May 22, 2018
8:00am - 6:00pm
Cambridge, MA

Research Fest 2018

MIT | Supply Chain
MANAGEMENT

Schedule

8:00 - 8:30 REGISTRATION & BREAKFAST (E40-356 & 366, 1 Amherst St., Cambridge, MA)

8:30 - 8:45 WELCOMING REMARKS (E40-356 & 366, 1 Amherst St., Cambridge, MA)

9:00 - 9:30

Dynamic Customer Service Levels: Evolving Safety Stock Requirements for Changing Business Needs **(Room E40-356)**; by Daniel Covert & Joaquin Ortiz. Advised by Tugba Efendigil

Palm Oil Traceability: Blockchain Meets Supply Chain **(Room E40-366)**; by Toufic Hirbli. Advised by Simon Johnson & Alexis Bateman.

Lot Traceability of a Break-Through Food Science Technology **(Room E40-210)**; by Russ Miller & Hilary Taylor. Advised by Bruce Arntzen.

Reducing CO2 Emissions in Transportation Using Machine Learning **(Room E51-372)**; by Ade Barkah & Patrick Robert. Advised by Josue Velazquez & Karla Gamez.

Uberization of Freight Procurement **(Room E51-376)**; by Ignacio Helguera & Mita Hendra Mukti. Advised by Christopher Mejia.

9:40 - 10:10

Maximizing Pick Productivity through Segmenting Product Groupings **(Room E40-356)**; by Anushka Budhiraj & Jeff Du. Advised by Bruce Arntzen.

Network Design for Mid-day Meal Program **(Room E40-366)**; by Priyanka Singh & Asfaruzzama Noor. Advised by Tim Russell.

Estimating Customer Preferences in Omnichannel Distribution **(Room E40-210)**; by Antoine Lahad Abinader & Ryan Alberts. Advised by Eva Ponce.

Consumer Demand for Green Logistics **(Room E51-371)**; by Andrew Fu & Mina Saito. Advised by Josue Velazquez & Karla Gamez.

Emerging Technologies in Ocean Freights **(Room E51-376)**; by Harshvardhan. Advised by Chris Caplice.

10:20 - 10:50

Modeling Regulatory Impacts on Supply Chain **(Room E40-356)**; by Melissa Medina. Advised by Bruce Arntzen.

Toward Effective Common Operating Policies in Humanitarian Supply Operations **(Room E40-366)**; by Brent Turner. Advised by Jarrod Goentzel.

Network Design Model For Multiple Fuel Distribution **(Room E40-210)**; by Bonaventure Muhongo & Fabio Castro. Advised by Josue Velazquez.

Peak Demand Planning for Reverse Logistics **(Room E51-372)**; by Anshu Thakur & Ian Teoh. Advised by Eva Ponce.

Increasing Delivery Efficiency And Flexibility **(Room E51-376)**; by Juan Carlos Coloma & Michel Vasconcelos. Advised by Chris Caplice.

11:00 - 11:30

Internal Inventory Management, Analysis and Improvement for a CPG Company **(Room E40-356)**; by Jorge Moreno & Konstantinos Lalos. Advised by Alexis Bateman.

Effects and Mitigation of Natural Hazards in Retail Networks **(Room E40-366)**; by Jorge Garcia. Advised by Jarrod Goentzel.

Supply Chain Network Optimization For International Commodity Trading **(Room E40-210)**; by German Tisera & Sebastian Abt. Advised by Josue Velazquez.

Lean Services: Creating Just in Time Services Through Customer Input **(Room E51-372)**; by Joel Semel & Michael Chee-Awai. Advised by Eva Ponce.

Blockchain in Ocean Freight **(Room E51-376)**; by Puneet Jain. Advised by Chris Caplice.

11:40 - 12:10

Key Supply Chain Integration Factors For Success Of Medical Device Start-Ups **(Room E40-356)**; by Sanjay Gupta. Advised by Alexis Bateman.

