Cloud computing, networking, and their related service management including grid computing (as appropriate) have recently emerged out of marketing hype to viable computing/networking tools for reducing infrastructure deployment and service management costs without sacrificing the quality of service/experience (QoS/E).

Although the virtualization of computing and networking resources, and their self-organizing interconnection is at the heart of it, the methods/mechanisms/tools that are used to expose (visualization) resources and their utilization (the application programming interfaces of APIs) for developing *anything* (*) as a service (*aaS) are still ad-hoc and/or proprietary in nature. Security, privacy, and multi-tenancy support requirements add another dimension to the already complex set of Cloud — computing and networking — management problems.

This JNSM SI on CCNS management will include invited and referee-recommended papers on the following topics:

- Cloud Applications and Services
  - Any computing, data-storing, and networking as a service
- API for enabling Cloud-based Services
  - Public, Private, and Hybrid (toolkit approach) APIs
- Virtualization (of any and all resources) and Hosting
  - Virtualization of Clients/Desktop, Applications, Services, and Databases
  - Distributed Intra- and Inter-Domain Storage/FileSystems/Database
  - Distributed Intra- and Inter-Domain Scheduling of resources
  - Resources Mobility and Multi-tenancy
- Protocols and Interoperability
  - Adaptive Protocols for Generic Cloud Services
  - Inter-Domain Service-Specific Adaptive Protocols
- Private, Public, Community, Hybrid Clouds
  - Addressability, Networking Extensions, Service Quality Agreement
- Cloud Service Logging and Monitoring
  - Including Auditing and Verification
- Soft and Hard Privacy and Security for Cloud-based Services
  - Process, Practice and Mechanisms
- Risk, Resiliency, and SLA (RRS) of Services in Clouds
  - Risk-tolerance, MMTF, MMTR, etc. for Components and Apps/Services (End-to-End)
- Cloud Service and Infrastructure Management
  - Including Visualization, Automation, Debugging and Diagnosis
- Reports from CCNS management Experiments and Filed Deployments
  - University, Consortia, Industry/ Field Trials, etc.
- Mobility Management in Cloud Computing

- Cloud service hosting mobility and service migration
- Elastic computing using mobile codes

- Policy management in Cloud computing
  - Regulations and export control of using Cloud computing

Guest editor(s):

- Bhumip Khasnabish, ZTE USA, Inc. (vumip1@gmail.com)
- Dijiang Huang, Arizona State University, USA (Dijiang.Huang@asu.edu)
- Xiaoying Bai, Tsinghua University, China (baixy@tsinghua.edu.cn)
- Paolo Bellavista, Università degli Studi di Bologna, Italy (paolo.bellavista@unibo.it)
- Bruno Schulze, National Lab. for Scientific Computing - LNCC, Brazil (schulze@lncc.br)
- Gregorio Martinez, University of Murcia, Spain (gregorio@um.es)
- Nikos Antonopoulos, University of Derby, UK (N.Antonopoulos@derby.ac.uk)

Paper submission date:	June 15, 2011
Notification of acceptance:	November 30, 2011
Final paper due:	April 15, 2012
Publication date:	September 2012

http://www.springer.com/journal/10922

Journal of Network and Systems Management
Editor-in-Chief:D. Medhi
ISSN: 1064-7570 (print version)
ISSN: 1573-7705 (electronic version)
Journal no. 10922