

# Mihalis G. Markakis

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## Academic Affiliations

<b>Department of Economics and Business, Universitat Pompeu Fabra</b> <i>Assistant Professor</i>	2013-present
<b>Barcelona School of Management</b> <i>Academic Coordinator of Business Analytics Specialization</i>	2013-present
<b>Barcelona Graduate School of Economics</b> <i>Affiliated Professor</i>	2013-present

## Education

<b>PhD Massachusetts Institute of Technology</b> <i>Department:</i> Electrical Engineering and Computer Science <i>Thesis:</i> Scheduling in Switched Queueing Networks with Heavy-Tailed Traffic	2008-2013
<b>MSc University of Southern California</b>	2006-2008
<b>BSc National Technical University of Athens</b>	2000-2005

## Research Interests

Modeling, analysis, and optimization of stochastic systems and their applications to Operations Research and Management Science, e.g., service operations, inventory management, pricing and revenue optimization.

## Graduate Teaching

Pricing and Revenue Optimization (MSc in Management, BSM)  
Operations Management (MSc in Management, BSM)  
Stochastic Models and Optimization (MSc in Data Science, BGSE)

## Academic Visits

INSEAD Business School, Singapore January-February 2016

## Journal Publications

- [J10] K. Bimpikis, M.G. Markakis, "Learning and Hierarchies in Service Systems," *under review*.
- [J9] M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Delay Analysis of the Max-Weight Policy under Heavy-Tailed Traffic via Fluid Approximations," *under review*.
- [J8] K. Bimpikis, M.G. Markakis, "Inventory Pooling under Heavy-Tailed Demand," forthcoming in *Management Science*.

- [J7] M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Delay Stability of Back-Pressure Policies in the presence of Heavy-Tailed Traffic," forthcoming in *IEEE/ACM Transactions on Networking*.
- [J6] K. Jagannathan, M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Throughput Optimal Scheduling over Time-Varying Channels in the presence of Heavy-Tailed Traffic," *IEEE Transactions on Information Theory*, 60(5), 2014.
- [J5] S.C. Borst, M.G. Markakis, I. Saniee, "Nonconcave Utility Maximization in Locally Coupled Systems, with Applications to Wireless and Wireline Networks," *IEEE/ACM Transactions on Networking*, 22(2), 2014.
- [J4] M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Max-Weight Scheduling in Queueing Networks with Heavy-Tailed Traffic," *IEEE/ACM Transactions on Networking*, 22(1), 2014.
- [J3] K. Jagannathan, M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Queue Length Asymptotics for Generalized Max-Weight Scheduling in the presence of Heavy-Tailed Traffic," *IEEE/ACM Transactions on Networking*, 20(4), 2012.
- [J2] M.G. Markakis, G.D. Mitsis, G.P. Papavassilopoulos, P.A. Ioannou, V.Z. Marmarelis, "A Switching Control Strategy for the Attenuation of Blood Glucose Disturbances," *Optimal Control, Applications and Methods*, 32(2), 2011.
- [J1] G.D. Mitsis, M.G. Markakis, V.Z. Marmarelis, "Nonlinear Modeling of the Dynamic Effects of Infused Insulin on Glucose: Comparison of Compartmental with Volterra Models," *IEEE Transactions on Biomedical Engineering*, 56(10), 2009.

## Book Chapters

- [B1] M.G. Markakis, G.D. Mitsis, G.P. Papavassilopoulos, V.Z. Marmarelis, "Nonparametric Modeling and Model-Based Control of the Insulin-Glucose System," in *New Developments in Biomedical Engineering*, Domenico Campolo (Ed.), InTech, 2010.

## Reviewer Service

IEEE/ACM Transactions on Networking, Operations Research, Management Science, Stochastic Systems, IEEE Transactions on Information Theory.

**(Last Updated: May 2016)**