



Editor in Chief

Fergyanto E. Gunawan - BINUS University, Indonesia

Executive Editors

Haryo Sutanto - BINUS University, Indonesia

Associate Editors

Benny Tjahjono - Coventry University, United Kingdom
Mahardhika Pratama - University of South Australia, Australia
Horacio Pérez Sánchez - Universidad Católica de Murcia (UCAM), Spain
Ngoc Thanh Nguyen - Wrocław University of Technology, Poland
Yogesana Kanagasingam - The University of Notre Dame Australia, Australia

Guest Editors

Bernardi Pranggono - Anglia Ruskin University, United Kingdom
Hiroomi Homma - Toyohashi University of Technology, Japan
Irwanda Laory - University of Warwick, United Kingdom
Matthieu Luras - IMT Mines Arbi-Carmaux, France
Nico Surantha - Tokyo City University, Japan
Thomas Köhler - Institute of Vocational Education and Vocational Didactics, Germany
Worapan Kusakunniran - Mahidol University, Thailand
Yasuhiro Kanto - Ibaraki University, Japan
Emir Mauludi Husni - Bandung Institute of Technology (ITB), Indonesia
Hasballah Zakaria - Bandung Institute of Technology (ITB), Indonesia
Mauridhi Hery Purnomo - Institute Teknologi Sepuluh Nopember, Indonesia
Antoni Wibowo - BINUS University, Indonesia
Benfano Soewito - BINUS University, Indonesia
Sani M. Isa - BINUS University, Indonesia
Satryo Soemantri Brodjonegoro - BINUS University, Indonesia
Spits Warnars Harco Leslie Hendric - BINUS University, Indonesia
Suharjito - BINUS University, Indonesia
Syauqi Abdurrahman Abrori - BINUS University, Indonesia

Editorial Assistant

Dewi Novianti - BINUS University, Indonesia
Eka Yanti Pangputri - BINUS University, Indonesia
Holil - BINUS University, Indonesia

Aims and Scope

CommIT is a semiannual journal, published in May and October. Communication and Information Technology Journal focuses on various issues spanning in Computer Engineering, Computer Science, and Information System. CommIT has been accredited by the Ministry of Research, Technology and Higher Education under the decree number 169/E/KPT/2024 and has been indexed and abstracted by Scopus, ASEAN Citation Index, Directory of Open Access Journals (DOAJ), Science and Technology Index 1 (SINTA 1), Indonesia OneSearch, Academic Research Index (Research BIB), Garda Rujukan Digital (Garuda), Bielefeld Academic Search Engine (BASE), World Catalogue (WorldCat), Google Scholar, and Indonesian Research Repository (Neliti).

Publications

CommIT Journal (ISSN 1979-2484) is published biannual by the Research and Technology Transfer (RTT) Bina Nusantara University at Kampus Anggrek, Jl. Kebon Jeruk Raya No. 27, Kemanggis/Palmerah, Jakarta Barat 11530, telp. (021) 5327630, ext. 1708, E-mail: commit@binus.edu

Home page: <https://journal.binus.ac.id/index.php/commit>



Contents

Bahtiar Imran; Erfan Wahyudi; Selamat Riadi; Zumratul Muahidin; Surni Erniwati; Wenti Ayu Wahyuni A Comparative Hybrid Approach for Python Bug Detection Using Syntactic Features, Random Forest, and Neural Network	141–150
Rannie M. Sumacot; Jessie R. Paragas IoT-Enabled K-Nearest Neighbors (KNN)-Based Soil Nutrient Recommendation System for Rice (<i>Oryza Sativa L.</i>) Cultivation	151–165
Devia Velicia Eliezer; Sfenrianto Understanding POS ABC Adoption in Indonesia: A Quantitative Analysis Using Modified UTAUT	167–181
Marthen Sattu Sambo; Suryasatriya Trihandaru; Didit Budi Nugroho; Hanna Arini Parhusip Comparative Analysis of LSTM and Bi-LSTM for Classifying Indonesian New Translation Bible Texts Using Word2Vec Embedding	183–202
Iwan Donal Paska Manurung; Rahmad Hidayat Hadi Subroto; Indrajid Rastra Dewa Brata; Riri Fitri Sari Performance Evaluation of mmWave and Sub-TeraHertz Communication Propagation Path Loss Model Simulation Using NYUSIM	203–219
Jasbir Singh Saini; Sunny Arora; Sushil Kamboj Deep Learning Techniques to Enhance Energy Efficiency of Home Appliances by Analyzing Air Quality Levels	221–248
Putri Liana; M. Udin Harun Al Rasyid; Setiawardhana Development of IoT-based Drip Irrigation System for Tobacco Crops Using Fuzzy Logic: A Case Study in Indonesian Agriculture	249–265
Handoko; Aaron Berliano Handoko; Darmawan Utomo Age and Gender Recognition for Masked Face Using YOLO-X and CNN in Smart Advertisement Systems	267–280
Lucia D. Krisnawati; Aditya W. Mahastama; Su Cheng Haw Cross-Prompt Based Automatic Short Answer Grading System	281–291
Kasiful Aprianto; Dwiza Riana Brain Tumor Segmentation Meets Efficiency: Res-UNet Improved by Attention Mechanisms and Quantization	293–314
INDEX	315–318