The Hong Kong University of Science and Technology
Dept of Information Systems, Business Statistics and Operations Management
Dept of Industrial Engineering & Decision Analytics
Joint Seminar Announcement

On the Optimal Design of Bipartite Matching Systems
by
Prof. René CALDENTEY
University of Chicago
Booth School of Business

Date	:	**30 January 2026 (Friday)**
Time	:	**10:30 – 11:45 AM**
Venue	:	**Case Room 1001, 1/F, LSK Business Building**

Abstract:

In this talk, we explore the optimal design of matching topologies for a multi-class, multi-server queueing system in which each customer class has specific preferences over server types. We study system performance from the perspective of a central planner who must choose the set of feasible customer-server pairs, subject to fairness constraints for both customers and servers.

Bio:

René Caldentey is a Professor of Operations Management at the University of Chicago Booth School of Business. His primary research interests include stochastic modeling with applications to revenue and retail management, queueing theory, inventory management, and finance. He has been published in numerous journals including Advances in Applied Probability, Econometrica, Management Science, Mathematics of Operations Research, M&SOM, Operations Research and Queueing Systems. He serves on the editorial board of Management Science, M&SOM, Naval Research Logistics, Operations Research and Production and Operations Management.

Prior to joining Booth, Caldentey was a professor in the department of Information, Operations and Management Science at New York University Stern School of Business. Before joining NYU Stern in 2001, he worked for the Chilean Central Bank and taught at the University of Chile and The Sloan School of Management at Massachusetts Institute of Technology (MIT).

Professor Caldentey received his Master of Arts in civil industrial engineering from the University of Chile and his Doctor of Philosophy in operations management from MIT.