

E-ISSN 2622-0393 P-ISSN 2549-8304 VOLUME 5 NUMBER 2 - SEPTEMBER 2021

# JOURNAL OF ELECTRICAL, ELECTRONICS AND INFORMATICS



PUBLISHED BY INSTITUTE FOR RESEARCH AND COMMUNITY SERVICES, UDAYANA UNIVERSITY, BALI, INDONESIA

#### Journal of Electrical, Electronics and Informatics Vol. 5 No. 2, September 2021

Helpdesk Ticketing Information System Based on Android at Communication and Information Department of Badung Regency	41-47
Dewi Ayu Sulistyo Damayanti, I Made Arsa Suyadnya, and Duman Care Khrisne	
Design Fiber to The Home Gigabit Passive Optical Network Udayana University, Sudirman Campus	48-51
Sudiarta Pande Ketut, Alit Swamardika I B, and Gunantara Nyoman	
Residual Neural Network Model for Detecting Waste Disposing Action in Images	52-56
I Made Arsa Suyadnya and Duman Care Khrisne	
Room and Laboratory Equipment Lending Based On Smartphone Application Using QR Code Technology	57-65
Yandi Kurniawan	
Implementation and Evaluation of Accounting Information Systems in Manufacturing Company Using System Usability Scale	66-71

I. M. S. Sandhiyasa, C. P. Yanti, and Theresia Hendrawati

### **EDITORIAL BOARDS**

#### **Editor-in-Chief:**

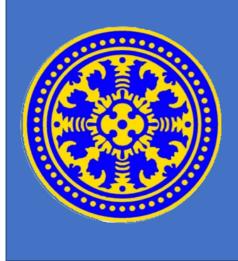
Ni Made Ary Esta Dewi Wirastuti, [GS] [Scopus] [Sinta] (Udayana University, Indonesia)

#### **Managing Editor:**

Duman Care Khrisne [GS] [Scopus] [Sinta] (Udayana University, Indonesia)

#### **Section Editors:**

Associate Prof. Khalid Samarah [GS] [Scopus] (Mutah University, Jordan) I Made Arsa Suyadnya [Scopus] (Udayana University, Indonesia) I Wayan Agus Arimbawa [Scopus] (University of Mataram, NTB) Nyoman Satya Kumara [Scopus] (Udayana University, Indonesia) Satriyo Dharmanto [Scopus] (IEEE Indonesia Section) Wiseto P. Agung [Scopus] (PT. TELKOM, Indonesia) Yoga Divayana [Scopus] (Udayana University, Indonesia) Kwong Chiew-Foong [GS] (University of Nottingham China Campus, China)



## JOURNAL OF ELECTRICAL, ELECTRONICS AND INFORMATICS

Journal of Electrical, Electronics and Informatics is a peer-reviewed journal which devoted to the advancement and dissemination of scientific knowledge concerning electrical, electronics and informatics throughout the world for researchers and professionals. The journal is an official publication of the Institute for Research and Community Services Udayana University. The scope of these areas may encompass: (1) theory, methodology, practice, and applications; (2) analysis, design, development and evaluation; and (3) scientific and technical support to establishment of technical standards in the field of electrical, electronics and informatics. This journal published in English and being distributed worldwide.

#### **Focus and Scope**

**Journal of Electrical, Electronics and Informatics** publishes original papers in the field of electrical, computer and informatics engineering which covers, but not limited to, the following scope:

**Computer Science, Computer Engineering and Informatics:** Computer Architecture, Parallel and Distributed Computer, Pervasive Computing, Computer Network, Embedded System, Human—Computer Interaction, Virtual/Augmented Reality, Computer Security, Software Engineering (Software: Lifecycle, Management, Engineering Process, Engineering Tools and Methods), Programming (Programming Methodology and Paradigm), Data Engineering (Data and Knowledge level Modeling, Information Management (DB) practices, Knowledge Based Management System, Knowledge Discovery in Data), Network Traffic Modeling, Performance Modeling, Dependable Computing, High Performance Computing, Computer Security, Human-Machine Interface, Stochastic Systems, Information Theory, Intelligent Systems, IT Governance, Networking Technology, Optical Communication Technology, Next Generation Media, Robotic Instrumentation, Information Search Engine, Multimedia Security, Computer Vision, Information Retrieval, Intelligent System, Distributed Computing System, Mobile Processing, Next Network Generation, Computer Network Security, Natural Language Processing, Business Process, Cognitive Systems.

**Electronics:** Electronic Materials, Microelectronic System, Design and Implementation of Application Specific Integrated Circuits (ASIC), VLSI Design, System-on-a-Chip (SoC) and Electronic Instrumentation Using CAD Tools, digital signal & data Processing, , Biomedical Transducers and instrumentation, Medical Imaging Equipment and Techniques, Biomedical Imaging and Image Processing, Biomechanics and Rehabilitation Engineering, Biomaterials and Drug Delivery Systems;

**Electrical and Power Engineering:** Electrical Engineering Materials, Electric Power Generation, Transmission and Distribution, Power Electronics, Power Quality, Power Economic, FACTS, Renewable Energy, Electric Traction, Electromagnetic Compatibility, High Voltage Insulation Technologies, High Voltage Apparatuses, Lightning Detection and Protection, Power System Analysis, SCADA, Electrical Measurements;

**Telecommunication and Information Technology:** Modulation and Signal Processing for Telecommunication, Information Theory and Coding, Antenna and Wave Propagation, Wireless and Mobile Communications, Radio Communication, Communication Electronics and Microwave, Radar Imaging, Distributed Platform, Communication Network and Systems, Telematics Services and Security Network;

**Instrumentation and Control Engineering:** Optimal, Robust and Adaptive Controls, Non Linear and Stochastic Controls, Modeling and Identification, Robotics, Image Based Control, Hybrid and Switching Control, Process Optimization and Scheduling, Control and Intelligent Systems, Artificial Intelligent and Expert System, Fuzzy Logic and Neural Network, Complex Adaptive Systems;



