



TRACK: Analytical Modeling and Simulation

<https://iscram2022.enit.fr/>

INTRODUCTION TO THE TRACK

The aim of this track is to discuss the development and application of analytic problem-solving techniques, including simulation, optimization, and statistical analysis, which can help improve decision making in the context of crisis management. The development of such techniques is critical as part of an integrated and interdisciplinary approach that combines the various aspects of crisis management to support informed and effective decision making.

This track invites both theoretical and applied research papers discussing topics relevant to the concepts of modeling and simulation. Its overall purpose is to provide a dedicated venue for such research to be shared and discussed, and thus to highlight the breadth and depth of efforts to improve the effectiveness and efficiency of crisis management. In honor of this year's conference theme, submissions which explicitly consider the interdisciplinary nature of crisis management will be particularly welcome.

TRACK TOPICS

Possible topics of interest for this track include the following:

- Integrative approaches to modeling crisis management
- Modeling and analysis of disaster resilience
- Quantitative modeling and process optimization associated with mitigation, preparedness, response, or recovery
- Simulation modeling and analysis
- Stochastic optimization and modeling
- Data mining and information analysis

TRACK CHAIR AND CO-CHAIRS

	<p>Josey Chacko *, chacko@msmary.edu, Mount St Mary's University</p> <p>Josey Chacko is an associate professor of Supply Chain Management at Mount St. Mary's University. He has been one of the Track chairs for the Analytical Modeling and Simulation track since 2015. Dr. Chacko's research on disaster operations management has been published in various journals including Decision Support Systems. His work addresses disaster operations management and policy analysis with a focus on stakeholder-based, values-driven modeling and simulation.</p>
	<p>Andrew Arnette, arnette@uwyo.edu, University of Wyoming</p> <p>Andrew is an associate professor of Decision Science. He has been actively involved in the Analytical Modeling and Simulation track of ISCRAM as a reviewer. Dr. Arnette's research on disaster operations has been published in various journals including Natural Hazards Review and Production and Operations Management.</p>
	<p>Duygu Pamukcu, duygu@vt.edu, Virginia Tech</p> <p>Duygu Pamukcu is a PhD student of Business Information Technology, and a scholar in the Disaster Resilience and Risk Management Interdisciplinary Program at Virginia Tech. She received her B.S. and M.S. degrees in Industrial Engineering at Middle East Technical University. Her research interests are humanitarian operations modeling and simulation, non-profit supply chains, logistics and disaster risk management. She has been publishing at ISCRAM Conference Proceedings since 2019. She served as a session chair at Disaster and Disruption Management track of INFORMS Annual Meeting, 2018. She has been the Track co-chair of the Analytical Modeling and Simulation track at ISCRAM since 2020.</p>
	<p>Christopher Zobel, czobel@vt.edu, Virginia Tech</p> <p>Chris Zobel is the R.B. Pamplin Professor of Business Information Technology at Virginia Tech. He has been the Track chair of the Analytical Modeling and Simulation track at ISCRAM since 2011. He also served on the ISCRAM Board from 2013-2017 and as the conference chair for both ISCRAM 2020 and ISCRAM 2021. Dr. Zobel's research on disaster operations management modeling and simulation has been published in a number of different academic journals, including Decision Sciences, Decision Support Systems, Journal of Operations Management, Production & Operations Management, and the Journal of Humanitarian Logistics and Supply Chain Management.</p>

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