Recent Advances in Electrical and Electronic Engineering

Special Issue on Recent Trends in Information and Communication Technologies (ICT) Using Emerging Technologies

Guest Editors: Ashutosh Sharma

Resilient, scalable and extensible mission-critical networks are used to interconnect data enters, clouds, enterprise, customer sites and mobile entities using Information and Communication Technologies (ICT) emerging Technologies. Examples of systems in which these characteristics are needed to be included like mission-critical healthcare, computation-intensive, transactions (such as banking), automobile, transportation, entertainment, building architecture, energy and mobile/wireless computing systems/networks. A huge amount of data being generated by these applications and due to intense vast academic research, the data processing capabilities of ICT emerging technologies such as Artificial Intelligence (AI), machine learning and big data techniques have attracted researchers across the globe to address the challenges and opportunities to provide reliable service by mission critical networks in adverse conditions. There is a strong demand to investigate the present ICT emerging technologies such as artificial intelligence, machine learning, and big data algorithms/techniques to provide solutions for fault tolerance, reliability and availability in applications of mission critical networks.

Aim and Topics

The objective of this special issue is to concentrate on all aspects and future research directions related to these specific areas. In this context, we invite researchers to contribute original research articles as well as highly review articles that will seek the continuing efforts to understand the artificial intelligence, machine learning and big data techniques that lead to future improvements for providing reliable services in mission critical networks. We invite authors from both industry and academia to submit original research and review articles on topics including, the design, implementation, and optimization with the specific focus on models, protocols, and optimization algorithms in the following topics but not limited to:

- Artificial Intelligence tools & Applications in Mission-Critical Network
- Machine Learning Techniques for E-Healthcare in Mission-Critical Networks
- Evolutionary Techniques for Network Discovery and Network Restoration
- Advanced ICT Techniques for Routing and Load Balancing
- Deep learning and Artificial neural network
- Artificial intelligence, machine learning and big data techniques in Service Level Management
- Network Intelligence in ICT
- Quality of Service (QoS) ICT Deployment and Management

- Any other recent development in artificial intelligence, machine learning and big data techniques for Mission-Critical Networks

Issue Keywords: Artificial Intelligence, Machine Learning, Deep Learning, and Artificial neural network, Network Intelligence in ICT

Schedule

Interested authors need to submit their manuscripts according to the following schedule:

October 15, 2019: Paper Submission Deadline.

December 15, 2019: Reviews Returned to Authors.

January 30, 2020: Revision Submission.

February 25, 2020: Editor Decision

March 15, 2020: Final Manuscript Due

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