



The Fourth IEEE/IFIP International Workshop on Management of the Future Internet (ManFI 2012) will be held in conjunction with IEEE/IFIP NOMS 2012 in Maui, Hawaii, USA, from April 16-20, 2012. The workshop is sponsored by the IEEE Communications Society (ComSoc) and supported by POSTECH ITCE, Ghent University-IBBT, NEC, and Ericsson LM. To ack the organizations that the workshop co-chairs come from. The workshop is endorsed by the Technical Committee on Network Operations and Management (CNOM).

It is widely agreed that, despite its many successes, the current Internet also has a set of systemic problems, ranging from an upcoming shortage of IP addresses to insufficient security. However, the lack of scalable and agile manageability is arguably more important, as without management, it is impossible to build systems that adapt the services and resources offered in a context-dependent manner.

In either case (clean slate vs. evolution vs. revolution) we must consider the manageability of the Future Internet from the beginning. Following the success of the three previous editions of this workshop, held in conjunction with IM 2009, NOMS 2010 and IM 2011, ManFI 2012 aims at providing an international forum for researchers in these and similar areas. ManFI 2012 will combine original full paper presentations with a motivating keynote, quick hot topic presentations and a panel discussion to thoroughly explore this challenging topic.

#### TOPICS OF INTEREST

Authors are invited to submit papers that fall into or are related to the topic areas listed below:

- *Architectural Issues*
  - Advantages and disadvantages of revolutionary, evolutionary, and other approaches to managing the Future Internet
  - Separation of data, control, and management planes
  - Design of architectural building blocks for managing the Future Internet
  - Advances in measurement, management, security, accounting, mobility, and other functions
  - Virtualization of resources and services
  - Dynamic composition of management and operational functionality
  - Mechanisms for managing interconnected computational infrastructures (e.g. elastic clouds, federated clouds) in the Future Internet
  - Implications of social network success on the Future Internet architecture
- *Design and Implementation Issues*
  - Abstractions for programmable network elements
  - Accommodating context-awareness in management
  - Applying situation awareness to network management
  - Federation between administrative domains and support of all constituencies
  - The role of models, ontologies, and other knowledge abstractions in the Future Internet
  - Uncertainty and probabilistic approaches to management of the Future Internet
  - Approaches for the organization of management data, data analytics and visualization
  - Experience reports from Future Internet experimental facilities set-up and results
- *Economic Issues*
  - Economic aspects driving the deployment of Future Internet management technology
  - Economic opportunities and challenges for management technology
  - Experience reports from management in test beds

#### PAPER SUBMISSION

Paper submissions must present original, research or experiences. Late-breaking advances and work-in-progress reports from ongoing research are also encouraged. Only original papers that have not been published or submitted for publication elsewhere can be submitted. Each submission must be written in English, accompanied by a 75 to 200 word abstract that clearly outlines the scope and contributions of the paper, and a list of up to 5 key words. There is a length limitation of 8 pages (including title, abstract, all figures, tables, and references) for regular conference papers, and 4 pages for short papers. Submissions must be in IEEE 2-column style. Papers exceeding these limits, multiple submissions, and self-plagiarized papers will be rejected without further review.

Authors should submit their papers in PDF, postscript, or Word formats via JEMS: (<https://submissoes.sbc.org.br/>).

#### PROCEEDINGS

Papers accepted for ManFI 2012 will be included in the conference proceedings, IEEE Xplore, and EI Index. The IEEE reserves the right to remove any paper from IEEE Xplore if the paper is not presented at the workshop.

Awards will be presented to the best paper and to the best student paper at the workshop. Furthermore, we plan to work with a leading journal, such as JNSM, TNSM and IJNM, to solicit extended versions of the best papers of ManFI 2012 to be submitted for review.

#### WORKSHOP CO-CHAIRS

- Prof. James Won-Ki Hong, POSTECH, Korea
- Prof. Filip De Turck, Ghent University – IBBT, Belgium
- Dr. Yoshiaki Kiriha, NEC, Japan
- Dr. Sven van der Meer, Ericsson LM, Ireland

#### IMPORTANT DATES

- Paper submission deadline: December 30, 2011
- Notification of acceptance: January 31, 2012
- Final version of papers due: February 15, 2012
- Workshop date: April 16, 2012

For more information, please contact one of the Workshop Co-Chairs at [tpcchairs@manfi2012.org](mailto:tpcchairs@manfi2012.org)