

Website : research.binus.ac.id/iccsai



**KONSORSIUM
BIDANG KOMPUTER
LLDIKTI WILAYAH III**



2021 1st INTERNATIONAL
CONFERENCE
COMPUTER SCIENCE AND
ARTIFICIAL INTELLIGENCE



28 OCTOBER 2021

Program Book

BINUS UNIVERSITY

Jl. K. H. Syahdan No. 9, Kemanggis, Palmerah
Jakarta 11480 Indonesia



Copyright @ 2021 by
The Institute of Electrical and Electronics Engineers, Inc.
All right reserved

Universitas
Esa Unggul

Universitas
Esa Unggul

Universitas
Esa Unggul

**2021 1st International Conference on Computer Science and Artificial Intelligence
(ICCSAI)**

Copyright and Reprint Permission: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for the private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center. For reprint or republication permission, email to IEEE Copyrights Manager at pubs-permissions@ieee.org. All right reserved. Copyright ©2021 by IEEE.

Conference Record Number: 53272

Universitas
Esa Unggul

Universitas
Esa Unggul

Universitas
Esa Unggul

CONFERENCE COMMITTEE

Advisory Committee

- Prof. Dr. Ir. Harjanto Prabowo, MM, Bina Nusantara University, Indonesia
- Prof. Tirta N. Mursitama, S.Sos., M.M., PhD, Bina Nusantara University, Indonesia
- Dr. -Ing. Wahyudi Hasbi, S.Si, M.Kom, IEEE Indonesia Section
- Prof. Teddy Mantoro, Ph.D., SMEEE, Chairman IEEE CIS Indonesia Chapter

General Chair

Prof. Dr. Ir. Widodo Budiharto, S.Si., M. Kom., IPM, Bina Nusantara University, Indonesia

Vice Chair

Dr. Yaya Sudarya Triana, M.Kom., Universitas Mercubuana, Indonesia

Secretary

1. Dr. Maria Susan Anggreainy, S.Kom., M.Kom, Bina Nusantara University, Indonesia
2. Dr. Dina Fitria Murad, S.Kom., M.Kom, Bina Nusantara University, Indonesia

Treasurer

Ajeng Wulandari, S.Kom, M.Kom., Bina Nusantara University, Indonesia

Publication Section

1. Dr. Ir. Alexander Agung S. Gunawan, M.Sc., IPM, Bina Nusantara University, Indonesia
2. Dr. Evaritus Didik Madyatmadja, ST., M.Kom, M.T, Bina Nusantara University, Indonesia
3. Noerlina, S.Kom., M.MSI, Bina Nusantara University, Indonesia

Track Directors and teams

1. Dr. Ir. Edy Irwansyah, IPM, Bina Nusantara University, Indonesia
2. Lina, S.T., M. Kom., Ph.D, Universitas Tarumanagara, Indonesia
3. Dr. Ionia Veritawati, Universitas Pancasila, Indonesia
4. Prof. Dr. Eri Prasetyo Wibowo, Universitas Gunadarma, Indonesia
5. Dr. Dewi A. R, S.Kom., M.Sc, Universitas Gunadarma, Indonesia
6. Habibullah Akbar, S.Si, M.Sc, Ph.D, Universitas Esa Unggul, Indonesia

Event Section

Dr. Puji Rahayu, Universitas Mercubuana, Jakarta

Registration Section

1. Dr. Sunny Arief Sudiro, S.Kom., MM., STMIK Jakarta & STI&K, Indonesia
2. Desti Fitriati, S.Kom., M.Kom., Universitas Pancasila, Indonesia

Graphic Designer

Dr. Bambang, S.Si., M.Kom, Bina Nusantara University, Indonesia

Parallel Room : 10.30 AM-12.00 PM

Room V Session Chair (Dr. Ir. Edy Irwansyah)		
Live Presentation https://bit.ly/3BbUPm2	Meeting ID = 937 2127 6898 Passcode = 2021	
Time	Paper ID	Title and Author
10.30 AM-10.45 AM	5347	Design of Cadets Administration System for Nusantara Cilacap Maritime Academy Based On Website Emny Harna Yossy
10.45 AM-11.00 AM	5365	The Impact of E-Transport Platforms' Gojek and Grab UI/UX Design to User Henry Hamilton Prasetya, Bima Bagaskarta Ridwanto, Muhammad Ashraf Rahman
11.00 AM-11.15 AM	5243	Effectiveness of LMS in Online Learning by Analyzing Its Usability and Features I Putu Gede Prama Duta, Rio Rio, Mochamad Rizky Febriansyah, Maria Susan Anggreainy
11.15 AM-11.30 AM	5381	E-Learning Issues and Challenges: An Exploratory Study Indriani Noor Hapsari
11.30 AM-11.45 AM	5076	Web Based Application for Ordering Food Raw Materials Rita Layona, Budi Yulianto, Yovita Tunardi
11.45 – 12.00 AM	5544	Analyze User Interface of Learning Management System (LMS) Arief Darvin, Jeffry Kosasih, Stefanus Stefanus

