



# NOMS 2008

IEEE/IFIP Network Operations and Management Symposium  
Pervasive Management for Ubiquitous Networks and Services

## Distinguished Experts Panel Program

	Monday 7 April	Tuesday 8 April			Wednesday 9 April			Thursday 10 April			Friday 11 April
9:00 - 10:30	Tutorial & Workshops	Opening and Keynote			Keynotes			Technical Session 12	App. Session 3	Dissertation Digest 1	Tutorial & Workshops
10:30-11:00	Coffee break	Poster Session 1/Coffee break			Poster Session 3/Coffee break			Coffee break (10:40-11:00)			Coffee break
11:00-12:40	Tutorial & Workshops	Technical Session 1	Technical Session 2	Panel 1	Technical Session 7	Technical Session 8	Panel 3	Technical Session 13	Technical Session 14	Panel 5	Tutorial & Workshops
12:40-2:00	Lunch	Lunch			Lunch			Lunch			Lunch
2:00-3:40	Tutorial & Workshops	Technical Session 3	Technical Session 4	App. Session 1	Technical Session 9	Technical Session 10	App. Session 2	Technical Session 15	Technical Session 16	Dissertation Digest 2	Tutorial & Workshops
3:40 - 4:10	Coffee break	Poster Session 2/Coffee break			Poster Session 4/Coffee break			Coffee break			Coffee break
4:10 - 5:50	Tutorial & Workshops	Technical Session 5	Technical Session 6	Panel 2	Technical Session 11	Tools	Panel 4	Dist. Experts Panel & Closing Plenary			Tutorial & Workshops
					Tools demo (5:50 - 7:00)			Outrageous Opinion Session (5:50 - 7:00)			
	Welcome Reception (7:00 - 9:00)				Gala Dinner (7:00 - 10:00)						

### Ubiquitous Networks and Services: What Are the Real New Challenges Ahead?

In recent years we have been introduced to computing environments that integrate wireless and wired components, providing ubiquitous access to information services and applications in a seamless manner. The years to come are expected to be more exciting as we will witness a proliferation in the use of emerging wireless technologies (e.g., sensor networks, vehicular networks, etc.) and enhanced networked applications (e.g., biosensing networks for healthcare, terrestrial ecology observing systems, smart spaces, dynamic communities, etc.) Such increasingly pervasive environments will require new management strategies, which can cope with resource constraints, multi-federated operation, scalability, dependability, context awareness, security, mobility, to mention just a few challenges. The issue to be addressed in this Distinguished Experts Panel is whether we are reinventing the wheel or there are real new challenges ahead. If so, what are they, in which context, and how should we approach them? If not, how can existing management solutions be used/combined/modified/extended in order to address the management needs the emerging ubiquitous environments?

- Panelists:
- George Pavlou, University College London, UK (Chair)
  - Ian Akyildiz, Georgia Tech, USA
  - Bruno Albuquerque, Google, Brazil
  - Morris Sloman, Imperial College, UK
  - Rolf Stadler, KTH Royal Institute of Technology, Sweden

### **Prof. George Pavlou PhD, University College London, UK**

George Pavlou holds a Diploma (MEng equivalent) in Electrical & Mechanical Engineering from the National Technical University of Athens, Greece, and MSc and PhD degrees in Computer Science from the Department of Computer Science at University College London (UCL). Before re-joining University College London - this time as Professor of Communication Networks in the Department of Electronic & Electrical Engineering - in the beginning of 2008, he was for ten years Professor at Surrey leading research activities in networking and network/service management. In both Surrey and UCL he established and led highly successful research teams. His research interests focus on networking, network management and service engineering, including aspects such as network dimensioning, traffic engineering, quality of service management, ad hoc/mesh/sensor networks, policy-based systems, autonomic networking, multimedia service control and object-oriented communications middleware. Prof. Pavlou is on the editorial boards of the IEEE Transactions on Network and Service Management, the IEEE Communications, the IEEE Communication Surveys & Tutorials and the Springer Journal of Network and System Management. See <http://info.ee.surrey.ac.uk/Personal/G.Pavlou/> for more details and selected publications.



### **Prof. Ian Akyildiz PhD, Georgia Tech, USA**

Ian F. Akyildiz is the Ken Byers Distinguished Chair Professor and Director of Broadband and Wireless Networking Laboratory at School of Electrical and Computer Engineering at Georgia Institute of Technology since 20 years. Professor Akyildiz is Editor-in-Chief of Computer Networks (Elsevier) Journal, and Ad Hoc Networks (Elsevier) journal. Professor Akyildiz is an IEEE Fellow (1995), an ACM Fellow (1996). He received several IEEE and ACM Awards including IEEE Leonard Abraham Best paper award from IEEE JSAC in 1997, IEEE Best Tutorial paper award in 2003, IEEE Harry Goode Memorial Award (IEEE Computer Society), 2003 ACM SIGMOBILE award for his pioneering contributions in mobility and resource management in wireless networks, ACM Best Distinguished Lecturer Award in 1994, Georgia Tech Faculty Research Author Award in 2004 and School of ECE/Georgia Tech Distinguished Faculty Award in 2005. Dr. Akyildiz guest edited several special issues and organized many leading conferences such as IEEE INFOCOM 1998, IEEE ICC 2003, ACM MOBICOM 1996 and 2002 and many others. His current research interests are Wireless Sensor Networks, Next Generation Wireless Networks and Interplanetary Internet.



### **Bruno Albuquerque, Google, Brazil**

Bruno Albuquerque has worked with operating systems development for the last 10 years. His experience includes work as a kernel engineer for the ZETA operating system (proposed by yellowTAB GmbH) and collaboration with the development of the Haiku operating system, an open source platform. His main focus of interest are filesystems, including distributed filesystems. He also collaborated with the port of the BeOS MUSCLE library (<http://www.lcscanada.com/muscle/index.html>) used for developing dynamic distributed applications. Currently, he is a software engineer with Google.



**Prof. Morris Sloman PhD, Imperial College, UK**

Morris Sloman is Professor of Distributed Systems Management in the Department of Computing, Imperial College London. He is a Fellow of the Royal Academy of Engineering, Institute of Engineering and Technology and British Computer Society. His research interests include autonomic management of ubiquitous and distributed systems, adaptive security management, trust and security for pervasive systems. He chairs the UKCRC Ubiquitous Computing Grand Challenge steering committee. See <http://www.doc.ic.ac.uk/~mss> for more details and selected publications.



**Prof. Rolf Stadler PhD, KTH Royal Institute of Technology, Sweden**

Rolf Stadler is a Professor at the School of Electrical Engineering with the Royal Institute of Technology (KTH) in Stockholm, Sweden, since 2001. He received an M.Sc. degree in mathematics in 1984 and a Ph.D. in computer science in 1990 from the University of Zurich, Switzerland. In 1991 he was a post-doctoral researcher at the IBM Zurich Research Laboratory. 1992-1994 he was a visiting scholar at the Center for Telecommunications Research at Columbia University, which he joined in 1994 as a research scientist. 1998-1999 he was a visiting professor at ETH Zurich. Dr. Stadler has been co-chair for premier IEEE conferences in the network management, including DSOM'99, NOMS'02, and DSOM'07. He currently serves on the editorial board of IEEE Transactions on Network and Service Management (TNSM). His current research interests include scalable networks and systems, autonomous computing and self management. See <http://www.ee.kth.se/~stadler> for more details.

