Special Issue

Hybrid Artificial Intelligence for Systems and Applications

Message from the Guest Editor

Hybrid AI integrates multiple AI approaches, including symbolic reasoning, machine learning, evolutionary computation, expert systems, and fuzzy logic, among others, to create more robust and adaptive systems. The concept of hybrid AI stems from the recognition that no single AI technique can excel in all scenarios. While machine learning algorithms, such as deep neural networks, excel at pattern recognition and classification tasks, they may struggle with explainability and reasoning. Conversely, symbolic reasoning approaches are adept at logical inference and decision-making but may lack the scalability and flexibility offered by machine learning techniques. By integrating these approaches, hybrid AI aims to overcome their limitations and solve complex problems more effectively. The systems and applications in hybrid AI are diverse and far-reaching. This Special Issue aims to explore the principles, methodologies, and applications of hybrid AI in various fields. By gaining a deeper understanding of hybrid AI, researchers can use it to solve real-world challenges and advance the field of artificial intelligence in various domains.

Guest Editor

Prof. Dr. Mobyen Uddin Ahmed
School of Innovation, Design and Engineering (IDT), Mälardalen University, Box 883, 721 23 Västerås, Sweden

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Editor-in-Chief

Prof. Dr. Yannis Manolopoulos
Department of Computer Science, School of Sciences and Engineering, University of Nicosia, 2427 Nicosia, Cyprus

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