

CALL FOR PAPERS

Special Issue of
IEEE e-Transactions on Network and Service Management (eTNSM)
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“Self-Managed Networks, Systems and Services”

As the networks, systems and services that sustain our day-to-day IT and communication infrastructures become increasingly complex, traditional solutions to manage and control them seem to have reached their limits. Researchers are thus testing alternate paradigms to organize these infrastructures. In recent years, self-* principles have raised much interest in integrated management, networking, distributed systems and software engineering. This interest builds on the success already encountered by self-organizing and self-adaptive systems in distributed artificial intelligence, material science, thermodynamics, etc.

In this special issue, we will investigate the potential of self-* technologies for managing and controlling networks, systems and services. By self-*, we mean self-management, self-organization, self-adaptation, self-monitoring, self-tuning, self-repair, self-configuration, etc. We intend to publish a mix of theoretical papers and experience reports on building real or simulated systems.

Topics of interest to this special issue include the following:

- self-managed networks, systems and services
- self-organization in P2P applications
- self-organizing ad hoc and sensor networks
- self-adaptive applications
- self-repairing distributed systems
- self-configuration in telecommunication networks
- self-organizing Grid services
- application of IT process models and service flows to self-management
- biologically inspired networks and systems
- context awareness and self-adaptation
- self-adaptive e-business services
- autonomic networking, autonomic computing
- goals and policies for self-managed networks and systems
- decision making in self-* systems
- case studies with self-* systems

Authors are requested to submit 10-page original contributions in PDF. Formatting instructions and guidelines are available at <<http://www.comsoc.org/livepubs/etn/authorgud.html>>. Papers should be submitted via e-mail to the two Guest Editors:

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Important Dates:

Submission deadline: **31 August 2006**
Notification of acceptance: 31 October 2006
Final paper due: 30 November 2006
Publication: 1Q2007 (tentative)