

## Editorial Team

---

**Advisory:**

Genesis Sembiring Depari, Ph.D, Director, Formosa Publisher, Indonesia

**Editor in Chief:**

Professor Jen Peng Huang, Ph.D, Department of Information Management, Southern Taiwan University of Science and Technology, Taiwan

**Managing Editor:**

Nia D Simanjuntak, S.Pd, Formosa Publisher, Indonesia

**Editorial Board:**

Dr. Aaron Raymond See, Southern Taiwan University of Science and Technology, Taiwan

Wisuwat Wannamakok Ph.D, Graduate school, Dusit Thani College, Bangkok, Thailand

I Gusti Musa Budidarma, Ph.D, Universitas Klabat, Indonesia

Le, Ngoc Thang B, Ph.D, National Economics University Hanoi, Vietnam

Assoc.Prof.Dr. Hery Winoto Tj, SE., MM., CPHR., CHCP-A., Krida Wacana Christian University, Indonesia

Lusius Sinurat, SS, M.Hum, Pena Sinergi, Indonesia

Dr. Uma Shankar Yadar, Motilal Nehru National Institute of Technology Allahabad Prayagraj, India

Dr. Kamran Abdullayev, Institute of Economics of Azerbaijan National Academy of Sciences, Azerbaijan

Dr. Lanita Winata, Griffith University, Australia

Dr. Cris Norman P. Olipas, Nueva Ecija University of Science and Technology, Philippines

Vinay Singh, UPES, India

Rammen Andino Sinaga, Institut Agama Kristen Negeri Tarutung, Indonesia

**Reviewer Team:**

Dr. Safuan. ST, M.T, M.M., Universitas Jayabaya, Indonesia

Muhammad Tasjiddin Teheni, S.Si., M.Si, Politeknik Baubau, Indonesia

Hendra Cipta, M.Si, Universitas Islam Negeri Sumatera Utara, Indonesia

Pardomuan Robinson Sihombing, SST, M.Stat,C.PS, BPS-Statistics Indonesia, Indonesia

La Ode Asmin, S.Si., M.SC., Institut Agama Islam Negeri Kendari, Indonesia

Wahyu Ziaulhaq. M.Sos, Sekolah Tinggi Agama Islam Aceh Tamiang, Indonesia

Dr. Nurcaya, S.Pd., M.pd., Universitas Puangrimaggalatung, Indonesia

Bayu Hari Nugroho, S.T, M.T, Universitas Mercuru Buana, Indonesia

Saut Matedius Situmorang, ST, MT, Universitas Efarina, Indonesia

Effine Lourrinx, S.T., M.Ling., Politeknik Rukun Abdi Luhur, Indonesia

Devi Rahmayanti, S.T, M.T, Universitas Gajayana Malang, Indonesia

Eka Setiawati, M.Pd, STKIP Setia Budhi, Indonesia

Fathiah, M.Eng., UIN Ar Raniry Banda Aceh, Indonesia

Muhammad Yahya Matdoan, S.Si.,M.Si, Universitas Pattimura, Indonesia

FX Anjar Tri Laksono, S.T, M.Sc. Ph.D, Candidate, Universitas Jenderal Soedirman, Indonesia

Lalu Delsi Samsumar, M.Eng., Universitas Teknologi Mataram, Indonesia

Budi Arlius Putra, Ph.D, Universitas Adiwangsa Jambi, Indonesia

Yeyi Gusla Nengsih, S.Kom., M.Kom, Universitas Imelda Medan, Indonesia

Dr.eng. La Ode Ahmad Barata, Universitas Halu Oleo Kendari, Indonesia

Alfry Aristo Jansen Sinlae, S.Kom., M.Cs., Universitas Katolik Widya Mandira, Indonesia

Dr. Sidarta Sagita, MARS, Universitas Nusa Cendana, Indonesia

Maritime Medicine Specialist Program (Sp.KL) Medical Faculty, Hang Tuah University, Surabaya, Indonesia

dr. Dito Anurogo, M.Sc., Taipei Medical University, Taiwan

Enzo Wiranta Battra Siahaan, S.T, M.T, Universitas Darma Agung, Indonesia

Daniel Alfa Puryono, S.Kom., M.Kom, STMIK AKI Pati, Indonesia

Dr. H. Ahyar Wahyudi, S.Kep.Ns., M.kep, Lembaga Akreditasi Fasilitas Kesehatan Indonesia, Indonesia  
Ratna Indrawati, Lembaga Akreditasi Fasilitas Kesehatan Indonesia, Indonesia  
Putri Sari Margaret Julianty Silaban SE, M.Si, Universitas Negeri Medan, Indonesia  
Rosario Trijuliamos Manalu, M.Si, Bioteknologi - IPB University, Indonesia  
Apt. Muh Taufiqurrahman, M.Farma, Magister Farmasi, Universitas Pancasila, Indonesia  
Thirunavukkarasu, National Taiwan Ocean University, Taiwan  
Alamsyah, SE., M.Si, Universitas Muslim Indonesia, Indonesia  
Dr. Ruth G. Luciano, Nueva Ecija University of Science and Technology, Philippines  
Ir. Rinasa Agsitya Anugrah, S.Pd., M.Eng., Universitas Gadjah Mada, Indonesia  
Dr. Eko Prasetyo, S.KM, M.Kes, Universitas Diponegoro Semarang, Indonesia  
I Gede Suputra Widharma, ST., MT., Universitas Gadjah Mada Yogyakarta, Indonesia  
Nurul Pratiwi, M.Si., Kimia-Universitas Andalas, Indonesia  
Dr. Phoummixay siharath, University of The Philippines Deliman, Philippines  
Dr. Stella Tinny Kaunang, SPi, MSi, CSMA, Universitas Sam Ratulangi Manado, Indonesia  
Tanti Tri Lestary, S.ST.,Bdn.,M.Keb, S2 Magister Kebidanan Universitas Brawijaya, Indonesia  
Dr muhammad nur abdi SE MM, Universitas islam negeri alauddin makassar, Indonesia

