

INAUGURAL DISTINGUISHED INDUSTRY LECTURE

Operational Research & Analytics at Amazon

TIMOTHY JACOBS, PhD, PE
DIRECTOR OF RESEARCH SCIENCE
AMAZON

DATE: TUES, MAY 2

TIME: 11:30am - 12:20pm

PLACE: Husky Union Bldg 340



Bio:

Tim Jacobs is the Director of Research Science and Middle Mile Planning Research and Optimization Science for Amazon. At Amazon, Tim's teams oversee the research and development of mathematical optimization and machine learning applications and strategic initiatives for middle mile air and ground planning and logistics worldwide. Tim leads strategic development efforts including the modeling and analysis supporting the design and operation of Amazon's air and surface networks and innovative applications to manage an integrated air, trucking, rail, and maritime transport business. Previously, Tim held several executive positions at American Airlines, US Airways and Sabre. Tim received his doctorate in Operations Research and Engineering Systems from Purdue University. He continues to pursue new research initiatives, has authored more than 35 refereed publications, holds multiple U.S. patents within the airline and supply chain industry and is a licensed Professional Engineer.

Abstract:

Amazon's middle mile ground and air transportation network represents one of the fastest growing logistics areas within Amazon. The unprecedented scale of the delivery operation challenges Amazon to design, build and operate a robust transportation network that minimizes the overall operational cost while meeting customer promises and providing a positive experience for Amazon employees. This talk will provide an overview of the innovative and integrated approaches that enable Amazon to design and optimize the global middle mile transportation network at scale while efficiently aligning capacity and demand.

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