



CORS · SCRO

Canadian Operational Research Society
Société canadienne de recherche opérationnelle

Monday, Oct 28th, 2024

9:00 – 10:00 a.m. EST

CORS Micro-Event (online):

“Challenges, Opportunities, and Theories for the Circular Economy – Business, Digitization, and Beyond”

Presented by

Prof. Joseph Sarkis, Worcester Polytechnic Institute Business School, USA



Joseph Sarkis is a Management professor within the Business School at Worcester Polytechnic Institute (WPI). He earned his Ph.D. from the University of Buffalo. His scholarly interests include Ecological Sustainability, Technology, Operations and Supply Chain Management. Dr. Sarkis has authored hundreds of publications appearing in a wide variety of outlets. His editorial positions include many leading journals in Operations, Transportation, Supply Chain, and Sustainability Management. He is a former editor-in-chief of IEEE Engineering Management Review and Management Research Review. Joe has been recognized by the Web-of-Science as a Highly Cited Researcher for each year from 2015-2024. He is also an international program coordinator for the Greening of Industry Network along with the Springer-Nature Greening of Industry Networks book series co-editor. He co-chairs the Future Earth Circular Economy Working Group. Joe has been recognized as one of the most influential global scholars in general business and management—as well as the fields of supply chain management, corporate sustainability, operations research, and sustainable supply chains. He currently holds the Chaire d'excellence TEC-LOGd (Transport, Technology, Circular Economy and Sustainable Supply Chains) at the Université Polytechnique Hauts-de-France - UPHF. When you have a chance peruse his most recent edited two-volume major reference work on supply chain management for Palgrave-MacMillan. Currently, he is at Shanghai Jiaotong University as a visiting scholar for the Fall of 2024 and will be a Rachel Carson Visiting Scholar at Chatham University in Pittsburgh later in Fall of 2024

Abstract

The circular economy (CE) has garnered widespread attention in industrial, governmental, and academic circles. Concurrently, technological advancements, particularly in areas like Smart Manufacturing and Industry 4.0, have spurred interest in digitalization and integration across various disciplines. Among the most intriguing emerging digital technologies are those fostering multiple-stakeholder collaboration, such as Blockchain, Internet of Things (IoT), and Artificial Intelligence (AI). It is within the intersection of these innovations—CE as a socio-ecological initiative and multi-stakeholder technological advancements—that I intend to present. This presentation will explore findings concerning supply chains, sustainability, resilience, and competitive advantage within the CE-technology context. Furthermore, I will delineate potential pathways for further scholarly inquiry, emphasizing theoretical integration and linkages. I also look forward to a dialogue on the feasibility and practicality of the insights and future directions as well as potential OR-based research and applications.

Please **Register** at: <https://forms.gle/2nNXZXSAS1KykBaj7>

Questions? Email: president@cors.ca

Organized by: Anjali Awasthi, CORS President



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Monday, Oct 28th, 2024

10:00 – 11:00 a.m. EST

CORS Micro-Event (online):

Right-Sizing Innovation: Merging Policy, Technology, and Future Ready Infrastructure

Presented by

Matthew Davis and Greg Rodriguez, Stantec, USA



As Stantec's ITS Practice Lead, Matt works with our teams across North America to plan for and implement innovative Intelligent Transportation Solutions. He is working collaboratively across disciplines to deliver transformational infrastructure projects that leverage technology to improve the safety and operations of our transportation networks. His background covers the complete project lifecycle where his understanding of operations and maintenance informs planning efforts that in turn informs analysis, design, and integration of new systems. Matt understands that the ITS solutions deployed in the field ultimately need to be maintainable and need to be both useful and intuitive for the Operators in the TMC in order to meet the goals of our clients. He has led the delivery of dozens of ITS projects across the country, overcoming a variety of challenges through unique and targeted solutions.



Greg is a nationally recognized subject matter expert for policy, regulatory, and legal issues related to transportation and innovation. He uses his unique legal, regulatory, and policy experience to assist clients with the development of policies and operational frameworks focused on the safe and effective deployment of transportation technologies into communities across the country, including demand-responsive mobility, automated and connected vehicles, unmanned drones (both aerial and ground), and zero-emission vehicles. His services to clients include the completion of comprehensive policy and regulatory analysis to identify barriers to the deployment of technology-focused solutions and recommended frameworks focused on the incorporation of flexible and data driven governance structures that also consider infrastructure needs to support implementation. He is also a co-founder of the Mobility Podcast.

Abstract

Technology is all around us. Communities are not only interested, but also incentivized from an economic development perspective and through federal grant programs (in the U.S.) to consider the adoption of technologies that support safer, equitable, and multi-modal approaches to mobility. With implementation in focus, the speakers will discuss completed and ongoing work around the integration of autonomous vehicles into the transportation system. The discussion will include lessons learned from Stantec's policy and governance work on autonomous vehicles, in addition to our deployment experience supporting autonomous and connected vehicles from an Intelligent Transportation Systems perspective.

Please **Register** at: <https://forms.gle/2nNXZXSAS1KykBaj7>

Questions? Email: president@cors.ca

Organized by: Anjali Awasthi, CORS President