

# CALL FOR PAPERS

Computer Networks Journal

## Special Issue on Managing Emerging Computing Environments

Recent developments in IT technologies and changes in how IT infrastructures are being used are creating new challenges for systems management. The emergence of cloud computing, the convergence of telephony with data networks, and the ubiquity of smart hand-held devices have led to planetary scale IT infrastructures that serve diverse users and support a plethora of heterogeneous devices and applications. Increasingly, computing is moving to the Web as the platform for applications of all types, e.g., enterprise solutions, social networking, with growing expectations for reliability, availability and security of the applications and the infrastructure. Further, the presence of large numbers of computing elements such as sensors demands increasing autonomy, and hence a move from centralized to distributed systems management models.

This special issue will bring together new and innovative approaches to systems management research that are addressing the challenges and needs of the management of large IT infrastructures as encountered in cloud computing and networks of sensors. Topics of interest include (but are not limited to):

- *Managing scale*: distributed versus centralized management; monitoring and reporting strategies for large infrastructures; self-management (autonomous systems for scalability);
- *Sharing*: dealing with heterogeneity in data, models and APIs; security issues; usage accounting;
- *Manageability*: embedding management into systems;
- *Management of consumer computing*: policy considerations for consumers; privacy and information sharing;
- *Energy awareness*: management for green computing; energy-aware management.

### Submission Format and Guidelines

Prospective authors must prepare their papers according to the “Guide to Authors” available at [http://www.elsevier.com/wps/find/journaldescription.cws\\_home/505606/authorinstructions](http://www.elsevier.com/wps/find/journaldescription.cws_home/505606/authorinstructions) and submit to <http://ees.elsevier.com/comnet/>. **Authors must select “SI-Managing Emerging Computing Envnt” when they reach the “Article Type” step in the submission process. First time users must register themselves as Author.** Manuscripts should be clearly organized, written in good English and describe original research not published nor currently under review by other journals or conferences. Papers must be in single-column format, double-spaced, and use at least 11 pt fonts, and should not exceed 25 pages including references. Requests for further information may be addressed to the guest editors.

### Important Dates

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