



ISSN 2598-3245 (Print)

ISSN 2598-3288 (Online)

Vol. 7 Issue 2 2023

Jurnal

ELTIKOM

Jurnal Teknik Elektro, Teknologi Informasi dan Komputer

TIME SEGMENT ANALYSIS OF HEART RATE VARIABILITY TO EVALUATE DAILY STRESS USING WEARABLE DEVICE TECHNOLOGY

Alvin Sahroni, Pramudya Rakhmadyansyah Sofyan

RANDOM STATE INITIALIZED LOGISTIC REGRESSION FOR IMPROVED HEART ATTACK PREDICTION

Kevyn Alifian Hernanda Wibowo, Salma Aprilia Huda Putri, Jumanto Jumanto, Much Aziz Muslim

MODEL ANALYSIS OF GATED RECURRENT UNIT FOR MULTIVARIATE RICE PRICE FORECASTING

Muhammad Ikhsan Ananda

WIND POWER FREQUENCY CONTROL IN DOUBLY FED INDUCTION GENERATOR USING CFMPC-FOPID CONTROLLER SCHEME

Bershiya M S, Jasphin Melba, Shibu J V Bright, Evangelin Jeba

UNPACKING PUBLIC PERCEPTIONS OF QRIS WITH TWITTER DATA: A VADER AND LDA METHODOLOGY

Dzakiya Ishmatul Ulya, Anang Kunaefi, Dwi Rolliawati, Bayu Adhi Nugroho

THE HYBRID CRYPTOGRAPHIC ALGORITHMS FOR SECURE RFID DATA PROTECTION IN THE INTERNET OF THINGS

Alief Vickry Thaha Maulidzart, Robby Harahap, Antonius I. Sukowati, Dyah Nur'ainingsih, Widyastuti

AUTOMATIC TUBE COUNTER MONITORING SYSTEM USING INFRARED SENSOR BASED ON NODEMCU ESP8266

Nawawi Nawawi, Rusilawati Rusilawati, Ayu Novia Lisdawati, Istiyo Winarno

OPTIMIZATION OF 4G LTE NETWORK BAD SPOT AREA USING AUTOMATIC CELL PLANNING METHOD

Afrizal Yuhaneef, Siska Aulia, Jasmanto Jasmanto

FAST PREDICTION OF MEDIUM VOLTAGE NETWORK DISTURBANCES USING KNOWLEDGE GROWING SYSTEM (KGS) METHOD

Ika N. Syamsiana, Puspa A. Yohana Yohana, Indrazno Sirajuddin, Arwin D. Wahyudi Sumari, Andhika Sulistio

RANGE AND VELOCITY RESOLUTION OF LINEAR- FREQUENCY-MODULATED SIGNALS ON SUBARRAY-MIMO RADAR

Sabaria Sabaria, Syahfrizal Tahcfullloh

Publisher:

Pusat Penelitian dan Pengabdian Kepada Masyarakat Politeknik Negeri Banjarmasin

Jl. Brigjen H. Hasan Basri, Kayu Tangi, 70123

e-mail : eltikom@poliban.ac.id

Website : <http://eltikom.poliban.ac.id>

The ELTIKOM journal is a journal in Electrical Engineering, Information, and Communication Technology. This journal is available to researchers who wish to increase their knowledge in a particular field and want to disseminate knowledge as a result of research.

- Editor in Chief** : Yusie Rizal (Politeknik Negeri Banjarmasin, Indonesia)
- Managing Editor** : Reza Fauzan (Politeknik Negeri Banjarmasin, Indonesia)
- Associate Editor** : Aaron Raymond See (Southern Taiwan University, Taiwan)
Addy Wahyudie (United Arab Emirates University, United Arab Emirates)
Agus Eko Minarno (Universitas Muhammadiyah Malang, Indonesia)
Andrés García (Universidad Tecnológica Nacional, Argentina)
Bayu Priambadha (University of Miyazaki, Japan)
Rahimi Fitri (Politeknik Negeri Banjarmasin, Indonesia)
Zaiyan Ahyadi (Politeknik Negeri Banjarmasin, Indonesia)
- Peer Reviewer** : Barack Wamkaya Wanjawa (University of Nairobi, Kenya)
Francesca Santucci (Università Campus Bio-Medico di Roma, Italy)
Denar Regata Akbi (Universitas Muhammadiyah Malang, Indonesia)
Yuita Arum Sari (Universitas Brawijaya, Indonesia)
Muhammad Alkaff (Universitas Lambung Mangkurat, Indonesia)
Nanang Fakhur Rozi (Institut Teknologi Adhi Tama Surabaya, Indonesia)
Joni Welman Simatupang (President University, Indonesia)
Rusilawati (Akademi Teknik Pembangunan Nasional, Indonesia)
Rakha Asyrofi (National Central University, Taiwan)
Fitri Bimantoro (Universitas Negeri Mataram, Indonesia)
Kun N.P. Pamungkas (Politeknik Negeri Banjarmasin, Indonesia)
Adi Muhajirin (Universitas Bhayangkara Jakarta Raya, Indonesia)
Hero Wintolo (Institut Teknologi Dirgantara Adisutjipto, Indonesia)
Anggara T. Nugraha (Politeknik Perkapalan Negeri Surabaya, Indonesia)
Muldi Yuhendri (Universitas Negeri Padang, Indonesia)
Yuslena Sari (Universitas Lambung Mangkurat, Indonesia)

