Ioannis Stavrakakis

Title: Professor on Broadband Comm Networks (Design, Modeling, and Performance Evaluation)
Sector: Communications and Signal Processing
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Academic Qualifications:

- Ph.D. in Electrical Engineering (1988) Dept. of Electrical & Comp Engineering, University of Virginia, USA
- Diploma in Electrical Engineering (1983) Dept. of Electrical Engineering, Aristotelian University of Thessaloniki

Appointments:

- 2002 - today : Professor, Dept. of Informatics & Telecom., University of Athens
- 1999 – 2002 : Assoc. Professor, Dept. of Informatics & Telecom., University of Athens
- 1994 – 1999 : Assoc. Professor, Elecrical & Computer Engineering Dept., Northeastern University, USA.
- 1988 - 1994 : Assistant Professor, Electrical Engineering and Computer Science Dept., University of Vermont, USA

Teaching Activities: (current)

Undergraduate courses
- Communication Networks I

Postgraduate courses
- Advanced Networking Technologies
- Network Modeling and Performance Evaluation

Supervisor of 16 Ph.D. dissertations

Research Interests/Activities: (last 10 years)

- Network resource allocation algorithms & protocols, traffic management and performance evaluation
- Cooperative content dissemination and caching; P2P video streaming
- Mobile, ad hoc, autonomic, delay tolerant and future Internet networking.
- Content dissemination, discovery, placement and replication in unstructured P2P and social networks
- Head of the Advanced Networking Research (ANR) Group

Scientific Publications/Citations:

- 70 publications in refereed journals (23 IEEE transactions)
- 128 refereed conference publications (14 INFOCOM)
- Invited papers in several conferences
- More than 1300 citations.

Top five publications

- "Efficient Modeling of Merging and Splitting Processes in Large Networking Structures," I. Stavrakakis, IEEE Journal on selected Areas in Communications, Vol. 9, No.8, pp. 1336-1347, Oct. 1991
- "Achievable QoS in an Interference/Resource-Limited Shared Wireless Channel," J. Capone, I. Stavrakakis, IEEE Journal on Selected Areas in Communications, Vol. 17, No. 11, pp. 2041-2051, Nov. 1999
- "Making Link-State Routing Scale for Ad Hoc Networks," C. Santivanez, R. Ramanathan, I. Stavrakakis, MobiHoc 2001, Oct. 4-5, 2001, Long Beach, CA, USA
- "Distributed Selfish Replication" N. Laoutaris, O. Telelis, V. Zissimopoulos, I. Stavrakakis, IEEE Transaction on Parallel and Distributed Systems, vol. 17, no. 12, pp. 1401-1413, Dec., 2006
- "Distributed Server Migration for Scalable Internet Service Deployment," G. Smaragdakis, N. Laoutaris, K. Oikonomou, I. Stavrakakis, and A. Bestavros, IEEE/ACM Transactions on Networking, to appear

Distinctions:

- IEEE Fellow (since 2007)
- USA National Science Foundation Research Initiation Award (1990)
- Research Assistantship, Univ. of Virginia, 1984 – 1988
- National Greek Scholarship, 1979, 80, 81, 82; highest grade among the graduating class of 1983.

Other Activities:

- Member of editorial board: Elsevier Computer Communications Journal (2008-); IEEE/ACM Transactions on Networking (2001-2008); ACM/Springer Wireless Networks (WINET) Journal (1998-2009); Elsevier Computer Networks (1999-2006)
- 11 IST EU research projects (5 of them FET); 3 Greek research projects; 2 USA NSF, 1 ARPA, 1 BBN, 1 GTE, 1 Motorola projects; total funding about 4MEuros and over 1MUSD
- Member of the Board of Trustees and the Scientific Advisory Board of IMDEA Networks (National Research Institute of Spain), 2006- 10 and 2010 – present
- Member of the Scientific Advisory Board of GRNET (Greek Research Network);
- IFIP TC6.3 Chair (2003-08) and National representative of IFIP Greek Comp & Telecom Society to IFIP-TC6, 2009 -)
- Vice Chair, Autonomic Communication Forum (2004-06)
- Organizer, steering committee member, TPC chair of numerous conferences; over 100 TPC memberships
- Featured talks, invited papers and panelist in several conferences; invited participation to and presentations at several EU funding program shaping forums
- Member of 7 Ph.D. examination committees abroad