



IJST

International
Journal
Science
Technology



Diterbitkan Oleh :
ASSOSIASI DOSEN MUDA INDONESIA
DI PAYUNGI YAYASAN DOSEN MUDA INDONESIA

IJST	Volume 5 No. 2	ALL PAGES	JULY	2026
------	-------------------	--------------	------	------

International Journal Science and Technology (IJST)

Volume 5 No 2: July 2026

FOCUS AND SCOPE OF THE JOURNAL DEVELOPMENT OF SCIENCE AND TECHNOLOGY

IJST: International Journal Science and Technology (p-ISSN : 2828-7045 (print), e-ISSN : 2828-7045 (online); <https://journal.admi.or.id/index.php/IJST> is a journal that publishes scientific articles in the development of science and technology both from the fields of computers, informatics, and mechanics, focusing on computer science, appropriate technology, and design and renewable technology.

Articles published in the International Journal of Science and Technology include the results of original scientific research (top priority), new scientific review articles (not priority), or comments or criticisms of writings in the IJST journal. The IJST journal accepts manuscripts or articles in the field of IJST/engineering from various academics and researchers, both nationally and internationally.

The articles published in the IJST journal are articles that have been reviewed by peer-reviewers. Starting in 2022, the IJST journal only accepts articles originating from original research results (top priority), and scientific review articles that are new (not priority). The decision to accept or not a scientific article in this journal is the right of the Editorial Board based on the recommendation of reviewer Partners.

JOURNAL INDEX INFORMATION

IJST: International Journal Science and Technology (p-ISSN : 2828-7045 (print), e-ISSN : 2828-7045 (online); <https://journal.admi.or.id/index.php/IJST> is a peer-reviewed journal that has been indexed in several reputable indexers, including: Google Scholar; Digital Reference Guard (GARUDA), Directory of Open Access Journal (DOAJ).



International Journal Science and Technology (IJST)

Volume 5 No 2: July 2026

CHAIRMAN

Dr. Tommy Kuncara, SE., MMSI., MSC., CA., ACPA., CTA., C.FTAX., C.FR., CIAP

JOURNAL MANAGER

Dr. Abdul Muchlis, ST., MT., C.AFE

EDITORIAL TEAM

(Editorial Board):

Oman Somatri S.Kom., M.Kom, Politeknik Negeri Cilacap, oman_mantri@yahoo.com ; [Orcid ID](#) , [ID Scopus](#), [ID Scholar, Indonesia](#)

Ratih HafSarah Maharrani, S.Kom., M.Kom, Politeknik Negeri Cilacap, ratih.hafSarah@pnc.ac.id ; [Orcid ID](#) , [ID Scopus](#) , [ID Scholar](#), Indonesia

Ashari Imamuddin, S.Kom., M.Kom, Sekolah Tinggi Teknologi Muhammadiyah Cileungsi, ashari75@gmail.com ; [Orcid ID](#) , [ID Scopus](#) , [ID Scholar, Indonesia](#)

Dr Muhammad Faisal, Director (HRIMS), Ministry of Human Rights, ; [ID Scholar, Pakistan](#)

Dr. Dheeraj Mandloi, Institute of Engineering and Technology ; [Orcid ID, India](#)

Peer-Reviewers:

Assoc. Prof. Musawer Hakimi Computer science Department, Samangan University, Afghanistan

Mr. Layth Nabeel Al-Rawi, Alpen Adria University Klagenfurt; [Scopus](#) [Orcid ID](#), Austria

Dr. Rakesh Kumar, Texila American University [Orcid ID](#), Guyana

Dr. Mohd Wazih Ahmad, Department of CSE, Adama Science and Technology University Adama [Orcid ID](#) , [ID Scopus](#), Ethiopia

Dr. Sulistiyanto, [SCOPUS](#), [SINTA](#), [Scholar](#), Politeknik Negeri Sriwijaya, Indonesia

Dr. Erfiana Wahyuningsih, [SCOPUS](#), [SINTA](#), [Scholar](#), Dian Nusantara University, Indonesia

Dr. Dharmayanti, [SINTA](#), [Scholar](#), Gunadarma University, Indonesia

Agung Dwi Sapto, [SINTA](#), [Scholar](#), Gunadarma University, Indonesia

Publisher:

ASSOSIASI DOSEN MUDA INDONESIA

DI PAYUNGI YAYASAN DOSEN MUDA INDONESIA

Address: Jln. Bumi Dirgantara Permai Blok CL No 5, Jatisari, Bekasi, Jawa Barat, Indonesia

Tlp. 081240105870, 085777661540, 087787048744

Nomor SK: AHU-006304.AH.01.04.Tahun 2018 Date SK: 03 Mei 2018

email: jurnal@admi.co.id; website : www.admi.co.id

International Journal Science and Technology (IJST)

Volume 5 No 2: July 2026

PREFACE

IJST: International Journal Science and Technology (p-ISSN: 2828-7045 (print), e-ISSN: 2828-7045 (online); Volume 1 No. 1 Year 2022 (March 2022) is the first edition to be published in 2022. Articles published by the IJST Journal have been published in Full text and Open Access in format online at: <https://journal.admi.or.id/index.php/IJST> Starting in 2022, only articles originating from research results can be published in the IJST journal after being reviewed by reviewer partners.

