
SCS Keynote Speaker

**TITLE:**

Simulation Challenges in Assessing and Enabling the Physical Internet

AUTHOR:

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ABSTRACT: The Physical Internet aims to enable order-of-magnitude improvements in the efficiency and sustainability of the way physical objects are moved, deployed, realized, supplied, designed and used across the world. Challenging current paradigms, it opens a new era of smart hyper connected logistics, supply chain and transportation. Its potential needs to be rigorously assessed. Innovative technologies, solutions, services and business models must be designed, engineered and put into action. Roadmaps must be planned to evolve from vision to large-scale adoption and exploitation by industry stakeholders. After exposing how simulation plays a critical role in the Physical Internet journey, this talk addresses the conceptual, methodological and technological challenges in tackling the large-scale, wide-scope, fine-granularity and multi-stakeholder nature of the Physical Internet.

SHORT BIO:

Benoit Montreuil is Professor and Coca-Cola Material Handling & Distribution Chair in the Stewart School of Industrial & Systems Engineering at Georgia Tech where he is Director of the Physical Internet Center and Director of the Supply Chain & Logistics Institute.

Dr. Montreuil is leading the International Physical Internet Initiative, engaging academic, industry and government leaders worldwide into research and innovation projects on smart, hyper connected and sustainable logistics, supply chains, transportation, businesses and regions.

His main research interests generically lie in developing concepts, methodologies and technologies for creating, optimizing, transforming and enabling businesses, supply chains and value creation networks to thrive in a fast evolving hyper connected world. He stands at the crossroads of industrial and systems engineering; operations research; computer sciences; operations, logistics, supply chain, strategic management; and sustainability science. His research builds mostly on a synthesis of systems science & design theory, discrete & agent-based simulation modeling, as well as optimization modeling and mathematical programming.

Dr. Montreuil is a world-renowned scientist who has introduced in collaboration with students and colleagues an imposing set of paradigm-challenging leading edge contributions through nearly four decades of research, shared through 300 scientific publications, 260 scientific communications and numerous keynote speeches at international scientific and professional conferences. He has extensive advisory, entrepreneurial and collaborative research experience with industry and government.

Though his career, he has received numerous awards, recently including DC Velocity's Rainmaker of the Year, The Physical Internet Pioneer Award for his outstanding and inspiring vision, and the Pythagore

Award for the excellence of his science & engineering career from his alma mater U.Q.T.R. From 2000 to 2014, Dr. Montreuil has held the Canada Research Chair in Business Engineering. He is a founding member of the CIRRELT Interuniversity Research Centre on Enterprise Networks, Logistics and Transportation. He has also been president of the College-Industry Council on Material Handling Education and its Liaison to the Board of Governors of MHI, the North American industry association of material handling, logistics and supply chain solutions and technology providers.

Dr. Montreuil graduated in 1978 from the Université du Québec à Trois-Rivières (UQTR). He earned a master's and a Ph.D. in Industrial Engineering from Georgia Tech in 1980 and 1982 respectively. After serving on the industrial engineering faculty of UQTR and Purdue University, from 1988 to 2014, he was a Professor of operations and decisions systems in the faculty of Business Administration at Université Laval in Quebec City, Canada.