Mihalis G. Markakis

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Academic Affiliations

IESE Business School

Associate Professor   2022-present

Assistant Professor   2018-2022

Universitat Pompeu Fabra

Assistant Professor   2013-2018

Education

PhD Massachusetts Institute of Technology   2008-2013

Department: Electrical Engineering and Computer Science

Thesis: Scheduling in switched queueing networks with heavy-tailed traffic

MSc University of Southern California   2006-2008

BSc National Technical University of Athens   2000-2005

Research Interests

Urban Mobility, Transportation, and Logistics

Pricing and Revenue Management

Global Supply Chains

Teaching

Operations Management (MBA, EMBA, Executive Education)

Operations Strategy (MBA)

Pricing and Revenue Management Analytics (MBA)

Stochastic Modeling and Optimization (PhD)

Preprints

[3] M.G. Markakis, V. Martínez de Albéniz, M. Serrano, "Bayesian demand learning and revenue management with limited capacity," working paper.

[2] M.G. Markakis, V. Martínez de Albéniz, X. Barriola, C. Sánchez, "Building and maintaining an assortment of durable goods," submitted for publication.

[1] G. Lugosi, M.G. Markakis, G. Neu, "On the hardness of learning from censored demand," submitted for publication.

Journal Publications

[13] M.G. Markakis, K. Talluri, D. Tikhonenko, "Sequential bidding for merging in algorithmic traffic," *Manufacturing & Service Operations Management*, 25(1), 2023.

[12] M.G. Markakis, K. Talluri, D. Tikhonenko, "Managing lane-changing of algorithm-assisted drivers," *Transportation Research C: Emerging Technologies*, 138, 2022.

[11] J. Chod, M.G. Markakis, N. Trichakis, "On the learning benefits of resource flexibility," *Management Science*, 67(10), 2021.

[10] K. Bimpikis, M.G. Markakis, "Learning and hierarchies in service systems," *Management Science*, 65(3), 2019.

[9] M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Delay analysis of the Max-Weight policy under heavy-tailed traffic via fluid approximations," *Mathematics of Operations Research*, 43(2), 2018.

[8] K. Bimpikis, M.G. Markakis, "Inventory pooling under heavy-tailed demand," *Management Science*, 62(6), 2016.

[7] M.G. Markakis, E. Modiano, J.N. Tsitsiklis, "Delay stability of Back-Pressure policies in the presence of heavy-tailed traffic," *IEEE/ACM Transactions on Networking*, 24(4), 2016.

[6] 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.

[5] 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.

[4] 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.

[3] 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.

[2] 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.

[1] 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.

Honors and Awards

Leonardo Fellowship, *BBVA Foundation* (Budget: €40k)	2021-2022
Ramón y Cajal Fellowship, *Spanish Ministry of Science and Innovation* (Budget: €208k)	2019-2023
Juan de la Cierva Fellowship, *Spanish Ministry of Economy and Competitiveness* (Budget: €63k)	2017-2018
COFUND Fellowship, *Marie Curie Actions, European Commission*	2013-2016

Research Grants

"Data-driven competitive advantage: the information edge in operations management," co-PI Victor Martínez de Albéniz, *Spanish Ministry of Science and Innovation*	2021-2024
"Information processing and resource allocation in online markets and networks," sole PI, *Spanish Ministry of Economy and Competitiveness*	2017-2019

"Smart-pricing solutions to relieve traffic congestion, exploiting new inter-vehicular communication," co-PI Kalyan Talluri, *Spanish Ministry of Economy and Competitiveness*
2014–2016

Service

Associate Editor: *Manufacturing & Service Operations Management* (2021-)

Referee: *Management Science, Manufacturing & Service Operations Management, Operations Research, Stochastic Systems*

Co-organizer: *1st Workshop on Information and Learning in Operations and Decision Sciences* (September 2019, Barcelona, Spain); *European Technology and Operations Management (Virtual) Seminar Series* (2020/21; 2021/22)

Committee Member: *INFORMS George Nicholson Student Paper Competition* (2021-22; 2022/23)

Conference Presentations and Campus Talks

Building and Maintaining an Assortment of Durable Goods

4th Workshop on Information and Learning, Fontainebleau, France, July 2023.

Bayesian Demand Learning and Revenue Management with Limited Capacity

Summer Workshop on Innovations in Management Science, Chalkidiki, Greece, July 2023.

London Business School, London, UK, June 2023.

UCL School of Management, London, UK, June 2023.

3rd Workshop on Information and Learning, Barcelona, Spain, June 2022.

Sequential Bidding for Merging in Algorithmic Traffic

2023 Revenue Management & Pricing Conference, London, UK, July 2023.

XV Young European Queueing Theorist Conference, Eindhoven, the Netherlands, November 2022.

2nd Workshop on Information and Learning, Online, July 2021.

On the Learning Benefits of Resource Flexibility

INFORMS Annual Meeting, Seattle, WA, USA, October 2019.

1st Workshop on Information and Learning, Barcelona, Spain, September 2019.

2nd European TOM Day, London, UK, June 2019.

HEC Business School, Paris, France, April 2019.

INFORMS Annual Meeting, Phoenix, AZ, USA, November 2018.

On the Hardness of Learning from Censored Demand

StochMod Conference, Lancaster, UK, June 2018.

INSEAD Business School, Fontainebleau, France, May 2018.

Booth Business School, University of Chicago, Chicago, IL, USA, March 2018.

Sloan School of Management, MIT, Cambridge, MA, USA, February 2018

National and Kapodistrian University of Athens, Athens, Greece, January 2017

University of Manchester, Manchester, UK, December 2016

INFORMS Annual Meeting, Nashville, TN, USA, November 2016.

Imperial College London, London, UK, November 2016.

Learning and Hierarchies in Service Systems

ESADE Business School, Barcelona, Spain, January 2018.

IESE Business School, Barcelona, Spain, December 2017.

INFORMS Annual Meeting, Nashville, TN, USA, November 2016.

London Business School, London, UK, November 2016.

StochMod Conference, Louvain-la-Neuve, Belgium, July 2016.

Inventory Pooling under Heavy-Tailed Demand

INSEAD Business School, Singapore, February 2016.

IESE Business School, Barcelona, Spain, March 2015.

INFORMS Annual Meeting, San Francisco, CA, USA, November 2014.

Max-Weight Scheduling in Networks with Heavy-Tailed Traffic

Young European Queueing Theorists Conference, Eindhoven, The Netherlands, November 2013.

Carnegie Mellon University, Pittsburgh, PA, USA, October 2013.

Universitat Pompeu Fabra, Barcelona, Spain, January 2013.

INFORMS Annual Meeting, Phoenix, AZ, USA, October 2012.

INFOCOM Conference, Orlando, FL, USA, March 2012.

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