Using Milp To Route Inbound Calls In Climate Catastrophe Events **(Room E40-366)**; by Jin Li & Viviana Nieto. Advised by Josue Velazquez & Cansu Tayaksi.

Creating Additional Value in the Supply Chain Through Dry Ports **(Room E40-210)**; by Hoi Ling (Queenie) Chan & Mamoun Toukan. Advised by Christopher Mejia.

Customer-oriented Last Mile Delivery **(Room E51-372)**; by Eugene Sohn. Advised by Mohammad Moshref-Javadi.

Refrigerated TL Rate Forecasting **(Room E51-376)**; by Xiwen Bai. Advised by Chris Caplice.

12:10 - 1:10 LUNCH (E40-356 & 366, 1 Amherst St., Cambridge, MA)

1:10 - 1:40

Optimization of Inventory for Yarn Manufacturer **(Room E40-356)**; by Jeffrey Mak. Advised by Christopher Mejia & Nima Kazemi.
Improving Productivity and Survival of Small Firms in Latin American **(Room E40-366)**; by Nina Arizaleta & Xiaohan Zhu.
Advised by Josue Velazquez & Cansu Tayaksi.
The Effect of Endogenous Demand on Supply Chain Design **(Room E40-210)**; by Alan Li & Ben Lillijord. Advised by Jarrod Goentzel.
Using Artificial Intelligence to Create a Self-Healing Supply Chain **(Room E51-372)**; by Darryl Yau. Advised by Chris Caplice.
Risk Management as U.S. Natural Gas Transportation Explodes **(Room E51-376)**; by Lauren Sittler. Advised by Alexis Bateman.

1:50 - 2:20

Using K-Means clustering to Manage Inventory in Defense **(Room E40-356)**; by Danaka Porter. Advised by Sergio Caballero.
The $100 dollar question: Finding quick wins for micro companies **(Room E40-366)**; by Rafaela Pereira & Ramon Paulino.
Advised by Josue Velazquez & Cansu Tayaksi.
International Production Planning **(Room E40-210)**; by Ross Pieper & David Cheung. Advised by Jarrod Goentzel.
Forecasting Footwear Demand Using Machine Learning **(Room E51-372)**; by Majd Kharfan & Vicky Chan. Advised by Tugba Efendigil.
Leader Attributes of High-Performing LTL Shipments **(Room E51-376)**; by Bin Yin & Chris Rallis. Advised by Chris Caplice.

2:30 - 3:00

Segmented Impact of Manufacturer Service on Retailer Shelf Availability **(Room E40-356)**; by Hanin Aboutaleb & Tony Li.
Advised by Jim Rice.
The Hidden Impact Of Micro Retailers' Survival Rate On The Logistic Costs Of Consumer Packaged Goods Companies
(Room E40-366); by Ximena Castanon. Advised by Josue Velazquez & Christopher Mejia.
Construction Sourcing Optimization **(Room E40-210)**; by Salim Al Shaqsi. Advised by Tugba Efendigil.
Effect Of Override Size On Forecast Value Add **(Room E51-372)**; by Jeff Baker. Advised by Sergio Caballero & Nima Kazemi.
Coyote Logistics - Predicting Carrier Load Cancellations in the Trucking Industry **(Room E51-376)**; by Nicolas Favier & Ali Al-Habib.
Advised by Christopher Mejia.

3:10 - 3:40

Johnson & Johnson - Vision Care Advanced Demand Sensing Project **(Room E40-356)**; by Evan Humphrey & Federico Laino.
Advised by Inma Borrella.
Optimization and Resilience of LNG Supply Chain Network: Case Study of Nigeria **(Room E40-366)**;
by Adegoke Falaiye & Fu Song Chiam. Advised by Jim Rice.
Driving Efficiency via Inbound Logistics **(Room E40-210)**; by Deepika Sharma & