

JURNAL

TECHNO NUSA MANDIRI

Journal of Computing and Information Technology

As an Accredited Journal Rank 4 based on **Surat Keputusan Dirjen Risbang SK Nomor 85/M/KPT/2020**

Vol. 21. No. 1 March 2024

ISSN: 1978-2136 (Printed)

ISSN: 2527-676X (Online)



Publisher:

Lembaga Penelitian dan Pengabdian Masyarakat Universitas Nusa Mandiri
Jl. Jatiwaringin Raya No. 02 RT 08 RW 013 Kelurahan Cipinang Melayu
Kecamatan Makassar Jakarta Timur 13620 Phone: 021 28534471
<http://ejournal.nusamandiri.ac.id/index.php/techno/index>

EDITORIAL BOARD

- Advisors : Chairman of Universitas Nusa Mandiri
- Responsible Person : Chairman of LPPM Universitas Nusa Mandiri
- Editor In Chief : Prof. Dr. Eng. Rendy Thamrin
Universitas Andalas
- Board of Editors : Omar Pahlevi, M. Kom
Universitas Bina Sarana Informatika
- Dr. Miftahus Surur, M.Pd
STKIP PGRI Situbondo
- Sanjaya Pinem, S.Kom., M.Sc
Politeknik Negeri Media Kreatif
- Agung Wibowo, M.Kom.
Universitas Bina Sarana Informatika
- Esron Rikardo Nainggolan, M.Kom.
Universitas Nusa Mandiri
- Evita Fitri, M.Kom
Universitas Nusa Mandiri
- Bangkit Ary Pratama, SKM.,M.Kes.
Politeknik Kesehatan Bhakti Mulia
- Sri Hartanto, S.T, M.T
Universitas Krisnadwipayana
- Riyan Latifahul Hasanah, M.Kom
Universitas Nusa Mandiri
- Siti Nurhasanah Nugraha, M.Kom
Universitas Nusa Mandiri
- Reviewers : Dr. Tati Erlina
Universitas Andalas
- Dr. Taufik Sutanto
Universitas Islam Negeri Syarif Hidayatullah Jakarta
- Dr. Rifki Sadikin
Pusat Penelitian Informatika LIPI
- Dr. Supratman Zakir
Universitas Islam Negeri Sjech M. Djamil Djambek Bukittinggi

Dr. Muhardi
STMIK Hang Tuah Pekanbaru

Dr. Elfizar
Universitas Riau

Dr. Sfenrianto, M.Kom
Universitas Bina Nusantara

Dr. Windu Gata, M.Kom
Universitas Nusa Mandiri

Dr. Soetam Rizky Wicaksono, S.Kom, MM
Profile: ID Scopus: - | Universitas Bina Sarana Informatika

Ir. Andi Saryoko, M.Kom, IPM, ASEAN. Eng
Universitas Nusa Mandiri

Friska Handayanna, M.Kom
Universitas Nusa Mandiri

Mochamad Kamil Budiarto, M.Pd
Institut Pertanian Stiper Yogyakarta

Muhammad Sholeh, ST,MT
Institut Sains & Teknologi AKPRIND Yogyakarta

Fintri Indriyani, M.Kom
Universitas Bina Sarana Informatika

Ai Illah Warnilah, S.T, M.Kom
Universitas Bina Sarana Informatika

Riki Ruli Affandi Siregar, M. Kom
Institut Teknologi Perusahaan Listrik Negara

Bambang Eka Purnama, M.Kom
Universitas Bina Sarana Informatika

Santoso Setiawan, M.Kom
Universitas Nusa Mandiri

Nurmalasari, M.Kom
Universitas Nusa Mandiri

Mulia Sulistiyono, M.Kom
Universitas Amikom Yogyakarta

Ade Priyatna S.Kom MM
Universitas Nusa Mandiri

Priska Choirina, M.Tr.T
Universitas Islam Raden Rahmat

Darsono Nababan S.Kom., M.Kom
Universitas Timor

Imam Yuniarto, S.Kom., M.M., M.Kom.
Institut Bisnis Muhammadiyah Bekasi

Evi Dewi Sri Mulyani, S.Kom., M.Kom
Universitas Perjuangan Tasikmalaya

Anita Sindar, ST., M.TI
STMIK Pelita Nusantara

Editorial Address : Kampus Universitas Nusa Mandiri Tower Jatiwaringin
Jl. Jatiwaringin Raya No. 02 RT 08 RW 013 Kelurahan Cipinang Melayu
Kecamatan Makassar Jakarta Timur 13620

Website : <http://ejournal.nusamandiri.ac.id/index.php/techno>

Editorial Email : jurnal.techno@nusamandiri.ac.id

PREFACE

Editor of TECHNO(Journal of Computing and Information Technology), said praise and gratitude to the presence of Allah S.W.T, creator of the universe who mastered knowledge as wide as heaven and earth, for the abundance of grace and gifts that have been given to TECHNO editors to publish TECHNO Vol. 21, No. 2 March 2024, which is used by lecturers, researching, and professionals as a medium or media to publish publications on the findings of research conducted in each semester.

TECHNO is published 1 (one) year for 2 (two) times at the end of each semester, TECHNO editors receive scientific articles from the results of research, reports / case studies, information technology studies, and information systems, which are oriented to the latest in science and information technology in order to be a source of scientific information that is able to contribute to the increasingly complex development of information technology.

The editor invited fellow researchers, scientists from various tertiary institutions to make scientific contributions, both in the form of research results and scientific studies in the fields of management, education, and information technology. The editors really expect input from readers, information technology professionals, or those related to publishing, for the sake of increasing the quality of journals as we all hope.

The editor hopes that the scientific articles contained in the TECHNO scientific journal will be useful for academics and professionals working in the world of management, education, and information technology

Chief Editor

TABLE OF CONTENTS

FRONT MATTER	i
EDITORIAL BOARD.....	iii
PREFACE	vi
TABLE OF CONTENTS	viii
1. DIAGNOSIS OF CUCUMBER PLANT DISEASES USING CERTAINTY FACTOR AND FORWARD CHAINING METHODS Bligania Bligania, Yoga Pristyanto, Heri Sismoro, Yuli Astuti, Anggit Ferdita Nugraha.....	1-8
DOI : https://doi.org/10.33480/techno.v21i1.5355	
2. COMPARATIVE ANALYSIS OF AUTOMATION FUNCTIONAL TESTING TOOLS PERFORMANCE FOR PLAYSTORE APPS WITH DIA METHOD Faizal Riza, Berliyanto Berliyanto, Aji Nurrohman, Rachmat Setiabudi	9-14
DOI : https://doi.org/10.33480/techno.v21i1.5363	
3. EMPLOYEE ACCEPTANCE AND SATISFACTION USING E-OFFICE BY HYBRID MODEL BASED ON TAM & ISSM Dita Madonna Simanjuntak, Johan Mohammad Palah, Putri Ambarwati.....	15-21
DOI : https://doi.org/10.33480/techno.v21i1.4686	
4. PREDICTIVE MODELING OF BROILER CHICKEN PRODUCTION USING THE NAIVE BAYES CLASSIFICATION ALGORITHM Novia Hasdyna	22-28
DOI : https://doi.org/10.33480/techno.v21i1.5354	
5. THE DEVELOPMENT OF AUTOMATIC CIGARETTE SMOKE DETECTION SYSTEM USING TA12-100 AND MQ-135 SENSORS Yusan Abid Janitra, Addin Aditya, Hilman Nuril Hadi, Diah Arifah P., Sugeng Widodo.....	29-36
DOI : https://doi.org/10.33480/techno.v21i1.5294	
6. ANALYZING THE COMPARATIVE METHODS OF PREWITT, ROBINSON, KRISCH AND ROBERTS IN DETECTING THE EDGES OF RICE LEAVES Nissa Almira Mayangky, Nita Merlina, Arfhan Prasetyo, Dea Amelia, Marcella Irsictia, Mutmainah Putri	37-43
DOI : https://doi.org/10.33480/techno.v21i1.5509	
7. ANALYSIS OF UI & UX DRIVER MOBILE SYSTEM USING HEURISTIC EVALUATION METHOD Fikry Aldi Afandi, Supriyadi Supriyadi	44-50
DOI : https://doi.org/10.33480/techno.v21i1.4634	
8. ANALYSIS OF THE QUALITY OF THE ZETA SCARVES WEBSITE USING THE WEBQUAL 4.0 METHOD Jumiasih Jumiasih, Maruloh Maruloh	51-58
DOI : https://doi.org/10.33480/techno.v21i1.5517	
9. INVENTORY APPLICATION DESIGN AT INDUSTRIAL WATER DEPO USING EXTREME PROGRAMMING METHOD Marco Antonio Narahaba, Francka Sakti Lee	59-66
DOI : https://doi.org/10.33480/techno.v21i1.4190	
10. DEVELOPMENT OF A SYSTEM TRANSFORMATION OF NEW STUDENT ADMISSION SERVICES AND VALUE MANAGEMENT Widi Astuti, Fajar Sarasati	67-73
DOI : https://doi.org/10.33480/techno.v21i1.4985	