Industry Workshop on Supply Chain Analytics

August 7, 2013
Singapore Management University

Venue: School of Accountancy, Level 2
(Ngee Ann Kongsi Auditorium)

ONLINE REGISTRATION:

About the Conference and Workshop:
The Metaheuristics International Conference (MIC) is a forum for the exchange of analytics methods and tools, high-impact and novel applications, new research challenges, theoretical developments, implementation issues, and in-depth experimental studies in Metaheuristics.

This half-day Industry Workshop on Supply Chain Analytics is organized in conjunction with MIC 2013. It brings together academics, analytics executives and supply chain leaders offering unique insights into innovations that are driving success in organizations. We will discuss challenges and best practices for logistics and supply chain analytics, big data analytics, methods and tools, trends and visions in the use of analytics.

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<td>Registration</td>
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<td>Talks by Government and Academics</td>
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<td>Talks by Industry</td>
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<td>6:00 pm</td>
<td>Networking Banquet Dinner (in conjunction with MIC 2013) at The Legends Fort Canning Park, Lavender Ballroom</td>
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Supporting Organizations

The Chartered Institute of Logistics and Transportation, Singapore

Green Transformation Lab, a DHL-Singapore Management University Collaboration
Kelvin Wong
Executive Director (Logistics, Professional Services, International Organisations Program Office),
Singapore Economic Development Board

Title: Analytics – How it applies to the Future of Singapore's Logistics Industry
Abstract: Broadly, I will share about EDB’s perspectives on the opportunities and challenges for the logistics and supply chain industry in Singapore and how analytics as one of the competencies can be applied to help transform the sector. I will also share briefly in terms of investments and developments in analytics in the other sectors of Singapore economy.

Rosina Howe
Group Director, Innovation & InfoComm Technology,
Land Transport Authority, Singapore

Title: The Strategic Role of Big Data on Land Transport Planning
Abstract: Being a major transportation hub in the region, Singapore land transport system plays a critical role in keeping the economy and its people moving. The ability to mine data from cross-functional sources has been vitally important in providing LTA with a panoramic view of land transport challenges and validates policy assumptions. Planning for Land Transport Network (PLANET) was developed as an enabling platform to gain deeper insights of public transport in Singapore through advanced data analytics. Being one of the largest government data warehouses in Singapore, it has been instrumental in optimising the deployment of public transport resources in the recent Bus Service Enhancement Programme (BSEP) to reduce commuters’ waiting time and crowdedness on buses during peak periods.

Stefan Voss
Chair and Professor, Institute of Information Systems,
University of Hamburg, Germany

Title: Risk Management in Global Supply Chains - Hedging for the Big Bang?
Abstract: There is a growing body of literature addressing supply chain risks and risk management as a source of competitive advantage. First, we analyze the concepts and challenges in global supply chain risk management and, second, we focus on moving towards a research agenda which can be used to better understand risk management in case of major disasters. We consider the process of using a matheuristic approach for optimized planning decisions in the face of low frequency, high impact uncertainty.

N. Viswanadham
INAE Distinguished Professor in Computer Science and Automation
Indian Institute of Science, Bangalore, India

Title: Ecosystem Aware Global Supply Chain Management
Abstract: During the last two decades, several textbooks, research papers, best practice cases have been published on supply chain management. Globalization has created dispersed supply chains which are vulnerable and dependent on entities and factors that are exogenous to the supply chain. Credit squeeze after the financial crisis, environmental regulations, protectionist policies of governments, political unrest, economic instability, and natural disasters are few examples of how non-supply chain factors influence the way supply chains are managed. These exogenous factors are not just risk sources but can also be venues for innovations and growth.

Current theory does not provide a framework to deal with these issues. In this talk, we present the notion of supply chain ecosystem to holistically model all the factors that interact with the supply chain and influence the flow of goods, information, and finance. The ecosystem framework itemizes the entities under four categories: Supply chain, Institutions (Governments and Social Groups), Resources (Natural, Human, Financial, Industry inputs) and Delivery service infrastructure (Includes logistics & IT) and provides a framework for the redesign of the management techniques for global supply chains.

We use the framework to study four important subjects: performance, risk, innovation and governance and also to redesign global supply chain networks. The generality and the application potential of the SCE framework is quite high and can be used in areas such as Green supply chain design and Smart Villages and Cities.
Stephan Schablinski
Director, Sustainable Supply Chain Solutions, DHL, Singapore

Title: Sustainable Supply Chains End-to-End - Opportunities and Data Challenges
Abstract: Climate change and its consequences have a far-reaching effect on supply chains that find themselves under close scrutiny. For more and more consumers it is more important than ever to have transparent information about the ecological footprint of goods and services. Consumers and investors are becoming increasingly insistent on having proof that companies are meeting their ethical and ecological responsibilities, manage climate change related risks and disclose data about how efficiently they operate their global supply chains from a sustainability point of view. This effort goes well beyond the areas that are directly controlled by one company and includes all transport partners and logistics service providers that are involved along the supply chain. The highly fragmented nature of Supply Chains coupled with sustainability reporting standards that are still at the early stages of entering the industries presents a tremendous data challenges for the companies that are collecting, processing and analysing those information. The presentation will give more backgrounds on facts, figures and trends in the area of Supply Chain Sustainability and the related data challenges.

Andrew Lim Kwang Leng
Director of Corporate Innovation, Technology & Operational Development, Toll Global Logistics

Title: Data Analytics - @ Working Model
Abstract: "Locally developed RFID-enabled linen management system (LAMP) for the hospitality industry provides 'true' real time, automated and accurate data capture allowing for a more assured business analysis and help change a traditional owner owned-asset business model to a 'pay as you use' model. The learnings, experience and knowledge has open up more business opportunities for Toll."

Gary J Smith
Regional ICS Director Asia Pacific, TNT Express ICS, Singapore

Title: Enhancing Customer Outcomes: Intelligent Usage of Supply Chain Data
Abstract: The complexity of managing supply chains has increased and become an essential element to which organizations need to pay extra attention to due to the increased expectations of customers (and customers’ customers) and our increasingly globalised demand and supply networks. As a result, the timeliness and accuracy of data and information is not an option but a necessity. Intelligent and customer outcome focused usage of this data will enhance customer outcomes.

Paul Bradley
Chairman and CEO, Caprica International, Singapore

Title: Dynamic Value Networks and “Virtually Orchestrated Supply Chains”
Abstract: Supply Chain Management is moving towards a "Dynamic Value Network" model where technology solutions need to rapidly transform. This radically evolving business model requires more advanced analytical tools and capabilities to re-design complex supply chains, while simultaneously determining new synchronization methodologies. This presentation will cover the following topics: Designing the "Floating Warehouse", Creating "Regional SCM Hubbing" through Singapore, "Virtual Manufacturing", "Virtual Warehouses", "Knowledge Network Orchestration" and the need to develop an effective symbiosis between human creativity and new technology platforms to converge fixed and virtual assets.
Workshop Chair:

Hoong Chuin Lau
Associate Professor of Information Systems
Singapore Management University
Email Contact: hclau@smu.edu.sg