

# CERTIFICATE OF ACHIEVEMENT

This certificate is presented to

**R. Surya, Murugappan Mullai, Grienggrai Rajchakit,  
Govindan Vetrivel, Saravanan Subraja**

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**for winning the Consolation Prize**

in the

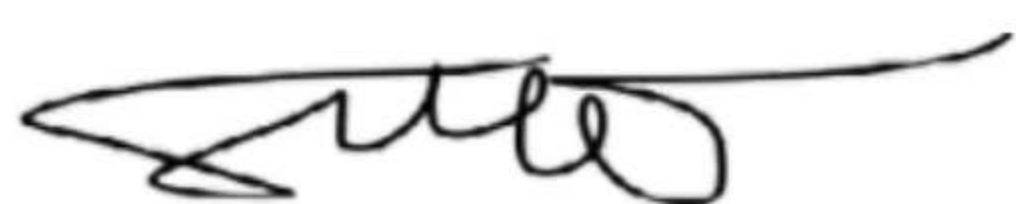
**2nd International Article Writing Competition 2024**

for their outstanding article titled

**NEUTROSOPHIC ECONOMIC ORDER QUANTITY:  
BACKLOGGED SHORTAGES AND QUALITY ISSUES**

in

**International Journal on Robotics, Automation  
and Sciences (IJORAS)**



**PROF. IR. DR. SIM KOK SWEE**

Editor-in-Chief  
International Journal on Robotics, Automation  
and Sciences (IJORAS)



**PROF. DR. TAN SIOW HOOI**

Director  
MMU Press. Multimedia University





**2<sup>nd</sup> International Article Writing Competition 2024**  
 Category: OPEN, POSTGRADUATE, UNDERGRADUATE

**CLOSING DATE DEADLINE EXTENDED 6 MAY 2024**

**1<sup>ST</sup> PLACE** RM800  
**2<sup>ND</sup> PLACE** RM500  
**3<sup>RD</sup> PLACE** RM300  
 Consolation Prize X2 RM100 x2

## APPLAUSE FOR THE 2024 WINNERS!

MMU Press is thrilled to announce the winners of our competition! Your hard work and dedication have truly shone through.

We are pleased to present the list of winners from the following journals:

### Journal of Engineering Technology and Applied Physics (JETAP)

Prize	Title	Author(s)
<b>Category: Open</b>		
1st	Microwave Sensor for Sodium Chloride Density Measurement in Aqueous Solutions	Kim Ho Yeap, Jia Le Lam, Siu Hong Loh, Veerendra Dakulagi, Ahmad Uzair Mazlan
2nd	CRATSM: An Effective Hybridization of Deep Neural Models for Customer Retention Prediction in the Telecom Industry	Johnson Olanrewaju Victor, XinYing Chew, Khai Wah Khaw, Zhi Lin Chong
3rd	Study on Cation-Exchange of Removal Metallic Ions at PPy/PVS film	Lay Lian Teo
<b>Category: Postgraduate</b>		
2nd	Optical and Structural Properties of V2O5 Electrochromic Thin Films	Ming Yue Tan, Kah Yoong Chan, Gregory Soon How Thien, Kar Ban Tan, H.C. Ananda Murthy, Benedict Wen Chen Au
Consolation	Evolution of Requirements Engineering in Agile Methodology – Literature Review	Ayesha Anees Zaveri, Juliana Jaafar, Eiad Yafi, Sarama Shehmir
<b>Category: Undergraduate</b>		
1st	Temporal Convolutional Recurrent Neural Network for Elderly Activity Recognition	Ng Jia Hui, Pang Ying Han, Sarmela Raja Sekaran, Ooi Shih Yin, Lillian Wang Yee Kiaw

