International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics, BNM Institute of Technology Bengaluru, 27-28 January 2023

Proposal of Special Session

Title of Special Session:

Bio inspired learning, pattern recognition and analysis: Circuit to system approach

Objective of the special session

The purpose of this session is to provide academicians, top researchers and industry professionals a forum to discuss the "full spectrum" of recent theoretical advancements, cutting-edge technology, and creative uses of bio-inspired learning, pattern recognition and analysis from circuit to system level. One of the most intriguing study fields currently is bio-inspired computing, which is constantly showing outstanding ability in resolving challenging real-world issues in science and engineering problems. This special issue aims at providing a specific opportunity to review the state-of-the-art of this recently emerging and cross-disciplinary field of bio-inspired learning and adaptation. In this special issue, we bring together researchers to present the latest progress, novel research methodologies, and a broad spectrum of potential research topics in the fields of Artificial Intelligence and Machine Learning, Industry 4.0, Metaverse and AR/VR, Smart Cities, and Management of Smart Energy Grids.

Potential topics include but are not limited to the following:

- Analog and Mixed Signal Circuits and Systems
- Digital Integrated Circuits and Systems
- Multimedia Systems and Video Analytics
- Communications Circuits and Systems
- Intelligence system and machine vision
- Visualization
- Management of smart energy grids
- Communication and block chain technology
- Artificial Intelligence and Machine Learning
- Industry 4.0
- Metaverse and AR/VR
- Smart cities

SESSION CHAIRS:

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