Recent Trends in Information and Communication Technologies (ICT) Using Emerging Technologies (RTICTET)

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DESCRIPTION:
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/ internet of things (IoT). 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 and IoT.

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
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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:

**Topics**
The list of topics spans all the areas of modern intelligent systems such as:

- Artificial Intelligence
- Deep Learning
- Machine Learning
- Pattern Recognition
- Artificial Neural Networks
- Reinforcement Learning
- Supervised, Semi-Supervised and Unsupervised Learning
- Computer Vision
- AI Powered Robotic Systems
- Natural Language Processing
- AI Powered Internet of Things
- Image and Video Processing and Analysis
- Data Mining
- Bayesian Learning
- Intelligent Agents and Multi-Agent Systems

**IMPORTANT DATES:**
Paper submission due: **December 30, 2020**
First-round review notification: **January 15, 2021**
Revision submission: **February 15, 2021**
Submission of final paper: **February 25, 2021**

For this SI the APC will be discounted (by 25%).