

Tentative Outline

Special/Thematic Issue for the journal: "Recent Advances in Electrical & Electronics Engineering"

Title of the Thematic Issue: Emerging Trends and Innovations in ICT

Guest Editor's Name: Azlan Mohd Zain, Altaf O. Mulani, Geetanjali Kale, Pradip Varade

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• **Scope of the Thematic Issue (Brief introduction / abstract explaining the Thematic Issue):**

1. Big Data Storage and Analytics
2. Artificial Intelligence and Machine Learning
3. Cognitive systems, Vision and Perception
4. Embedded Systems and Internet of Things
5. Soft Computing
6. Computational Intelligence
7. Advanced Communication Technologies

Keywords: Big Data, Artificial Intelligence, Cognitive Systems, Soft Computing, Internet of Things.#

Sub-topics:

The sub-topics to be covered within the issue should be provided: Data Mining and Knowledge Discovery

- Data Warehousing and Visualization
- Big Data Management
- Information Security
- Blockchain interoperability, Consensus mechanisms
- Agents and Artificial Intelligence
- Trustworthy Machine Learning and Evolutionary Computation
- Neural Network Models, Deep Reinforcement Learning
- Scalable and Real-Time Machine Learning
- Multidisciplinary Natural Language Processing
- Intelligent Robotics
- AIML in information Security
- Computer Vision and Pattern Recognition
- Homography, Camera-Stereo Geometry, and Superresolution
- Attention Models and Generative Models in Vision
- Reinforcement Learning in Vision
- Cross Reality
- Key Management and Distribution
- Social Network Exploration
- Multimodal Interface
- Multimedia & Cognitive Informatics
- Pervasive Computing and Ambient Intelligence
- Future IoT Technologies, Architecture, Interoperability, Edge
- IoT Resource, Security, and Privacy Management, Self-Adaption
- LSI and VHDL Architecture, Design System On Chip Design for Variability, Reliability, Fault Tolerance, Test, and others

- Ant Colony Optimization and Swarm Intelligence
- Artificial Immune Systems
- Particle Swarm Optimization
- Swarm Intelligence
- Evolutionary Systems
- Genetic Algorithm
- Fuzzy logic and Systems
- Fuzzy Reconfigurable Systems
- Transfer learning
- Morphic computing
- Computational Intelligence in Bioinformatics and Computational Biology
- Computational Intelligence Multiagent System
- Ontology-based Intelligent Systems
- Quantum Computing
- Intelligent systems (tutoring, information retrieval, image processing, hybrid)
- Multidisciplinary applications of computational intelligence in Water, Autonomous vehicles, Clean energy, Healthcare, Agriculture, infrastructure, Defence related Technologies
- Bio Mechatronics and Rehabilitation Engineering
- Renewable systems

Schedule:

- ✧ Complete Thematic issue submission deadline: 20 February 2022

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