a white parallelogram shape in the upper left quadrant.

**Copyright © Jurnal Informatika dan Multimedia
UPT P2M Politeknik Negeri Malang**

Politeknik Negeri Malang PSDKU Kediri
Jalan Lingkar Maskumambang No. 1, Sukorame, Mojoroto, Kediri