

**March 3, 2017**

**ISOM Room 106**

**2:00-3:00 p.m.**

***(Pizza and other refreshments at 1:30 p.m.)***

Hosted By

UMassAmherst  
Student Chapter of **informs**



Professor  
Anna Nagurny

# ***Finding Common Ground When Experts Disagree: An Application to Publically Funded Energy Technology R&D Portfolios***

Robust Portfolio Decision Analysis is a new approach to support decision making, especially public decision making, when there is significant disagreement among scientists or other experts. This approach uses a new dominance concept to eliminate bad alternatives; and it identifies actions which are good regardless of the individual expert judgment. This approach encompasses many other robustness approaches in the literature, such as robust optimization. This method provides some insights when it is applied to the problem of choosing energy technology R&D portfolios.



Professor Erin Baker,  
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Erin Baker is a Professor of Industrial Engineering and Operations Research at University of Massachusetts, Amherst. She has a Ph.D. in Engineering-Economic Systems & Operations Research from the department of Management Science and Engineering at Stanford University, and a B.A. in Mathematics from U.C. Berkeley. She is the director of the NSF-funded *IGERT: Offshore wind energy engineering, environmental impacts, and policy* and of a related REU. Her research is in decision making under uncertainty applied to the field of energy and the environment, with a focus on publically-funded energy technology Research and Development portfolios in the face of climate change. She has received grants from the National Science Foundation, the U.S. E.P.A., NOAA, the U.S. Department of Energy, the Sloan Foundation and others. She is the Past President of the Energy, Natural Resources, and the Environment section of INFORMS, and an active member of the Decision Analysis Society and the Association of Environmental and Resource Economists. She is on the editorial boards of *Energy Economics* and *Decision Analysis*.