Health Applications Society
Online Seminar Series

Public Health Screening: Challenges and Opportunities for Operations Researchers

Professor of Operations Management

Ebru Bish

The University of Alabama
Culverhouse College of Business

February 25, 2022 (Friday)
1-2 pm Eastern Time
10-11 am Pacific Time

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Abstract: The COVID-19 pandemic continues to demonstrate the importance of public health screening. This talk will draw upon the body of research that Dr. Ebru Bish and her collaborators have conducted in a variety of screening contexts, ranging from newborn screening for genetic disorders to population-level infectious disease screening, including COVID-19. The talk will discuss the challenges and opportunities for operations researchers.

Bio: Dr. Bish's research focus is on stochastic modeling, optimization, and decision making under uncertainty, with applications to public health policy and health implementation science. Her research has been recognized through various awards, including the INFORMS Pierskalla Award for the Best Paper in Healthcare (winner in 2011, runner-up in 2017 and 2021, finalist in 2015), INFORMS JFIG Best Paper Award, and multiple IISE Transactions Best Applications Paper Awards. Her PhD students have received the INFORMS Bonder Scholarship, IISE Pritsker Doctoral Dissertation Award, and INFORMS Health Applications Society Student Paper Award, among others. Dr. Bish has published in leading operations research, biostatistics, and medical journals, and has graduated fourteen PhD students, many of whom hold academic positions. Dr. Bish has served as the 2019 President of the INFORMS Health Applications Society.