

Kash Barker

About

We are exploring solutions to problems related to the reliability, resilience, and economic impacts of networks. Applications range from infrastructure networks, including protection-interdiction-restoration models and the impacts of false claim attacks on our infrastructure, to supply chain networks, including resilient supplier selection decision-making and supplier survivability, to community networks, including pandemic economic impact analyses and climate-driven refugee resettlement optimization, and beyond. Fourteen Ph.D. graduates (11 in academic positions), 34 M.S. graduates, and a number of undergraduates have done amazing work in the lab, and we are always looking for talented students, new collaborators, and exciting problems. Make processes and systems BETTER with us in our diverse and inclusive lab community!

Research Domains

- Resilient networks, supply chains
- Interdependent systems
- Risk and decision analytics
- Systems engineering for societal good

ISE Impact Domains

- [Cyber-Physical-Social Systems](#)
- [Aerospace and Defense Systems](#)

Experience and Distinctions

- Fellow, Institute of Industrial and Systems Engineers
- Senior Member, IEEE
- Fellow, Fulbright Finland Foundation, Aalto University, Spring 2023
- Associate Editor, IISE Transactions, Naval Research Logistics, Military Operations Research
- Editorial Board, Risk Analysis, Scientific Reports, Environment Systems and Decisions
- Faculty Advisor, OU INFORMS student chapter