

ISSN: 2477 - 7986
eISSN: 2477 - 7994



JMECS

**Journal of Measurements
Electronics Communications
and System**

Special Issue:
Signal Processing
Automation and Robotics
Instrument and Measurement

Volume 10 No.2 2023

This work is licensed under a Creative Commons Attribution NonCommercial 4.0 International License CC BY-NC 4.0

JMECS editorial office :

Telkom University, Room P216, Gd. Deli (P Building)

Address : Jl. Telekomunikasi, Terusan Buahbatu. Bandung 40257 Indonesia

Phone: +6281285658967

Email: redaksijmecs@telkomuniversity.ac.id

TABLE OF CONTENTS

AGE IDENTIFICATION SYSTEM WITH PANORAMIC IMAGE PROCESSING DIGITAL MOLAR DENTAL RADIOGRAPH WITH ADAPTIVE REGION GROWING APPROACH METHOD Hilman Fauzi, Fajri Tsani, Fahmi Oscandar, Faaq Ammaria Adzra	44 - 50
A CONTROLLED GAS-BASED DEHYDRATOR FOR DRYING BANANAS IN THE HOME INDUSTRY Iful Amri, Sigit Kurniawan, Viola Gunova, Yumi Arianza, Della Exsal Parida	51 - 57
A METHOD OF ANTI-WINDUP PID CONTROLLER FOR A BLDC-DRIVE SYSTEM Aditya Adni Argaloka, Harwin Aptadarya, Fiendo Mahendra Arentaka, Fiky Yosef Suratman, Arief Suryadi Satyawan	58 - 66
MEASUREMENT OF MOTOR VEHICLE EMISSIONS BASED ON LOW-COST SENSORS Michelle Kurniawan, S. A. Ardiles, A. S. Adiwidya, A. Z. Ummi, M. F. A. Halinda, I. C. A. G. Okthaviany, D. A. M. Gajah, P. N. A. Hidayat, I. J. Lalintia, P. A. Kampong, R. A. Salam, I. Chandra	67 - 76
PROTOTYPE DESIGN OF A FISHING BOAT SAFETY MONITORING SYSTEM USING LORA AND MICROSENSOR DEVICES Eka Sugiarto, Asep Suhendi, M. Yusup Abdussalam, Zahira Aulia Husniah, Annisa Puji Lestari	77 - 85

EDITOR IN CHIEF

Dr. Ismudiati Puri Handayani, Telkom University, Indonesia

EDITORS

Dr. Nurain Izzati Shuhaimi, Universiti Teknologi MARA, Malaysia

Dr. Riries Rulaningtyas, Universitas Airlangga, Indonesia

Dr. Agus Subekti, Lembaga Ilmu Pengetahuan Indonesia , Indonesia

Cahyantarie Ekaputri, Telkom University, Indonesia

Sofia Saidah, Telkom University, Indonesia

Dr. Ida Wahidah, Telkom University, Indonesia

Angga Rusdinar, Ph.D., Telkom University, Indonesia

Erfansyah Ali, Telkom University, Indonesia

Vinsensius Sigit Widhi Prabowo, Telkom University, Indonesia

Harfan Hian Ryanu, Telkom University, Indonesia

SECRETARIAT

PPM Publication Directorate Staff

REVIEWERS

Prof. Mohamad Kamal A Rahim, Universiti Teknologi Malaysia, Malaysia

Augie Widyotriatma, Ph.D., Institut Teknologi Bandung, Indonesia

Ade Haryanto, Ph.D., Institut Teknologi Bandung, Indonesia

Dr. Ing. Chairunnisa, Institut Teknologi Bandung, Indonesia

Dr. Irma Zakia, Institut Teknologi Bandung, Indonesia

Dr. Riries Rulaningtyas, Universitas Airlangga, Indonesia

Dr. Agus Subekti, Lembaga Ilmu Pengetahuan Indonesia, Indonesia

Dr. IGB Baskara Nugraha, Institut Teknologi Bandung, Indonesia

Denny Darlis, Telkom University, Indonesia

Dr. Edy Wibowo, Telkom University, Indonesia

Dr. A. Adya Pramudita, Telkom University, Indonesia

Dr. Gelar Budiman, Telkom University, Indonesia

Reza Fauzi Iskandar, Telkom University, Indonesia

Hertiana Bethaningtyas, Telkom University, Indonesia

Dr. Achmad Rizal, Telkom University, Indonesia

Dr. Khusnul Ain, Universitas Airlangga, Indonesia

Dr. Koredianto Usman, Telkom University, Indonesia

Dr. Nachwan Mufti Adriansyah, Telkom University, Indonesia

Dr. Dudi Darmawan, Telkom University, Indonesia

Dr. Dyah Ekashanti Octorina Dewi, Universiti Teknologi Malaysia, Malaysia

Dr. -Eng. Indra Chandra, Telkom University, Indonesia

M. Reza Hidayat, Universitas Jenderal Achmad Yani, Indonesia

Abrar, Ph.D., Telkom University, Indonesia

Dr. Ellianawati, Universitas Negeri Semarang, Indonesia

Maya Rahayu, Politeknik Negeri Bandung, Indonesia

Dr. Nyoman Bogi Aditya Karna, Telkom University, Indonesia

Dr. Reza Rendian Septiawan, Telkom University, Indonesia

Tri Wahyu Oktaviana Putri, Institut Teknologi PLN, Indonesia

Muhammad Zakiyullah Romdlony, Ph.D., Telkom University, Indonesia

Yunendah Nur Fuadah, Telkom University, Indonesia

Eka Kusumawahdhani, Universitas Tanjungpura, Indonesia

Leonardus Sandy Ade Putra, Universitas Tanjungpura, Indonesia

Dhoni Putra Setiawan, Ph.D., Telkom University, Indonesia

Dr. Budi Prasetya, Telkom University, Indonesia

Akhmad Hambali, Telkom University, Indonesia

Maya Rahayu, Politeknik Bandung, Indonesia

Dharu Arseno, Telkom University, Indonesia

Edwar, Telkom University, Indonesia

Dr. Syamsul Rizal, Telkom University, Indonesia

Muhsin, Institut Teknologi Telkom Surabaya, Indonesia

Bambang Sumajudin, Telkom University, Indonesia

A. Ali Muayyadi, Ph. D., Telkom University, Indonesia

YogieK Kurniawan, Universitas Jenderal Soedirman, Indonesia

Inung Wijayanto, Telkom University, Indonesia

Dr. Eng. Wendi Harjupa, Research Center for Climate and Atmosphere (PRIMA),
National Research and Innovation Agency (BRIN)

Dr. Eng. Indra W. Fathona, Telkom University

Arnawan Hasibuan, S. T., M.T., PhD, Universitas Malikussaleh, Indonesia

Ir. Joni Welman Simatupang, S.T., M.Sc. Eng, PhD, President University, Indonesia

Suryadi, M.T., National Research and Innovation Agency (BRIN), Indonesia