



ISSN 2988-1013
VOLUME 3, NUMBER 2, DECEMBER 2025

<https://mjomaf.ppj.unp.ac.id/>



**MATHEMATICAL JOURNAL OF
MODELLING AND FORECASTING**



Published by:
LPPM Universitas Negeri Padang

VOLUME 3, NUMBER 2, DECEMBER 2025

ISSN 2988-1013



MATHEMATICAL JOURNAL OF MODELLING AND FORECASTING

The Mathematical Journal of Modelling and Forecasting are scientific journal in the fields of mathematics, statistics, actuarial, financial mathematics, computational mathematics, and applied mathematics. This journal is published twice a year, precisely in June and December in an online version. All publications are available in full text and free to download

Published by:

LPPM Universitas Negeri Padang

Organized by:

**Data Analytics, Mathematical Modelling, and
Forecasting Research Group**

FACULTY OF MATHEMATICS AND NATURAL SCIENCE
UNIVERSITAS NEGERI PADANG
INDONESIA



MATHEMATICAL JOURNAL OF MODELLING AND FORECASTING

Editor in Chief :	
Devni Prima Sari	Universitas Negeri Padang, Indonesia Scopus ID Google Scholar SINTA ID ORCID ID: https://orcid.org/0000-0003-0382-8973
Associate Editors :	
Adhitya Ronnie Effendie	Universitas Gadjah Mada, Indonesia Scopus ID Google Scholar SINTA ID ORCID ID: https://orcid.org/0000-0002-0840-6318
Sifriyani	Universitas Mulawarman, Indonesia Scopus ID Google Scholar SINTA ID ORCID ID: https://orcid.org/0000-0002-4616-775X
Fitriani	Universitas Lampung, Indonesia Scopus ID Google Scholar SINTA ID ORCID ID: https://orcid.org/0000-0002-7552-9107
Nurhaida	Universitas Papua, Indonesia Scopus ID Google Scholar SINTA ID ORCID ID: https://orcid.org/0000-0002-3729-1097
Dodi Vionanda	Universitas Negeri Padang, Indonesia Scopus ID Google Scholar SINTA ID ORCID ID: https://orcid.org/0000-0001-5341-4256
Yenni Kurniawati	Universitas Negeri Padang, Indonesia Scopus ID Google Scholar SINTA ID ORCID ID: https://orcid.org/0000-0002-7985-9103
International Editorial Board:	
Habshah Midi	Universiti Putra Malaysia, Malaysia Scopus ID Google Scholar ORCID ID: https://orcid.org/0000-0002-0552-1636
Aslina Binti Omar	Universiti Teknologi MARA, Malaysia Scopus ID Google Scholar ORCID ID: https://orcid.org/0000-0002-9077-9825
Editors :	
Dina Agustina	Universitas Negeri Padang, Indonesia Scopus ID Google Scholar SINTA ID ORCID ID: https://orcid.org/0009-0007-0904-0024
Nadiyahatul Ghina	Universitas Negeri Padang, Indonesia Scopus ID Google Scholar SINTA ID ORCID ID:



LIST OF ARTICLES

- | | |
|--|-------|
| Survival Analysis of Patients with Chronic Kidney Disease at Dr Achmad Darwis Regional General Hospital Using the Kaplan-Meier Method | 1-8 |
| Mei Syarah Anis, Devni Prima Sari | |
| Digital Signature Using the SHA-512 Hash Function and the ElGamal Cryptographic Algorithm for Document Security | 9-17 |
| Adib Yusron Bokari, Meira Parma Dewi | |
| Implementation of Elgamal Elliptic Curve-Based Cryptographic Systems (ECEG) in Text Encryption | 18-25 |
| Kenanga Dylla Oktariza, Meira Parma Dewi | |
| Statistical Modelling of Rainfall Data Using Robust Kriging with Gaussian Semivariogram in Bengkulu Province | 26-35 |
| Cinta Rizki Oktarina, Reza Pahlepi | |
| Application of Algorithm Learning Vector Quantization For Air Quality Classification | 36-41 |
| Roufsaldiaz Nawfal, Dina Fitria, Chairina Wirdiastuti | |