



## About the Journal



International Journal on Advanced Science, Engineering and Information Technology (IJASEIT) is an international peer-reviewed journal dedicated to interchange for the results of high quality research in all aspect of science, engineering and information technology. The journal publishes state-of-art papers in fundamental theory, experiments and simulation, as well as applications, with a systematic proposed method, sufficient review on previous works, expanded discussion and concise conclusion. As our commitment to the advancement of science and technology, the IJASEIT follows the open access policy that allows the published articles freely available online without any subscription.

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### Important Dates :

Paper Submission Date: Any time

Online Publication Date: Last date of February, April, June, August, October, December

- NEW 2023 Acceptance Rate: 16.04 % | 2022 Acceptance Rate: 15.22 % | 2021 Acceptance Rate: 16.58 %
- NEW IJASEIT has launched a new template since Vol. 11 (2021) No.1 : Template IJASEIT (<https://docs.google.com/document/d/13ewxz24hRvdXgzK9ntcIS8RqVMq0tVHN/edit?usp=sharing&ouid=108718617662812411341&rtpof=true&sd=true>)
- NEW Scimago 2023 -> 0.18 | Q4 and Scopus CiteScore 2023 -> 1.4 | 42<sup>th</sup> percentile / 3rd quartile Scopus.

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2025-02-08

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## Current Issue

Vol. 15 No. 1 (2025)

### Articles

Artificial Intelligence Convergence Teaching Expertise Scale for Pre-service Teachers in Korea: A Validity and Reliability Study (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/12409>)

Seong-Won Kim

DOI : 10.18517/ijaseit.15.1.12409 (<https://dx.doi.org/10.18517/ijaseit.15.1.12409>)

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Generative AI-Powered Synthetic Data for Enhancing Predictive Analytics in Blood Donation Supply Management: A Comparative Study of Machine Learning Models (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20498>)

Koh Chee Hong , Thong Chee Ling , Raenu AL Kolandasamy , Abdul Samad Bin Shibghatullah , Nazirul Nazrin Bin Shahrol Nidzam , Samer Sarsam , Halimah Badioze Zaman

DOI : 10.18517/ijaseit.15.1.20498 (<https://dx.doi.org/10.18517/ijaseit.15.1.20498>)

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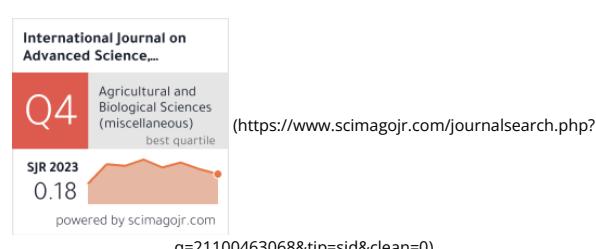
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## Articles

Comparative Analysis and Exploration of 3DResNet-18 and InceptionV3-GRU with Temporal Segment Network (TSN) Framework for Laparoscopic Surgical Video Expertise Classification (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20144>)

✉ Liem Roy Marcelino, Samuel Batara Kelengke Munthe, Ronny Dominikus Munthe, Eko Adi Sarwoko, Aris Sugiharto, Helmie Arif Wibawa, Aris Puji Widodo, Fajar Agung Nugroho, Anis Farhan Binti Mat Rafeei, Adi Wibowo

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Diabetes Early Prediction Using Machine Learning and Ensemble Methods (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20947>)

✉ Hyung-Ho Ha, Hangun Kim, Young Hyun Yu, Hyun Sim

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Optimization of Robotic Movement: Applying Lie Algebra to Improve the Performance of mBot2 (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20501>)

✉ Puguh Wahyu Prasetyo, Adhy Kurnia Triatmaja, Fariz Setyawan, Angger Hafid Prabawa, Hafizh Naufal Azmi, Muhammad Ardiansyah, Samsul Arifin

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Rainfall Prediction Using Statistical Downscaling Based on Support Vector Machine in Selangor (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/12420>)

✉ Nur Farah Amieera Mat Hussin, Shazlyn Milleana Shaharudin, Nurul Ainina Filza Sulaiman, Noor Hamizah Mohamad Sani, Sumayyah Aimi Mohd Najib, Hairulnizam Mahdin, Mohd Saiful Samsudin, - Rasyidah

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387-394

Transforming Orthodontics: Exploring Evolution and Applications of Artificial Intelligence (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20157>)

✉ HeeJeong Jasmine Lee, Nurul Syahira Mohamad Zamani, Asma Ashari, Reuben Axel Wee Ming How

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Web Design Analysis of Fisheries Startups in Indonesia: A Study of Aruna, Minapoli, and eFishery (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20178>)

✉ Ridar Hendri, Aidil Fitriansyah, Eni Yulinda, Nurul Utami

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Digital Transformation in Tourism Based on Android Applications for Guides and Recommendations for Tourist Destinations (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20288>)

✉ Muhammad Aqil Haibatul Akbar, Jaja Kustijana, Heri Setiyorini, Diki Fahrizal

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The Effect of the Number of Classes on the Values Resulting from Evaluation Metrics in the YOLOv5 Model (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20495>)

✉ Esi Putri Silmina, Tikaridha Hardiani, Silvi Lailatul Mahfida

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419-425

Development of an Internet of Things-Based Water Quality Monitoring System for Shrimp Ponds Utilizing Mappi32 (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20339>)

✉ Herlinawati, Afri Yudamson, Sri Ratna Sulistiyantri, Muhammad Ifan Saputra, Bagus Hendrawan

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Volume Prediction of Axisymmetric Fruits Using Optimized Convolutional Neural Networks with Transfer Learning Strategy (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20637>)

✉ Vincentius Christian Wariky, Joko Siswanto, Njoto Benarkah

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Text Data Security through Double Encryption: Implementation of Unimodular Hill Cipher and Advanced Encryption Standard (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20424>)

✉ Samsul Arifin, Dwi Wijonarko, Muhammad Faisal, Muhammad Nabil Pratama, Puguh Wahyu Prasetyo

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Leveraging A Robotic Arm Platform for Low-Cost Calibration of Inertial Sensors on LAPAN Sounding Rockets (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20593>)

✉ Khaula Nurul Hakim, Yuniaro Wimbo Nugroho, Kandi Rahardiyanti, Mirza Zulfikar Rahmat, Bagus Wikaksono

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Design and Implementation of Four-Parallel Turbo Decoder for HomePlug Green PHY (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/12515>)

✉ Jeongju Jeon, Sunhee Kim

DOI : 10.18517/ijaseit.15.2.12515 (<https://dx.doi.org/10.18517/ijaseit.15.2.12515>)

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Asymmetrical 4x2 Array Microstrip Antenna Using Glass Fiber-Ramie-Alumina-Carbon Composite Substrate for 5G Mobile Communication (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/20275>)

✉ Irfan Mujahidin, Budi Basuki Subagio, Muhasan Novitasari Mara, Helmy, Akio Kitagawa

DOI : 10.18517/ijaseit.15.2.20275 (<https://dx.doi.org/10.18517/ijaseit.15.2.20275>)

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Using Opposition Golden Jackal Optimization Algorithm (OGJO) in Improving Some Kernel Semiparametric Models: A Comparative Study (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/12808>)

✉ Dalia Mahfood Abdulhadi, Husam Abdulrazzak Rasheed

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**A Study on the Estimation of the Frobenius Numbers Generated by Binomial Coefficients Using Linear Regression** (<https://ijaseit.insightsociety.org/index.php/ijaseit/article/view/12653>)

✉ Kyunghwan Song

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