

Special Issue ICAMMAET/ ICTPACT2018 on Advanced Algorithms for IoT Cloud computing and Cyber-Enabled Applications

Internet of Things (IoT) applications are examined to be a bigger source of big data obtained from a more connected dynamic and real life world and is growing at a rapid pace. The acknowledgment of the IoT vision brings Information and Communication Technology nearer to numerous parts of this present reality life rather than the virtual life through advanced algorithms. There may be many issues to acknowledge it and give insight IoT services based on the applied algorithm technologies with much exertion and enormous consideration. The progressed applied algorithms of this research area create challenges, such as context information fusion, security, reliability, autonomous and intelligent connecting, trust application and framework for real-world life and the Cyber-Physical Systems have continuously permeated into all walks of our life at the personal, urban, and global scale, which is involving more and more people into an integration of physical, social, and mental space, called cyberspace. The development of generating numerous Internet things and establish Internet applications is constantly stimulate the requirements of cyber- framework support, encouraging technology innovation, and smart platform progress. Efficient algorithms and tools respecting to high performance computing and reproduction should be search to accord with the new phenomena, action, and process in the deeply distributed Cyber-Physical systems across the cyber-physical-social-intellectual conjugation.

Potential topics included, but not limited

- Advanced IoT services algorithms, technologies and applications on cloud computing
- Interoperable and Interactive middleware for IoT on cloud computing
- Infrastructure for computing service capabilities for IoT on cloud computing
- Advanced security, privacy, authentication, trust and verification scheme for IoT on cloud computing
- Cloud-based IoT mobility management and QoE/QoS enhancement
- Advanced theory and technologies for High Performance and Communications with IoT
- Hybrid Platform and Middleware Design for Cyber-Enabled Applications
- Parallel and Distributed Models for Cyber-Physical Systems
- Parallel Optimization Algorithm for Cyber-Enabled Applications
- Cloud-based Parallel and Distributed Algorithms for Wearable Computing
- High Performance Evaluation Metrics of Distributed Cyber-Physical Systems
- Real-Time Behavior Analysis and Interaction Measure in Cyberspace
- Data Transfer Scheduling and Resource Management for Cyber-Enabled Applications
- Framework and Implementation for Smart Energy Systems in Cyberspace
- Security, Privacy and Safety in Cyber-Enabled Applications

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