INSTITUTE OF INDUSTRIAL & SYSTEMS ENGINEERS

MODELING & SIMULATION DIVISION

A Message from the Division President:

Dear Modeling and Simulation Division Members,

I am honored and excited to serve as President of the IISE Modeling and Simulation Division for 2025–2026. It is truly a privilege to work with such a talented, innovative, and forward-thinking community of scholars, practitioners, and students who are advancing the state of the art in modeling and simulation.

Over the past year, our Division has showcased cutting-edge research and practice across many domains, including artificial intelligence and machine learning in simulation, digital twins, healthcare systems, transportation and logistics, supply chains and scheduling, manufacturing, and agent-based and systems modeling. Our sessions and town hall gatherings have underscored something important: modeling and simulation are not only technical tools, they are powerful frameworks for understanding complex systems and informing better decisions in a rapidly changing world.

Looking ahead, our vision for 2026 is centered on three priorities:

1. Inclusivity and community building. Our Division belongs to all of you. Whether you are a long-time member or just discovering M&S, you are welcome here. I want to ensure that students, early-career professionals, seasoned experts, and international members all find a place to connect and contribute. We will continue to encourage participation from members in both industry and academia, as well as from colleagues in government and nonprofit organizations who rely on modeling and simulation to address societal challenges.

In this newsletter you will find:

M&S Leadership, award winners, ways to stay connected, and more.

2. Transdisciplinary collaboration. The future of modeling and simulation is increasingly transdisciplinary. We will promote collaboration across application areas and with related communities in data science, operations research, human factors, and public policy, among others. My goal is for our Division to serve as a hub where ideas can move across domains and where methods, tools, and case studies are shared in ways that benefit everyone.

3. Visibility, impact, and professional development. We will work to highlight the real-world impact of M&S through success stories, case studies, and member spotlights. This will include opportunities to showcase your work in newsletters, webinars, and other communication channels. We will also encourage leadership and service opportunities for our members, including involvement in conference organization, paper reviewing, student mentoring, and committee work.

In the months ahead, you will see calls for abstracts and invitations to serve as reviewers, session organizers, and panelists for future IISE conferences and events. If you are interested in getting more involved, this is an excellent way to contribute. Serving as a reviewer or track volunteer is a meaningful service to our community and a great way to stay close to emerging research and applications.

Most importantly, **this is your Division**. I warmly welcome your ideas, your involvement, and your enthusiasm as we shape the coming year together. If you have suggestions for new activities, topics, collaborations, or ways to better serve our members, please reach out. Your voice matters, and your participation will help us build a vibrant and supportive community.
Let us work together to make 2026 a dynamic, inclusive, and impactful year for the IISE Modeling and Simulation Division. I am excited for what we will accomplish together and look forward to connecting with you throughout the year.

With gratitude and enthusiasm,

DAVID CLAUDIO
PRESIDENT, IISE M&S DIVISION, 2025-2026



M&S Division Board Members 2025-2026



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Spirit AeroSystems



Jenn Lobo
Newsletter

University of Virginia



MAHMOUD KHASAWNEH
Director-at-Large

Texas A&M International University

Recap of Award Winners from IISE Annual 2025

TEACHING AWARD

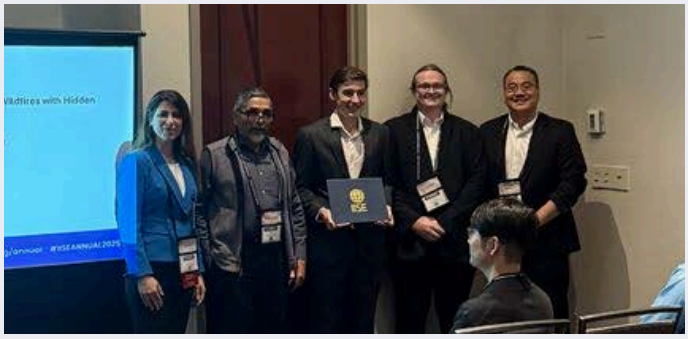
Congratulations to Dr. Chrysafis Vogiatzis from the University of Illinois at Urbana-Champaign & Dr. Eduardo Pérez from Texas State University





BEST STUDENT PAPER AWARD

Congratulations to Bates Bennett, Gavin Denton & Dr. Seunghan Lee on their paper "Modeling and Predicting Traffic Congestion During Wildfires with Hidden Markov Models"



BEST STUDENT PAPER AWARD





Congratulations to the winners: Shafiqul Islam & Dr. Bahram AsiaBanpour on their paper "Machine Learning Model Development for Optimizing Surface Temperature of TPMS Geometries in Atmospheric Water Generation Systems"

Congratulations to the runners up: Binoy Debnath, Zahra Pourfarash, Dr. Shivakumar Raman & Bhairavsingh Ghorpade on their paper "Integrating Reverse Engineering and Life Expectancy Analysis in the Lifecycle Management of a Mechanical Component"



Upcoming...

IISE Annual Conference & Expo 2026

MAY 16-19, 2026 | ARLINGTON, TX



Save the date! Join us for the Modeling and Simulation Town Hall, Panels, Technical Talks, and More.



Look out for M&S Division Award submission deadlines early in 2026

- Best Student Paper Competition
- Best Track Paper Competition
- Outstanding Practitioner Award
- Teaching Award

Please reach out to Tarun Gupta (tarun.gupta@wmich.edu) if your university or company would like to sponsor an award.

The M&S Division celebrated ISE Day in September

The board marked ISE Day together. We enjoyed seeing ISE Day reflections on LinkedIn!





Call to Action

Where is simulation heading?

WE'D LOVE YOUR INPUT!

Jean-Marc Frayret is leading M&S's Technical Content efforts. Please reach out to Jean-Marc if you would like to contribute to the conversation on new trends in simulation - jean-marc.frayret@polymtl.ca.

Join the M&S Division and stay connected

- Membership is free for all IISE members. Make sure your membership record is up to date: http://www.iise.org/Details.aspx?id=345
- Join our LinkedIn group to stay connected: https://www.linkedin.com/groups/12741693
- Follow our LinkedIn page to share content with the M&S professional network: https://www.linkedin.com/company/iise-modeling-and-simulation-division/