

P-ISSN : 2528 - 0260

E-ISSN : 2579 - 5392

JEECS

Journal of Electrical Engineering and Computer Sciences

Volume 8 | Number 1 | June 2023



<https://ejournal.ubhara.ac.id/index.php/jeeecs>

Published by
Faculty of Engineering
Universitas Bhayangkara Surabaya

JEECS

Journal of Electrical Engineering and Computer Sciences

Volume 8 | Number 1 | June 2023

Editorial Team

Advisor

Dean of Engineering Faculty Universitas Bhayangkara Surabaya

Editor-in-Chief

R. Dimas Adityo, S.T., M.T.

Universitas Bhayangkara Surabaya, Indonesia

Editorial Boards

Prof. Dr. Taufik

California Polytechnic State University, United States

Jonathan Salar Cabrera

Davao Oriental State College of Science and Technology, Filipina

Prof. Dr.Eng. Chastine Fatichah, S.Kom., M.Kom.

Institut Teknologi Sepuluh Nopember, Indonesia

Dr. Bambang Purwahyudi, S.T., M.T.

Universitas Bhayangkara Surabaya, Indonesia

Dr. Surya Sumpeno, S.T., M.T.

Institut Teknologi Sepuluh Nopember, Indonesia

Dr. Ir. Era Purwanto, M.Eng.

Politeknik Elektronika Negeri Surabaya, Indonesia

Harunur Rosyid, S.T., M.Kom.

Universitas Muhammadiyah Gresik, Indonesia

Managing Editors

Dr. Eko Prasetyo, S.Kom., M.Kom.
Universitas Bhayangkara Surabaya, Indonesia

Dr. Hasti Afianti, S.T., M.T.
Universitas Bhayangkara Surabaya, Indonesia

Dr. Anny Yuniarti, S.Kom., M.Kom.
Institut Teknologi Sepuluh Nopember, Indonesia

Richa Watiasih, S.T., M.T.
Universitas Bhayangkara Surabaya, Indonesia

Fardanto Setyatama, S.T., M.MT.
Universitas Bhayangkara Surabaya, Indonesia

Budi M. Mulyo, S.Kom., M.T.
Universitas Bhayangkara Surabaya, Indonesia

Dewi Cahya Febrina, S.T., M.T.
Universitas Bhayangkara Surabaya, Indonesia

Secretariat

Faculty of Engineering
Universitas Bhayangkara Surabaya
Jl. Ahmad Yani 114, Surabaya, Indonesia, 60231
Telp. (031) 8285602

Publisher

Faculty of Engineering
Universitas Bhayangkara Surabaya
<https://ejournal.ubhara.ac.id/index.php/jeeecs>

JEECS

Journal of Electrical Engineering and Computer Sciences

Volume 8 | Number 1 | June 2023

Journal of Electrical Engineering and Computer Sciences (JEECS) is a scientific journal that presents and updated scientific articles in the field of Electrical Engineering and Computer Sciences research among academics and practitioners alike, including power system, electrical engineering, industry automation, mechatronics, computer sciences, informatics, and information system.

This journal is dedicated for the author or researcher who has focused in the field of technology and intending on publication and sharing knowledge the novel technology include, but are not limited to, the following topics: Data Mining, Informatics algorithm methodology, Mobile Computing, Automation, Power, Green Technology, Advanced Computer Networks, Image Processing, Computer Vision, Robotics Technology, Decision Support System, Big Data, Data Sciences, Internet of Things, Network Security, Virtual Reality, etc.

Publishing articles on this journal can be submitted online to our OJS system or you can read complete information / instructions for author. The articles which would like to publish is selected go through a selection process by partner reviewer and / or editors.

This Journal is published periodically twice a year on June and December. For further information, send your email to jeecs@ubhara.ac.id

Journal of Electrical Engineering and Computer indexed in Crossref, Google Scholar, Garuda, Dimensions, Semantic Scholar, Neliti, and Journal Stories.

[This Page Intentionally Left Blank]

Table of Contents

Prototype of Automatic Transfer Switch (ATS) for Solar Power Plant Based on Arduino Uno <i>Muhammad Alfian Haris Prastyana, Bambang Purwahyudi</i>	1 - 8
Decision Support System for Purchasing Speaker Monitor Home Recording Using Fuzzy Multiple Attribute Decision Making <i>Wahyu Widodo, Adhitya Pratama</i>	9 - 18
Implementation of Least Square Algorithm to Predict Monthly Revenue (Case Study: Djuju's Grocery Store) <i>Aditya Ardhana, Chrystia Aji Putra, Andreas Nugroho Sihananto</i>	19 - 26
Implementation of K-Means Clustering Method to Lecturers Based on Publications of National Journals and Accredited Sinta <i>Dahnial Dahnial</i>	27 - 40
Application of Certainty Factor Method to Web-based Expert System for Chicken Disease Diagnosis <i>Adam Ridwan, M Mahaputra Hidayat, Rifki Fahrial Zainal, Rahmawati Febrifyaning Tias, Rangsang Purnama, Akhmad Najmul Irfani, Noer Firda Yuana Ridhawaty</i>	41 - 48
Implementation of Virtual Reality for Photography Exhibitions <i>Rizky Syahputra Setyawan, M Mahaputra Hidayat, Lutfia Febrianti, Moch Alif Firmansyah</i>	49 - 54
Development of Employee Online Attendance System using Webcams and Web-Based Location (Case Study of CV. OTW Computer Gusaha) <i>Bagus Ramdana Kurnia Aji, M Mahaputra Hidayat, Alifia Julianti, Ahmad Arif Muzzani</i>	55 - 62
Monitoring and Control System of Parallel Loads Electricity Consumption Based on IOT <i>M. Teguh Adkhar, Hasti Afianti</i>	63 - 70
Electrical Energy Audit in Pakuwon City Mall 2 Building for Efficiency <i>Ade Kristanto, Saidah</i>	71 - 82

Implementation of Virtual Reality in Simple Math Quizzes as Children's Learning Platform

Muchammad Danief Zulfa Ridloka, Vivy Cahyani, Hatta Zuama Bintang Aulia, M. Mahaputra Hidayat