### International Journal on Robotics, Automation and Sciences (IJORAS)

Prize	Title	Author(s)
<b>Category: Open</b>		
1st	Forecasting PM2.5 Concentrations in Chiang Mai Using Machine Learning Models	Manlika Ratchagit
2nd	Susceptibility Inference and Response on Transmission Dynamics of EBOLA Virus in Fuzzy Environment	Saravanan Subraja, Murugappan Mullai, Grienggrai Rajchakit, Govindan Vetrivel, R. Surya
3rd	Exploring Recommender Systems in the Healthcare: A Review on Methods, Applications and Evaluations	Su-Cheng Haw, Jayapradha Jayaram, Elham Abdulwahab Anaam, Heru Agus Santoso
Consolation	Neutrosophic economic order quantity: Backlogged shortages and Quality issues	R. Surya, Murugappan Mullai, Grienggrai Rajchakit, Govindan Vetrivel, Saravanan Subraja
Consolation	Review on Development of Digital Twins for Predicting, Mitigating Faults and Defects in Solar Plants	Chockalingam Palanisamy, Gangadharan Tharuma
<b>Category: Postgraduate</b>		
1st	Performance Evaluation of Machine Learning Techniques on Resolution Time Prediction in Helpdesk Support System	Tong-Ern Tai, Su-Cheng Haw, Wan-Er Kong, Kok-Why Ng
2nd	Complement Properties of Pythagorean Co-Neutrosophic Graphs	Govindan Vetrivel, Murugappan Mullai, Grienggrai Rajchakit, R. Surya, Saravanan Subraja
<b>Category: Undergraduate</b>		
1st	Human Fall Motion Prediction – A Review	Raphon Galuh Candraningtyas, Andi Prademon Yunus, Yit Hong Choo
2nd	Vendor Evaluation and Selection for Forwarding Activities Using Stepwise Weight Assessment Analysis-Combined Compromise Solution (SWARA-CoCoSo) Method	Bilqis Adillah Rachman, Anastasia Lidya Maukar

**Journal of Informatics and Web Engineering (JIWE)**

Prize	Title	Author(s)
<b>Category: Open</b>		
1st	Treatment Recommendation Using BERT Personalization	J Jayapradha, Yukta Kulkarni, Lakshmi Vadhane G, Palanichamy Naveen, Elham Annam
2nd	Development of Virtual Reality Based Left Brain System	Teo Kok An, Toa Chean Kim, Sim Kok Swee, Lew Kai Liang
3rd	Investigation on Understanding the Numeracy Capacity of Intellectual Disabled Students using Enabling Technology Tools: Web Application, AR and UI/UX	Vishvijit Thakar, Pratik Vyas, Romany Thakar
Consolation	Comparative Evaluation of Machine Learning Models for Mobile Phone Price Prediction: Assessing Accuracy, Robustness, and Generalization Performance	Saima Anwar Lashari, Muntazir Khan, Abdullah Khan, Sana Salahuddin, M. Noman Atta
Consolation	Social Messaging Application with Translation and Speech- to-Text Transformation	Kang Qin Yip, Pey Yun Goh, Lee Ying Chong
<b>Category: Postgraduate</b>		
1st	Plant Disease Detection for Precision Agriculture using Deep Learning Techniques	Usman Ali, Maizatul Akmar Ismail, Riyaz Ahamed Ariyaluran Habeeb, Syed Roshaan Ali Shah
2nd	Ensemble-SMOTE: Mitigating Class Imbalance in Graduate on Time Detection	Theng-Jia Law, Choo-Yee Ting, Hu Ng, Hui-Ngo Goh, Albert Quek
3rd	Performance Evaluation on E-Commerce Recommender System based on KNN, SVD, CoClustering and Ensemble Approaches	Wan-Er Kong, Tong-Ern Tai, Palanichamy Naveen, Heru Agus Santoso
Consolation	PI Class – A Revolutionary Step Forward in Hybrid Class Management System	Qasim Hassan , Nabiha Faisa, Ayesha Anees Zaveri
Consolation	MOBITEST – A Software for Mobile-base Testing	Ayesha Anees Zaveri , Ramsha Mashood, Nabiha Faisal, Misbah Parveen, Naveera Sami, Mobeen Nazar, Saba Imtiaz
<b>Category: Undergraduate</b>		
1st	Empirical Analysis of CI/CD Tools Usage in GitHub Actions Workflows	Adam Rafif Faqih, Alif Taufiqurrahman, Jati H. Husen, Mira Kania Sabariah
2nd	Development of Robot Feature for Stunting Analysis Using Long-Short Term Memory (LSTM) Algorithm	Muhammad Rahadian Abdurrahman, Halim Al-Aziz, Farras Adhani Zayn, Muhammad Agus Purnomo, Heru Agus Santoso
3rd	Enhancing Cybersecurity Awareness through Gamification: Design an Interactive Cybersecurity Learning Platform for Multimedia University Students	Adliil Khaliq bin Abdul Razack, Mohamad Firdaus bin Mat Saad
Consolation	Review on Automated Storage and Retrieval System for Warehouse	Alex Low Kai Jie, Sim Kok Swee, Lew Kai Liang