Publisher

Pusat Penelitian dan Pengabdian Kepada Masyarakat (P3M)

Politeknik Negeri Banjarmasin

Address

Jl. Brigjen H. Hasan Basry Komp. Kampus Unlam Kayu Tangi

Banjarmasin, Kalimantan Selatan, Indonesia

Telepon/Fax : 0511-3305052

Web : <http://eltikom.poliban.ac.id>

E-mail : eltikom@poliban.ac.id

LIST OF CONTENTS

Time Segment Analysis of Heart Rate Variability to Evaluate Daily Stress using Wearable Device Technology	104-115
Alvin Sahroni, Pramudya Rakhmadyansyah Sofyan	
Random State Initialized Logistic Regression for Improved Heart Attack Prediction	116-124
Kevyn Alifian Hernanda Wibowo, Salma Aprilia Huda Putri, Jumanto Jumanto, Much Aziz Muslim	
Model Analysis of Gated Recurrent Unit for Multivariate Rice Price Forecasting	125-132
Muhammad Ikhsan Ananda	
Wind Power Frequency Control in Doubly FED Induction Generator Using CFMPC-FOPID Controller Scheme	133-144
Bershiya M S, Jasphin Melba, Shibu J V Bright, Evangelin Jeba	
Unpacking Public Perceptions of Qris with Twitter Data: A Vader And LDA Methodology	145-159
Dzakiya Ishmatul Ulya, Anang Kunaefi, Dwi Rolliawati, Bayu Adhi Nugroho	
The Hybrid Cryptographic Algorithms for Secure RFID Data Protection in The Internet of Things	160-169
Alief Vickry Thaha Maulidzart, Robby Harahap, Antonius Irianto Sukowati, Dyah Nur'ainingsih, Widyastuti Widyastuti	
Automatic Tube Counter Monitoring System using Infrared Sensor based on NODEMCU ESP8266	170-180
Nawawi Nawawi, Rusilawati Rusilawati, Ayu Novia Lisdawati, Istiyo Winarno	
Optimization of 4G LTE Network Bad Spot Area using Automatic Cell Planning Method	181-191
Afrizal Yuhaneef, Siska Aulia, Jasmanto Jasmanto	
Fast Prediction of Medium Voltage Network Disturbances using Knowledge Growing System (KGS) Method	192-199
Ika Noer Syamsiana, Puspa Ayu Yohana Yohana, Indrazno Sirajuddin, Arwin Datumaya Wahyudi Sumari, Andhika Sulistio	
Range and Velocity Resolution of Linear- Frequency-Modulated Signals on Subarray-Mimo Radar	200-209
Sabaria Sabaria, Syahfrizal Tahcfullloh	

Jurnal

ELTIKOM

Jurnal Teknik Elektro, Teknologi Informasi dan Komputer

EDITOR'S FOREWORD

Assalamu'alaikum Wr. Wb.

Alhamdulillah, thanks to the grace of Allah Subhanahu Wa Ta'ala, the ELTIKOM Journal Volume 7 Number 2 of 2023 has been published. We express our deepest gratitude and appreciation to peer reviewers, editors, authors, and all parties who cannot be mentioned individually for their assistance and cooperation so that the ELTIKOM Journal can be published. Hopefully, the ELTIKOM Journal can add knowledge and breadth of insight for all parties. Finally, to improve the quality of content and appearance, we expect input from the editor's email address for improvement in the next edition.

Wassalamu'alaikum Wr. Wb.

Editor in Chief