

The Joint Conference of 17th International Conference on Systematic Innovation (ICSI & GCSI) and 3rd International Conference on Data Science & Exploration in Artificial Intelligence (CODE AI-2026)

PAPER COMPETITION AWARDS

Category: (1) Innovation methods for theories and applications in strategy, business, services, education, opportunity identification, public policy, and related fields (including, but not limited to, TRIZ)		
Rank	Paper Title	Authors
FIRST PLACE AWARD	BAT-Refined LLM-TRIZ: Structural Verification and Content-Claim Risk Assessment for Reliable TRIZ Reasoning	Wei-Chang Yeh, D. Daniel Sheu
SECOND PLACE AWARD	Study on the Relational Structure of the 40 Inventive Principles in the TRIZ Contradiction Matrix through Network Analysis	Won-Shik Shin
THIRD PLACE AWARD	AN ANALYSIS OF TAIWANESE DISTILLERY TOURISM EXPERIENCES USING LDA AND TRIZ	Tsai-Chieh Lee, Yu-Ming Fei
HONORABLE MENTION	From Waste Identification to Contradiction Resolution: Integrating Lean Management and TRIZ for Manufacturing Process Improvement	Jeng-Ye Jung, Chia-Chen Yu, Yi-Ting Lin, Wen-Ting Dai, Ji-Chyuan Liou, Wei-Hung Chen, Chun-Tai Wang, Ying-Zhi Zhang

Category: (2) Innovation methods for theories and applications in technologies, products, processes, equipment, and related fields (including, but not limited to, TRIZ)		
Rank	Paper Title	Authors
FIRST PLACE AWARD	Methods to identify and analyze unaware failure modes	D. Daniel Sheu, Chun-Liang Hsu
SECOND PLACE AWARD	Integrating Semantic Analysis and TRIZ Characteristics into a Problem-Solving and Patent Knowledge Extraction Framework	Tien-Lun Liu, Sheng-Kai Yang, Chien Lin
THIRD PLACE AWARD	Is TRIZ Ready for Computational Inventiveness	Koray Altun
HONORABLE MENTION	Fibrous Future: Transforming Abaca Pseudo-Stem Waste into Sustainable Industrial Fiber and Crafts	Herguim Al Mangaliwan, Joanne Sonido, Norvie Penas, Tien-Ting, Chiu

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PAPER COMPETITION AWARDS

Category: (3) Innovative AI algorithms, AI applications, and data-driven innovations		
Rank	Paper Title	Authors
FIRST PLACE AWARD	From Estimation Bias to Intelligent Decision-Making: An AI-Based Risk Assessment Framework for Solar Power Systems	Ji-Chyuan Liou, Yu-Ming Fei, Wei-Yan Wang
SECOND PLACE AWARD	AI-Powered ECG Signal Denoising using Residual Variational Autoencoder with Dual Attention	Thanuja M, Soumyashree M Panchal, Prasanna Lakshmi G. S
THIRD PLACE AWARD	A Three-Layer AI Voice Verification Pipeline for Game-Based Corrective-Rule Production in TOEIC Grammar Learning: A Pilot Feasibility Study	Dang, Ngoc Kien
HONORABLE MENTION	Hybrid Cox–DeepSurv Framework for Interpretable Survival Prediction in Clinical Data	Muthulakshmi K, Gopalakrishnan T, Rashmi S

Category: (4) Emerging technologies, theories, applications, equipment, tools, and trends related to or integrable with systematic innovation		
Rank	Paper Title	Authors
FIRST PLACE AWARD	Automated Sustainability Report Generation System Based on Fine-Tuning Large Language Models	Yao-Lun Xuu, Yu-Kai Huang, Kai-An Tsai, Shu-Hsien Tai
SECOND PLACE AWARD	A Novel Service Quality Diagnostic Method Based on CNN-Driven Facial Emotion Analysis	An-Jin Shie, Qilin Yang, Jialiang Chen, En-Min Xu, Ching-Hung Lee
THIRD PLACE AWARD	Systematic Identification of Flaky Test Case using CodeBERT based Hybrid Autoencoder	Sambit Kumar Mitra, Shreya Banerjee, Snigdha Sen
HONORABLE MENTION	Attention Guided dual CNN feature Extractor with Stacked Ensemble for the Weed Detection	Vishnesh Reddy Patlolla, Manasa C M