**International Journal of Creative Multimedia (IJCM)**

Prize	Title	Author(s)
<b>Category: Postgraduate</b>		
1st	AR Technology Protection of Intangible Cultural Heritage Clay Sculptures in Henan: Theoretical Discussion and Path Analysis	Lu Hexiang, Mohd Ekram AlHafis bin Hashim
2nd	Understanding FRBR-based Information Visualisation of the Wizarding World of Harry Potter	Nur Syahirah Ahmad Nawawi, Sharifah Nur Amirah Sarif Abdullah
<b>Category: Undergraduate</b>		
1st	Product Design and Its Role In Improving The Daily Lives of Poverty-Stricken Societies	Wan Ardini Binti Wan Edrin, Nur Hatice Zaim
2nd	Malaysia's Film Censorship Board (LPF): A Necessity or Abolishable	Dexter Boon Hui Lee, Megan Wonowidjoyo

**International Journal of Management, Finance and Accounting (IJOMFA)**

Prize	Title	Author(s)
<b>Category: Open</b>		
1st	Determinants of Subjective Well-Being of Migrants: A Systematic Review	Dombagaha Pathiranage Marian Shavini Medonka Peiris
2nd	Understanding the Resistance towards Apple Pay among Malaysians	Krishna Moorthy, Yong Qing Low, Chun T'ing Loh
3rd	Decade-Long Analysis of Sustainable Development Goals Compliance and Financial Performance Tiers in All Banking Companies Listed on Bursa Malaysia	Kien Seng Lok, Khai Wah Khaw, XinYing Chew, Wei Chien Ng
<b>Category: Postgraduate</b>		
1st	Antecedents of Organisational Ethical Culture towards Social Sustainability for Companies in Malaysia	Pei Xuan Tan, Kok Wai Chew
2nd	The Challenges of Autonomous Vehicles In Malaysia: From The Perspective Of Motorcycle Traffic Crashes	Jen Sim Ho, Wai Hoong Alvin Poi
3rd	Examining the Offline Shopping Preferences of Millennial Women: A Comprehensive Review	Ilham Khalisah Binti Khairuddin, Anusuyah Subbarao
Consolation	Cooperative Preschool Education in Ethnic China: Ulanqab Case Study	Yu Dong, Siow-Hooi Tan, Hway-Boon Ong
<b>Category: Undergraduate</b>		
1st	Socioeconomic Factors Affecting Healthcare Expenditures in Selected Asian Countries	Nurin Amni Aqilah Cek Ahmad Azam, Mazlynda Md Yusuf
2nd	Unveiling the Pathways: Exploring Influential Factors Shaping the Intentions to Engage with ChatGPT	Nurul Izzah Binti Abd Sukor, Anusuyah Subbarao
3rd	The Impact of Social Media Advertising on Online Shopping Preferences in Nilai City, Malaysia	Fatimah Az Zahra Binti Zulkifli, Shahrina Ismail, Sharifah Fairuz Syed Mohamad
Consolation	Factors Influencing Non-Performing Loans between Islamic and Conventional Banks in Malaysia	Najwa Hanisah Binti Mohd Azmi, Sharifah Fairuz Binti Syed Mohamad, Shahrina Ismail
Consolation	Attracting Foreign Direct Investment (FDI) in Madani Economy: What factors matter?	Yi-Shan Chong, Chee-Lip Tee

