## SPECIAL ISSUE ON COMPUTATIONAL INTELLIGENCE AND ITS APPLICATIONS

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This special issue contains eight selected articles on Computational Intelligence and Its Applications from the Asia Joint Conference on Computing (AJCC), held online on February 24-25, 2022. The organizers of AJCC2022 decided to bring out the impressive articles presented at the conference as a special issue of *ICIC Express Letters*, *Part B: Applications*.

All the selected articles are reviewed by three qualified professionals, ensuring the articles reach a high-quality standard. In addition, the editorial board of *ICIC Express Letters, Part B: Applications* has given another round of review. We hope this special issue encourages researchers to explore new theories and applications in computational intelligence.

Computational Intelligence (CI) is a significant dimension of computing to emulate how humans think and learn. The topics covered in this special issue include artificial intelligence, computer vision, deep learning, image classification, multiagent, data mining, the Internet of Things, embedded computing system, computer systems, and online learning. The techniques of CI allow us to find solutions to problems in areas addressed above. The selected papers are briefly described below. In Improved Grading Approval Process with Rule Based Grade Distribution System, authors (Pisal Setthawong and Rachsuda Setthawong) propose a grading approving system with rule-based grading distribution system that helps streamline the process by providing multiple features that are tailored to stakeholders in the grading approving process. In IoT-Based Temporary Immersion System for Micropropagation, authors (Kasidet Saisudsawat, Kritsana Kumphet and Wansuree Massagram) present a student-led project to retrofit a tissue culture Temporary Immersion System (TIS) for remote operation. In A Combination of K-Means and DBSCAN Customer Segmentation in B2B Business: A Case Study in Electrical and Mechanical Parts Industries, authors (Voravadhana Asavaphongsavanich, Sotarat Thammaboosadee and Rojjalak Chuckpaiwong) merge k-Means and DBSCAN into a new cluster to better understand customer behavior in the industrial segment. In Coalition Formation of Buyers in Real World Agriculture Domain, the author (Chattrakul Sombattheera) presents an algorithm for coalition formation of buyers in agriculture domain, where farmers use an application on their phones to buy fertilizers in group. In Learning Behavior Visualization of an Online Lecture Support System, authors (Jaruwat Pailai and Warunya Wunnasri) describe an online lecture support system for visualizing the learning behavior. In CBML: Classification – Thai Red Dragon Fruit, authors (Naruwan Yusamran and Nualsawat Hiransakolwong) present the CBML algorithm to automatically classify the species of Thai red dragon fruit from its image. In Combining SVM and Human-Pose for a Vision-Based Fall Detection, authors (Atchara Namburi and Thapani Hengsanankun) combine

<sup>\*</sup>Guest Editor for the Special Issue on Computational Intelligence and Its Applications

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support vector machine with Open-Pose method for detecting a human fall in color video sequences. In *Waste Management System Driven by Smart Technology Platform with a Social Enterprise*, authors (Nittaya Muangnak, Chaiwat Sirawattananon, Rathanit Sukthanapirat, Wannapa Pukdee and Jirawat Attaset) design an automated garbage sorting system through image analysis and develop a suite of waste management applications for a social enterprise.

We sincerely thank the authors who contributed their research. Also, we give special thanks to the reviewers for their efforts to give valuable suggestions. We greatly appreciate the hard work of the Editor-in-Chief of *ICIC Express Letters, Part B: Applications*, Professor Yan Shi, which made this special issue possible.