5381: E-Learning Service Issues and Challenges: An Exploratory Study

Indriani Noor Hapsari

Information System Program Universitas Esa
Unggul Jakarta, Indonesia
indriani@esaunggul.ac.id

Imam Sutanto

Informatic Program Universitas Esa Unggul
Jakarta, Indonesia
imam.sutanto@esaunggul.ac.id

Armando Rilentuah Parhusip

Information System Program Universitas Esa
Unggul Jakarta, Indonesia
armando@esaunggul.ac.id

Gerry Firmansyah

Magister of Computer Science Universitas Esa
Unggul Jakarta, Indonesia gerry@esaunggul.ac.id

Sawali Wahyu

Informatic Program Universitas Esa Unggul
Jakarta, Indonesia sawaliwahyu@esaunggul.ac.id

Ainur Rosyid

Elementary Education Program Universitas Esa
Unggul Jakarta, Indonesia
ainur.rosyid@esaunggul.ac.id

Abstract: The use of e-learning in higher education has been known since the late 90's albeit its development and adoption remained a slow process in higher education institutions. The adoption of e-learning is gaining traction as the Covid-19 pandemic hit the world in 2019 and become a necessity for all educational institutions. Although today the institutions have opted for e-learning as an alternative way to carry out the learning process, many are still not ready and facing difficulties in implementing, managing, and using it. This research aimed to investigate the issues and challenges of e-learning implementation during the Covid-19 pandemic at Universitas Esa Unggul. This research was conducted using exploratory research method by conducting literature study, observation, interview, and survey to examine the lecturer's and student's experiences and perspectives of the e-learning system. The questionnaire was adapted from an Information Technology Service Management perspective to gain data of e-learning satisfaction, availability of e-learning facilities, e-learning ease of use, availability of guidelines, availability of system supports, and to get feedbacks from the student and the lecturer. Based on the study, we identify the following seven e-learning issues: 1) e-learning infrastructure, 2) e-learning system integration, 3) e-learning policy, 4) e-learning support, 5) individual workload, timeliness, and 7) interactivities. E-learning infrastructure is a dominant challenge for Universitas Esa Unggul that requires special attention to improve on its support and regulation. This finding gives implications that improving e-learning service is essential to provide a better learning experience. The e-learning service includes the infrastructure, the system integration, the policy and regulation, IT support, the lecturer, and the interactivity. This research could contribute to the design of an effective model of e-learning service by giving more structured guidance on how to do readiness self-assessment and factors to be focused on.

Keywords: e-learning, issues, challenges, IT service, higher education

5383: Smart Electricity Meter as An Advisor for Office Power Consumption

Muhamad Firman M.

Computer Science Department, School of
Computer Science, Bina Nusantara University
Jakarta, Indonesia
muhamad.maulana003@binus.ac.id

Anthony Steven T.

Computer Science Department, School of
Computer Science,
Bina Nusantara University
Jakarta, Indonesia
anthony.trimurti001@binus.ac.id

Muhammad Nooryoku R.

Computer Science Department, School of
Computer Science, Bina Nusantara University
Jakarta, Indonesia
muhammad.rafshanjany@binus.ac.id

Jeffrey Clay S.

Computer Science Department, School of
Computer Science,
Bina Nusantara University
Jakarta, Indonesia jeffrey.setiawan@binus.ac.id

Ferdinand Nathaniel E.

Computer Science Department, School of
Computer Science, Bina Nusantara University
Jakarta, Indonesia ferdinand.erfrans@binus.ac.id

Boby Siswanto

Computer Science Department, School of
Computer Science,
Bina Nusantara University
Jakarta, Indonesia boby.siswanto@binus.ac.id

Abstract: Technological advances are growing fast, with the presence of new technology that helps everyday work. Big companies often have a lot of fluctuation in power usage, where there is no monitoring being done, there is no way of knowing the cause. There is a need for a system that can do the monitoring of power consumption. Internet of Things is a product of technological growth that is focused on helping humans manage their everyday activity, especially in controlling electronics automatically. This research aims to create a system able to monitor power consumption in offices that could be accessed from anywhere. Found that this system can predict electrical consumption every month.

Keywords: Electrical monitoring, IoT, power consumptions, monthly billing

The 1st International Conference on Computer Science and Artificial Intelligence (ICCSAI 2021) and Seminar Nasional Ilmu Komputer dan Sistem Informasi 2021 are a scientific forum for students, lecturer, researchers and scientist to disseminate their knowledge and research on Computer Science, Information Systems, Computer Engineering and Information Technology. The conference warmly welcomes prospected authors to submit their research and idea to ICCSAI 2021, and share the valuable experiences with the scientist and scholars around the world.

SCOPE ▼

- Intelligent System and Machine Vision
 - Robotics & Control Systems
 - Internet of Thing and Robotics
 - Signal Processing & Analysis
- Big Data and Information Technology
- Computational Linguistic and Audio Processing
- Computing & Processing (Hardware/Software)
- Foundations of Computing and Theoretical Computer Science
 - Software Engineering
- Information Security and Networks
 - Information Systems

Supported By



To be submitted to IEEEXplore
for possible indexing by Scopus
IEEE Conference Record Number
53272

