

Kostas Stamatiou

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Education

PhD, Electrical Engineering, University of California, San Diego, 2009

MSc, Electrical Engineering, University of California, San Diego, 2004

Diploma, Electrical and Computer Engineering, National Technical University of Athens, 2000

Experience

University of California, San Diego, 2002–2009

Graduate Student Researcher

Research, funded in part by Ericsson and in part by the Army Research Office. Physical layer and cross-layer performance analysis of interference-limited wireless systems. First part of thesis focused on the study of a frequency-hopped OFDMA cellular system. Performance of error correction coding evaluated for different hopping patterns in a time-frequency selective channel and in the presence of inter-cell interference. Second part of thesis focused on the performance analysis of random wireless networks. Studied the impact of frequency hopping, error correction coding and multiple-antenna techniques on the capacity of single-hop networks. Proposed a framework to characterize end-to-end delay as a function of physical and MAC-layer parameters in multi-hop networks.

National Technical University of Athens, 1995-2000

Dissertation involved the design of the IF and RF chains for a 13 GHz satellite transceiver. Designed and implemented in microstrip technology the PA, LNA amplifiers and IF, RF filters and measured their performance in the microwave lab.

Malta Information Technology and Training Services Ltd., Malta, Summer 1999

Intern

Worked on the implementation of a Voice-over-IP (VoIP) platform with Cisco routers. The goal of the project was to connect different Maltese embassies around the world.

Awards and Honors

- California Institute of Telecommunications and Information Technology Fellowship, 2002
- Fullbright Foundation Scholarship, 2002
- Greek State Scholarships Foundation (IKY) Student Award, 1996

Service

- Member of the "Valley of the Khans Project: a non-invasive search for the lost tomb of Genghis Khan": this multi-disciplinary project, sponsored by the National Geographic, involves historical research, remote-sensing archaeology and an in situ expedition to Mongolia, 2009
- Compiled the Solutions Manual of "Digital Communications", J. G. Proakis and M. Salehi, 5th ed., McGraw-Hill
- Technical reviewer for IEEE Journals and Conferences
- Military service in the Hellenic Navy, Frigate Hydra, 2000-2002

Publications (submitted/accepted/published)

- J₄: K. Stamatiou, J. G. Proakis and J. R. Zeidler "Channel diversity in random wireless networks" *IEEE Transactions on Wireless Communications*, June 2009. Submitted.
- J₃: K. Stamatiou, F. Rossetto, M. Haenggi, T. Javidi, J. Zeidler and M. Zorzi "Delay characterization of random multi-hop networks," *IEEE Transactions on Wireless Communications*, April 2009. Submitted.
- J₂: K. Stamatiou and J. G. Proakis "Assessing the impact of physical layer techniques on ad hoc network performance" *Elsevier Journal of Physical Communication*, March 2008.
- J₁: K. Stamatiou and J. G. Proakis "Performance analysis of a coherent FH-MA system based on Latin squares" *IEEE Transactions on Wireless Communications*, November 2007.
- C₆: K. Stamatiou, F. Rossetto, M. Haenggi, T. Javidi, J. Zeidler and M. Zorzi "A delay-minimizing routing strategy for wireless multi-hop networks," in *Proc. IEEE Workshop on Spatial Stochastic Models for Wireless Networks (SpaSWIN)*, Seoul, 2009.
- C₅: K. Stamatiou, J. G. Proakis and J. R. Zeidler "Evaluation of MIMO techniques in FH-MA ad hoc networks," in *Proc. IEEE GLOBECOM*, Washington D.C., November 2007.
- C₄: K. Stamatiou, J. G. Proakis and J. R. Zeidler "Information efficiency of ad hoc networks with FH-MIMO transceivers," in *Proc. IEEE ICC*, Glasgow, June 2007.
- C₃: K. Stamatiou, J. G. Proakis and J. R. Zeidler "Interference diversity in frequency-hopped systems with soft decoding," in *Proc. IEEE VTC*, Montreal, September 2006.
- C₂: K. Stamatiou and J. G. Proakis "A performance analysis of coded FH-OFDMA with pilot-assisted channel estimation," in *Proc. IEEE PIMRC*, Berlin, September 2005.
- C₁: K. Stamatiou, J. G. Proakis and J. R. Zeidler "A performance analysis of coded FH-OFDMA," in *Proc. IEEE WCNC*, New Orleans, March 2005.