

## Stochastic Networks Conference 2004

### Invited Talk Titles (February 25, 2004)

**Eitan Altman**, INRIA Sophia-Antipolis Research Unit, Eitan.Altman@sophia.inria.fr

*Applications of stochastic recursive equations and branching processes in queueing networks with stationary ergodic driving sequences*

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**Mor Armony**, New York University, marmony@stern.nyu.edu

*Managing large multi-skill call centers*

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**Dimitris Bertsimas**, Massachusetts Institute of Technology, dbertsim@mit.edu

*Robust optimization: A tractable approach to optimization under uncertainty*

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**Sem Borst**, CWI, Sem.Borst@cwi.nl

*Flow-level performance of wireless scheduling algorithms*

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**Jim Dai**, Georgia Institute of Technology, dai@isye.gatech.edu

*Join the shortest queue*

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**Paul Dupuis**, Brown University, dupuis@dam.brown.edu

*On the role of an Isaacs equation in importance sampling for stochastic networks*

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**Christian Gromoll**, EURANDOM, gromoll@eurandom.tue.nl

*Fluid limit of a network operating under a fair bandwidth sharing policy with general document size distributions*

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**Bruce Hajek**, University of Illinois, b-hajek@uiuc.edu

*Ion channels, or stochastic networks with charged customers*

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**Mor Harchol-Balter**, Carnegie Mellon University, harchol@cs.cmu.edu

*Exact analysis of FCFS systems with time-varying load*

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**J. Michael Harrison**, Stanford University, harrison\_michael@gsb.stanford.edu

*A method for staffing large call centers based on stochastic fluid models*

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**John Hasenbein**, University of Texas at Austin, jhas@mail.utexas.edu

*Instability in stochastic and fluid queueing networks*

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**Frank Kelly**, Cambridge University, f.p.kelly@statslab.cam.ac.uk

*Flow level models of Internet congestion control*

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**George Kesidis**, The Pennsylvania State University, kesidis@enr.psu.edu

*A distributed annealing algorithm for mobility and energy management of sensor  
MANETS*

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**P.R. Kumar**, University of Illinois at Urbana-Champaign, prkumar@uiuc.edu

*Wireless networks: From information transfer to sensing and control*

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**Thomas G. Kurtz**, University of Wisconsin – Madison, kurtz@math.wisc.edu

*Multiscale approximations for stochastic networks*

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**Zhen Liu**, IBM, zhenl@us.ibm.com

*Heavy Tails and Long Range Dependence*

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**Avi Mandelbaum**, Technion - Israel Institute of Technology, avim@tx.technion.ac.il

*Quality and efficiency driven queues*

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**Balaji Prabhakar**, Stanford University, balaji@stanford.edu

*Balls, bins and the assignment problem*

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**Leandros Tassiulas**, University of Maryland, leandros@isr.umd.edu

*Cross-layer design issues for quality of service provisioning in wireless networks*

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**Gustavo de Veciana**, The University of Texas at Austin, gustavo@ece.utexas.edu

*Applications of stochastic geometry to modeling wireless and sensor networks*

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**Ruth Williams**, University of California at San Diego, williams@stochastic.ucsd.edu

*Fluid and Brownian models of congestion at flow level*

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**Assaf Zeevi**, Columbia University, assaf@gsb.columbia.edu

*Dynamic routing in large call centers: Asymptotic analysis of an LP-based method*

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**Bert Zwart**, Eindhoven University of Technology, [zwart@win.tue.nl](mailto:zwart@win.tue.nl)

*Asymptotic analysis of processor sharing queues*

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