

## NETWORK AND SERVICE MANAGEMENT SERIES



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This is the tenth issue of the series on Network and Service Management, which is typically published twice a year. It was originally published in April and October, but since last year it is published in July and December. The series provides articles on the latest developments in this well established discipline, highlighting recent research achievements and providing insight into both theoretical and practical issues related to the evolution of the discipline from different perspectives. The series provides a forum for the publication of both academic and industrial research, addressing the state of the art, theory, and practice in network and service management.

An important recent development in the community was the change of chairmanship of the IEEE Committee on Network Operations and Management (CNOM; <http://cnom.tssg.org/>). Prof. James Won-Ki Hong of POSTECH, Korea, stepped down as chair of IEEE CNOM after serving for two terms of two years each. Under James' active leadership and in conjunction with the respective chair of IFIP WG 6.6, the flagship management conferences Integrated Management (IM) and Network Operations and Management Symposium (NOMS) became more valuable to the community, and previously self-standing events such as DSOM, MMNS, and IPOM were integrated into Manweek. After a call for nominations, the election for new chairs took place last June during IEEE/IFIP IM 2009, and the new CNOM chairs elected are the following: Chair, Dr. Marcus Brunner of NEC Europe, Germany; Vice Chair, Prof. George Pavlou of University College London, United Kingdom; Technical Program Chair, Prof. Lisandro Granville of the Federal University of Rio Grande, Brazil; and Secretary, Dr. Brendan Jennings of Waterford Institute of Technology, Ireland. You may note that Prof. Pavlou is also co-editor of this series. The new chairs plan to continue the organization of successful events such as IM and NOMS, as well as smaller events such as DSOM, MMNS, and others. Key to the success of these events has been the good collaboration with the IFIP TC6 sister organization WG 6.6. Under the leadership of the new chairs, this successful collaboration will continue.

Another important development for the community has been the completion of the integration work in the European EMANICS project on Management of the Internet and Complex Services, which occurred at the end of April 2010. EMANICS was a European Network of Excellence that brought together 13 research institutions active in management of the future Internet. It included work areas dealing with integration (long-term vision, virtual laboratory, and testbeds), dissemination (a new European conference, discussed later; electronic dissemination, training and technology transfer, open source initiatives), and joint research activities (scalable, economic, and autonomic management). For more information, visit the project site, <http://www.emanics.org/>. EMANICS also established a European conference on Autonomous Infrastructure Security & Management (AIMS). This conference continues after the end of EMANICS, and its fourth instance (AIMS 2010) took place at the University of Zurich, Switzerland, together with the 4th International Summer School in Network and Service Management on June 21–25, 2010; see <http://www.aims-conference.org/2010/>.

The key annual event in this area, which this year was the 12th IEEE/IFIP Network Operations and Management Symposium (NOMS 2010), was held April 19–23 in Osaka, Japan (<http://www.ieee-noms.org/2010/>). The second key annual event in this area used to be Manweek, which brought together conferences and workshops such as DSOM, MMNS, IPOM, and also MACE and NGNM, but from 2010 the Manweek conferences and workshops have been amalgamated in the new IEEE/IFIP Conference on Network & Service Management (CNSM 2010); the latter intends to become another flagship event, complementing IM and NOMS. This year's first CNSM took place October 25–29 in Niagara Falls, Canada, and was a very successful event.

We again experienced overwhelming interest for the tenth issue, receiving 22 submissions in total. For all the articles we got at least three independent reviews. We finally selected three articles, resulting in an acceptance rate of 13.6 percent, which is the smallest acceptance rate so far. It should be mentioned that the acceptance rate for

all the previous issues has ranged between 18 and 25 percent, making this series a highly competitive place to publish. We intend to maintain our rigorous review process in future issues, thus maintaining the high quality of the published articles.

The first article, “On Using Mashups for Composing Network Management Applications” by dos Santos, Ceron, Granville, and Tarouco, considers the use of Web 2.0 and mashups for composing network management applications, presenting applicability cases studies on BGB peering configuration and botnet detection.

The second article, “Toward an Architecture for the Automated Provision of Cloud Services” by Kirschnick, Alcaraz Calero, Wilcock, and Edwards, describes an architecture that enables the automated provisioning of services in a cloud, also presenting the issues behind the realization of such an extensible approach.

Finally, the third article, “Using the Model-Driven Architecture for Technology-Independent Scenario Configuration in Networking Testbeds” by Galan Marquez, Fernandez, Lopez de Vergara, and Casellas, presents a model-driven approach for the configuration of testbeds for future Internet and other networking experiments.

We hope that readers of this issue again find the articles informative, and we will endeavor to continue with similar issues in the future. We would finally like to thank all the authors who submitted articles to this series, and

the reviewers for their valuable feedback and comments on the articles.

### BIOGRAPHIES

**GEORGE PAVLOU** (g.pavlou@ee.ucl.ac.uk) is a professor of communication networks in the Department of Electronic and Electrical Engineering, University College London, United Kingdom. He received a Diploma in engineering from the National Technical University of Athens, Greece, and M.Sc. and Ph.D. degrees in computer science from University College London. His research interests focus on network management, networking, and service engineering, including aspects such as traffic engineering and quality of service management, policy-based systems, autonomic networking, content-centric networking, and communications middleware. He has been instrumental in a number of European and U.K. research projects, and has contributed to standardization activities in ISO, ITU-T, and IETF. He is the Vice Chair of IEEE CNOM, and has been the technical program co-chair of the Seventh IFIP/IEEE Integrated Management Symposium (IM 2001) and the Tenth IFIP/IEEE International Conference on Management of Multimedia and Mobile Networks and Services (MMNS 2008).

**AIKO PRAS** (a.pras@utwente.nl) is an associate professor in the Departments of Electrical Engineering and Computer Science at the University of Twente, the Netherlands, and a member of the Design and Analysis of Communication Systems Group. He received a Ph.D. degree from the same university for his thesis titled *Network Management Architectures*. His research interests include network management technologies, network monitoring, measurements, and security. He is chairing the IFIP Working Group 6.6, Management of Networks and Distributed Systems, and has been Research Leader in the European Network of Excellence on Management of the Internet and Complex Services (EMANICS). He is a Steering Committee member of the IFIP/IEEE NOMS, IM, CNSM, and AIMS symposia, and has been the technical program chair of several conferences, including the IFIP/IEEE Integrated Management Symposium 2005 (IM 2005), and IFIP/IEEE Management Week 2009 (ManWeek2009).

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