**Issues and Perspectives in Business and Social Sciences (IPBSS)**

Prize	Title	Author(s)
<b>Category: Open</b>		
1st	A Study of Online Grocery Shopping Behaviour in Malaysia	Krishna Moorthy, Normala S. Govindarajo, Lim Shi Xiang, Loh Chun T'ing
2nd	Analyzing Consumer Preference Factors and their Impact on Willingness in Vehicle Leasing in Malaysia	Omar Hamdan Mohammad Alkharabsheh, Pok Wei Fong, Raed Hussam Alzoubi, Low Mei Peng, Pan Ying Qian, Muhammad Khalid Shahid
3rd	Internship Program to Enhance Readiness to Work for Vocational Education Students	Willson Gustiawan, Bela Kurnia Dwi Putri, Tuti Azra, Maya Permata Sari
<b>Category: Postgraduate</b>		
1st	Women Supporting Women in Entrepreneurship: Examining the Role of Women in Empowering Each Other	Nur Ilyia Syafiqah Binti Abdul Malik, Mohd Rizal Bin Abdul Razak, Al-Mansor Bin Abu Said, Hishamuddin Bin Ismail
2nd	Sustainable development of rural education tourism – a case of DASHU Town, Chun'an County	Yang, Jingyan; Tan, Siow-Kian
3rd	The Influence of Perceived Benefits and Perceived Barriers on Career Motivation for Medical Specialisation: The Role of Facilitating Conditions as the Moderator	Shanthi Isparan, Seow Ai Na, Chang Jing Jing
Consolation	The Role of Financial Literacy in Driving Sustainable Entrepreneurial Success: A Case Study of Lapo Microfinance Institution (MFI), Nigeria	Lydia Nkechi Philip
Consolation	Service quality integration – a case study of Qiandao Lake Scenic Spot, China	Zhang, Jianhua, Tan, Siow-Kian, Tan, Siow-Hooi
<b>Category: Undergraduate</b>		
1st	The impact of AI chatbot adoption on customer experience in e-retailing	Siow Jing Shuan, Teoh Bak Aun, Ong Chui Zi
2nd	Factors influencing the adoption of digital banking among university students in urban areas: A comparative analysis using Analytical Hierarchy Process (AHP)	Farisha Nazwani Faizuddin, Karmila Hanim Kamil
3rd	Analyzing the determinant factors of Vietnam's FDI inflow	Chan Huan Ching, Tee Chee Lip

