International Journal of Automation and Computing

Call for Papers

Special Issue on: "Cloud Computing"

With the rapid development of computing hardware, high-speed network, web programming, distributed and parallel computing, and other technologies, cloud computing has recently emerged as a commercial reality. In cloud computing, infrastructures, platforms, and software (applications) are all services, which can be delivered to users over the cloud. A public cloud will be available in a pay-as-you-go model to consumers. There are already many reports that investments in Cloud computing over the next few years will be increasing at a rate that we have never seen so far, which will bring significant benefits to Cloud users.

Technically, Cloud computing is still to mature and there are still many challenges, including fundamental models, infrastructures and architectures, provision of services and development of applications.

At a leading academic journal, we launch this timely special issue to provide a platform for researchers worldwide of relevant fields to present their state-of-the-art research in Cloud Computing technology. Original research papers are sought on a wide range of cloud computing topics, for example:

- **Cloud Computing Models**
  - Computing and programming models
  - Emerging business and economics models
  - Fault-tolerance, reliability and consistency models
  - Trustworthiness, privacy and security models
  - Models for evolution and migration of technology/applications in cloud environment
- **Cloud Architecture and Infrastructure**
  - Cloud operating systems
  - Cloud and grid computing
  - Inter-clouds, internal clouds and mobile clouds
  - Storage clouds and cloud databases
- **Cloud Platforms and Services**
  - Infrastructure as a Service (IaaS), Platform as a Service (PaaS), Software as a Service (SaaS) and Hardware as a Service (HaaS)
  - Self-configuration and adaptation of cloud platforms
  - Service search engines and semantic web
  - Design tools for cloud computing
  - Ubiquitous computing
  - Social networking
  - Quality of cloud services
- **Cloud Applications**
  - Data-incentive application
  - High performance computing applications
  - Automation applications in cloud computing
  - Scalable analytics
  - Data-warehousing
  - E-Commerce
  - Novel applications
- **Other Cloud Related Topics**
  - Cloud standards
  - Green computing
  - Power and resource management in clouds
  - Cloud computing case studies
  - Maintenance and management of cloud computing.

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Authors must select "***Special Issue: Cloud Computing***" in the submission process.