**Administration:**

Tiara Friska Mauliana, Formosa Publisher, Indonesia

**Address:**

PT. Formosa Cendekia Global

Jl. Sutomo Ujung No.28 D, Durian, Kecamatan Medan Timur, Kota Medan, Sumatera Utara 20235, Indonesia.

Website: <http://formosapublisher.org>

Phone: +62 877-1388-1007

Email: [admin@formosapublisher.org](mailto:admin@formosapublisher.org)

**Table of Contents**

Vol. 3 No. 11 November 2024

Editorial Team

Content

Editorial

---

Risk Attribute Analysis and Risk of Adherence to Taking Medication for Pulmonary TB Patients at the Jayapura Regency Office <i>Hasmi, Sarce Makaba</i>	2407-2416
Optimizing the Quality of Tourism Management Services in Sumatra: Integration of Total Quality Management, CRM, and Innovation as Key Factors <i>Sunday Ade Sitorus</i>	2417-2434
Analysis of Sea Surface Temperature (SST) Patterns in Arafura Waters Using Google Earth Engine (GEE) for Early Detection of Environmental Threats <i>Annisa Harum Sadewa, Gentio Harsono, Yosef Prihanto, Luwis Surani Haloho</i>	2435-2444
Design of a Stock Forecasting Dashboard using Python-Streamlit and FB Prophet with AI <i>Edra Arkananta Gultom, Kartika Dewi Sri Susilowati, Anik Kusmintarti</i>	2445-2464
Application of Weather Modification Technology for Wetting Peatlands as a Mitigation Measure for Forest and Land Fires in South Kalimantan Province <i>Lutfi Fitriano, Aris Poniman, Gentio Harsono</i>	2465-2476
Monitoring, Evaluation, and Analysis of BPJS Referral Implementation at Primary Healthcare Facilities: Literature Review <i>Fadhilah Norman, Salahuddin Andi Palloge, Rachmat Faisal Syamsu</i>	2477-2488
Risk Attribute Analysis and Risk of Adherence to Taking Medication for Pulmonary TB Patients at the Jayapura Regency Office <i>Hasmi, Sarce Makaba</i>	2489-2498
Analysis of the Factors Influencing Soybean Demand in North Sumatra Province <i>Surtan Hasibuan</i>	2499-2514
The Role of Internet of Things (IoT) on Human Resources in Industry 4.0 <i>Oktafina Noor Ulfa</i>	2515-2526
Evaluating the Influence of Viral Marketing and Brand Awareness on Purchase Decisions Study Tiktok Shop <i>Hartini Pratiwi Pane, Ismail Napitupulu, Syahrika Luthfi, Syafrizal Helmi Situmorang</i>	2527-2538
The Influence of Health Education about Anemia Using Audiovisual Media on Knowledge and Attitude Adolescent Girls in MTS Sabilarrasyad Samarinda <i>ElindaNor Hayati, Sri Hazanah, Bernadetha</i>	2539-2550

Welcome to the inaugural issue of the Formosa Journal of Science and Technology (FJST), a platform dedicated to the advancement and dissemination of knowledge in the fields of science and technology. As a peer-reviewed journal, FJST aims to publish high-quality research articles, reviews, and case studies that reflect the latest advancements and innovative practices in various scientific disciplines.

In an era characterized by rapid technological change and scientific exploration, the importance of sharing research findings and fostering collaboration among scholars cannot be overstated. FJST seeks to bridge the gap between theoretical knowledge and practical application, providing researchers, practitioners, and educators with a forum to exchange ideas, discuss challenges, and explore solutions.

Each issue of FJST will feature contributions from diverse fields, including but not limited to, environmental science, engineering, information technology, and biotechnology. Our editorial board comprises esteemed scholars and practitioners who are committed to maintaining the highest standards of academic integrity and rigor.

We are excited to showcase a collection of groundbreaking research in this issue, reflecting the vibrancy and dynamism of the scientific community in Formosa and beyond. We invite our readers to engage with these articles, share insights, and contribute to the ongoing dialogue that drives innovation and progress.

Thank you for being a part of the Formosa Journal of Science and Technology. We look forward to your support and contributions as we embark on this exciting journey together.

Happy Reading

Professor Jen Peng Huang, Ph.D  
Editor-in-Chief