



2025 The 16th International Conference &
Global Competition on Systematic Innovation (ICSI & GCSI)

PAPER COMPETITION AWARDS

Category: Strategic & Business Aspects of Innovation Methods		
Rank	Paper Title	Authors
FIRST PLACE AWARD	A TRIZ-Knowledge-Driven Decision Support System for Enhancing Production Applicability and Circular Strategy Development	Wan-Chiao Chen, Hsin Rau
SECOND PLACE AWARD	A TRIZ-Based Knowledge Extraction Model for Patents Using NLP Technology	Tien-Lun, Liu, Yi-Hui Shi, Sheng-Kai Yang
THIRD PLACE AWARD	Integrating Digital Marketing Strategies and Innovative Customer Experiences through Business TRIZ Methodology to Enhance Customer Satisfaction.	Shu-Hsien CHANG, Jo-Peng TSAI

Category: Technical Aspects of Innovation Methods		
Rank	Paper Title	Authors
FIRST PLACE AWARD	A 3-element structure mapping for enhanced TRIZ problem-solving based on substance-field analysis	Ryan K.C. Chen, D. Daniel Sheu
SECOND PLACE AWARD	Cyclical TRIZ-Driven Roadmapping for BLDC Motor Evolution	Merve Yildiz İlhan, Koray Altun
THIRD PLACE AWARD	Refinement of Health Dietary Recommendations for Chronic Disease Patients Using Text Mining and TRIZ method	Bing, Kang-Ling, Fei, Yu-Ming
HONORABLE MENTION	An Electricity Activity Based Model of Constructing Product Carbon Footprint and Carbon Reduction	Hsiu-Chin Lin



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PAPER COMPETITION AWARDS

Category: Integration of Innovation Methods with Artificial Intelligence (AI), Internet of Things (IoT), Smart Design/Manufacturing/Services, or Computer-Aided Innovation (CAI)		
Rank	Paper Title	Authors
FIRST PLACE AWARD	Identify and prioritize TRIZ effect solutions using neural Network	Ching-Kai Wang, Dongliang Daniel Sheu, W.C. Yeh
SECOND PLACE AWARD	Integrating TRIZ and AI: Mutual Reinforcement and Emerging Synergies	Semyon D. Savransky
THIRD PLACE AWARD	A Clinical Study on the Application of Generative AI-Based Educational Medium in Tele-Early Intervention for Children with Language Delay	Sheng-Fang Huang, Ping-Yi Hsieh, Liang-Hui Wang, Jia-Ci He, Jhih-Yun Jian, Jo-Peng Tsai

Category: Other tools, theories, and applications related to or can be integrated with innovation methods, including Engineering design		
Rank	Paper Title	Authors
FIRST PLACE AWARD	Econic: Innovating Sustainable Water Bottles Using Recycled Cigarette Butts for Water Filter	Kyla Moreno, Evannes Suarez, Justine Teoxon, Tien-Ting Chiu
SECOND PLACE AWARD	Determinants of Information Security in the Introduction of AI into Manufacturing: A Systematic Innovation Approach	Jia-Ying Wen, Yun-Hsuan Hu, Yu-Cheng Lin, An Lu
THIRD PLACE AWARD	From Kitchen to Garden: A study on Liquid Fertilizer Made from Eggshells and Fruit Waste	Jhonna Claire Pada, Janice Timbao-an, Annalyn Albay, Tien-Ting Chiu