DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

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ECE/DNSC SEMINAR

Dr. Steven A. Gabriel

Professor
University of Maryland

One- and Two-Level Equilibrium Models in Energy

Friday, September 27, 2019, 11:00 am
Location: Funger 420

Abstract

In this talk, we present an overview of both one- and two-level equilibrium models, based on a mixed complementarity problem (MCP) formulation. The MCP constitutes a very broad class of problems and includes linear and convex nonlinear optimization, applications in game theory, micro-economics, traffic equilibria, robotics and many more areas. We illustrate both one- and two-level equilibrium problems with applications in energy markets.

Biography

Steven A. Gabriel, Ph.D., www.stevenagabriel.umd.edu
University of Maryland
-Full Professor, Dept. of Mechanical Engineering, enme.umd.edu
-Full Professor, Applied Math & Statistics, & Scientific Computation Program, amsc.umd.edu
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-Adjunct Professor, Dept. of Industrial Economics and Technology Management, Norwegian University of Science and Technology, Trondheim, Norway, ntnu.edu/iot, Energy Transition Programme, https://www.ntnu.edu/energytransition
-Research Professor, DIW (German Institute for Economic Research), Berlin

Joint seminar with the Department of Decision Sciences in the School of Business.
Hosted by Drs. Payman Dehghanian and Miguel Lejeune