

## **Special Issue on Recent Research Challenges in Intelligent Techniques , Big Data and Internet of Things ITBDIOT2018**

With the impressive advancement in several areas and with the coming of ever-developing and pervasive computational resources, huge opportunities arise for developing intelligent Techniques to solve a variety of real-life problems which have uncertainty, blunder and ambiguity. Intelligent techniques mainly concern in providing simplex solutions using intelligent algorithms, scientific computing, computer vision, computational biology, natural language processing and computer graphics etc.

Big data analytics is a promptly developing research area extend the fields of computer science, information management, and has become a intelligent techniques have been successfully applied to solve problems in fields such as e-business, speech processing and synthesis ,knowledge discovery and data mining, intelligent computing, manufacturing industries, social networks, healthcare, transportation and telecommunication and so on. The utility of big data is found largely in the area of Internet of Things. Big data is used to build IoT architectures which include things-centric, data-centric, service-centric architecture, cloud-based IoT. Technologies enabling IoT include sensors, radio frequency identification, low power and energy harvesting, sensor networks and IoT services mainly include semantic service management, security and privacy-preserving protocols, design examples of smart services. To effectively synthesize big data and communicate among devices using IoT,

This special issue solicits novel and original manuscripts that demonstrate current research in all aspects of intelligent techniques, big data and internet of things.

Potential topics included, but not limited

- Security techniques that integrate sensor networks and big data
- Data communication in the convergence of sensor networks and Cloud computing
- Data fusion in the convergence of Cloud computing and big data
- Intrusion detection in IoT
- Data security and privacy
- Sensors and actuator networks
- Software/middleware Industrial IoT
- Intelligent and interactive interface
- Future Internet and network design for Industrial applications
- Novel applications that integrate cloud computing and big data
- Quality of service enhancement methods that integrate cloud computing and big data
- IoT services and Applications optimizing the use of big data
- Regression, classification and clustering for big data analysis
- Computer vision and Image analysis
- Intelligent systems & pattern recognition statistical ,structural and syntactic pattern recognition
- Intelligent Image, signal, and speech processing

- Intelligent internet modelling and communication systems
- Intelligent control, robotics and automation mobile robots
- Cognitive approaches & soft computing affective computing
- Intelligent business and knowledge management
- Tools and techniques for designing, implementing, & evaluating ubiquitous computing systems
- Laboratory and in situ studies of ubiquitous computing technologies in use
- Location-aware and context-based systems for ubiquitous computing
- Innovative pervasive computing applications
- Software evolution and maintenance in pervasive systems communication architectures for pervasive computing
- Positioning and tracking technologies
- Sensors and RFID in pervasive systems
- Any other area of advanced computing algorithms
- Advance micro architecture techniques
- Advances in network optimization, security and routing technique
- Mobile social networking applications for enterprise environments
- Online mobile targeted advertising
- Mobile entertainment, mobile multimedia, mobile and context-aware games

### **Important Dates:**

Paper submission due date : 30 May , 2018  
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