IJST: International Journal Science and Technology published the only paper that strictly followed the IJST guidelines and templates for manuscript preparation. All submitted manuscripts will go through a double-blind peer-review process. The paper is read by editorial members (according to the field of specialization) and will be screened by the Managing Editor to meet the criteria required for IJST publication. Manuscripts will be sent to two reviewers based on their historical experience in reviewing manuscripts or based on their area of specialization. IJST has reviewed the form to keep the same item reviewed by two reviewers. Then the editorial board makes a decision on the reviewer's comments or suggestions.

Reviewers give an assessment of originality, clarity of presentation, and contribution to the field/science. This journal publishes research articles, review articles/literature reviews, case reports and concept or policy articles, in all fields of Computer Science, Informatics Engineering, Multimedia, Art. Articles to be published are original works and have never been published. Articles submitted will be reviewed by a team of reviewers who come from internal and external to the Indonesian Young Lecturer Foundation. IJST is published periodically every 4 months, namely in March, July and November.

The Editorial Board will strive to continuously improve the quality of the journal so that it can become an important reference in the development of engineering sciences. The highest appreciation and gratitude go to reviewer partners along with the members of the Editorial Board and all parties involved in the publication of this journal.

The Editorial Board also expects scientific articles from readers to be published in Volume 2 Number 3 November 2023 after going through a review process by the Editorial Board and/or reviewer Partners. Starting from Volume 1 Number 3 November 2022, the IJST journal appears with a new environmental style and a new article format leading to a better one. Complete writing instructions for 2022 are displayed on this journal's portal.

Regards,

Chief of Board

International Journal Science and Technology (IJST)

Volume 5 No 2: July 2026

TABLE OF CONTENTS

Focus, Scope and Indexation Information of Journals	i
Editor Team	ii
Preface	iii
Table of Contents	iv

TABLE OF CONTENTS

Performance Evaluation of an N₂ Membrane Generator under Different Operating Temperatures

Okttu Kristi Pradito, Sekolah Tinggi Teknologi Ronggolawe, Indonesia

Agus Dwi Korawan, Sekolah Tinggi Teknologi Ronggolawe, Indonesia

Drajat Indah Mawarni, Sekolah Tinggi Teknologi Ronggolawe, Indonesia
143-160

Design of a SCADA-Based Control System for Hybrid Power Generation Integrating a Screw Turbine and Solar Panels

Jonah Alfred Mekel, Politeknik Negeri Manado, Indonesia

Franklin Bawano, Politeknik Negeri Manado, Indonesia

Alfred Noufie Mekel, Politeknik Negeri Manado, Indonesia

Tineke Saroinsong, Politeknik Negeri Manado, Indonesia
161-183

Generative AI Risk Governance in Organizational Information Systems: A Conceptual Model Integrating Security, Ethics, and Digital Trust

Nurdiyanto Yusuf, Universitas Gunadarma, Indonesia
184-202

Integrated Technical, Thermal, and Techno-Economic Assessment of Hot-Oil and Electric Heating Systems for 15–22 MT Asphalt Storage Tanks

Arifuddin Arifuddin, Gunadarma University, Indonesia

Elbi Wiseno, Gunadarma University, Indonesia
203-219

Perception and Behavior of Farmers Towards the Use of Organic Fertilizers in Rice Plants in Kewayuhan Village, Pejagoan District, Kebumen Regency

Ngafiful Furqon, Universitas Ma'arif Nahdlatul ulama, Indonesia

Rennanti Lunnadiyah Aprilia, Universitas Ma'arif Nahdlatul Ulama, Indonesia
220-247

[Heart Disease Prediction Using Logistic Regression and K-Nearest Neighbor: A Comparative Study of Classification Algorithm Performance](#)

Yan Risa Aspi Sururi, Gunadarma University, Indonesia

M. Asadullah Al Ghozi, Universitas Indonesia, Indonesia

248-260

[A Systematic Analysis of AI-Assisted Vibe Coding in Software Development: Opportunities, Challenges, and Risks](#)

Amrin Fakhruddin Jauhari, Universitas Nusa Megarkencana, Indonesia

Fahmi Fathullah, Universitas Nusa Megarkencana, Indonesia

Indra Adi Permana, Universitas Gunadarma, Indonesia

Robby Nugraha, Universitas Gunadarma, Indonesia

261-273

[Optimization of Support Vector Machine for Imbalanced Credit Risk Classification](#)

Andre Pratama Adiwijaya, Gunadarma University, Indonesia

274-295

[Testing Various Liquid Organic Fertilizers and Varieties for Yardlong Bean \(*Vigna unguiculata* L.\) on Limited Land in Pengempon Village, Sruweng, Kebumen](#)

Fauziyatul Fitri, Universitas Ma'arif Nahdlatul Ulama Kebumen, Indonesia

Rennanti Lunnadiyah Aprilia, Universitas Ma'arif Nahdlatul Ulama Kebumen, Indonesia

296-304