**Journal of Communication, Language and Culture (JCLC)**

Prize	Title	Author(s)
<b>Category: Open</b>		
1st	Utilizing AI-powered Chatbots for Learning Endangered Nigerian Languages and Considerations for Their Development	Abdulah Olarewaju Aremu
2nd	Jabs Or Not? Perceived Benefits and Social Media Exposure as Predictors of Covid-19 Booster Jab Vaccination Practices with Self-Efficacy as Moderator	Tak Jie Chan, Pei Xin Chong, Sheh Chin Foo, Yang Tian
3rd	'Share or Not', The Relationship Between User Motivations and Fake News Sharing about Political Issues in Malaysia	Mohamad Uzair bin Mohamad Roshdi
Consolation	How Words are Formed? A Case Study of Morphological Integration of Malay Words in Nonya Cuisine	Komalata Manokaran, Ong Shyi Nian, Nurul Huda Hamzah
Consolation	Exploring Cultural Diversity Awareness and Addressing Cultural Biases Among Undergraduate Students in Online Learning Environments	Syeda Saba Hashmi, Maryam Jan
<b>Category: Postgraduate</b>		
1st	Virtual Socialization among Malaysian Animal Crossing players during Movement Control Order	Tengku Intan Maimunah Tengku Sabri, Md Azalanshah Md Syed, Rosya Izzyanie Shamshudeen
2nd	Intersemiotic Translation: Mat Dollah's Batik Paintings of the Malay Folktale 'Puteri Gunung Ledang'	J. Yasodhara Menon, Krishnavanie Shunmugam, Selvajothi Ramalingam
3rd	Analysis of JAKIM's "Halal" Crisis Communication Strategies Using Image Repair Theory	Lai Pui Er, Foong Soon Seng, Nor Ez-Zatul Hanani Binti Mohamed Rosli, Pong Kok Shiong
Consolation	Perceptions of Language Teachers and Parents on Writing Module and Online Learning Platform in Evolving Students' Writing Skills	Raganeswari Ramasamy, Mariam Mohamad, Mageswaran Sanmugam, Hooi Chee Mei
Consolation	The Effectiveness of Samsung Product Placement in Korean Drama	Farah Nabila Hamdan, Khor Kheng Kia, Lee Lai Meng

**Asian Journal of Law and Policy (AJLP)**

Prize	Title	Author(s)
<b>Category: Open</b>		
1st	Abstention Obligation Under the UN Charter in the Light of the Subsequent Practice of the Permanent Members	Mei Yee Kang
2nd	Indo-Bangladesh Transboundary Water-Sharing of the Ganges and Teesta Rivers: Through the Lens of International Law and Practice	Noor Israth Jahan
3rd	Challenges of Implementing UNDRIP in Malaysia and International Progress	Letchumi M Balasubramaniam
Consolation	Economic Analysis of the Abuse of Dominance in the Context of Relevant Markets	Hiteshkumar Thakkar
Consolation	Analysing the Impact of Recent Amendments to the Employment Act 1955 on the Labour Force in Malaysia	Tan Pei Yee
<b>Category: Postgraduate</b>		
1st	Reproductive Organs Transplantation Under Shariah and Civil Law: Ethico-Legal Challenges	Bilal Hussain
2nd	Pet-Friendly Parks in Pursuit of Sustainable Urban Green Spaces	Lim Jing Xie, Farah Adibah Zulkifli
3rd	Navigating the Legal Landscape: Short-Term Rental Accommodations (Strs) in Malaysia and the Path Forward	Wong Hua Siong, Chung Kwok Whee
Consolation	Discovering the Heart of the Problems and Consequences of hadanah Abuse in Malaysia	Nurul Asyiqin Sazali, Sayyed Muhsin
Consolation	Representation and Warranties Important Statement for the Smooth Continuation of Business Transactions	Mabia Khatun
<b>Category: Undergraduate</b>		
1st	The Role of Royal Pardon in Malaysia: An Analysis and a Way to Move Forward	Hui Yai Loh, Hafiz Hakimi Haron
2nd	Bridging the Gap: A Multi-Pronged Approach to Road Safety in Malaysia	Lee Qian Hua, Gary Ng Kit Min
3rd	Striking the Right Chord: Legal Dynamics of Music Copyright Law in Malaysia	Liveenieesh Ramakrishnan
Consolation	Research in Biotechnology: Proprietary Rights and Scientific Standards	Sivashini Thanabalasingam

MMU Press wholeheartedly appreciates every author who took part in our competition and hopes to continue receiving your submissions. Our sincere gratitude is extended to the judges, the dedicated editorial team, and the organizing committee for their pivotal roles in ensuring the success of this competition.

Once again, congratulations to the winners, and best of luck to everyone in your future endeavors!

*\*The organizing committee has the right to make the final decision of the prizes.*

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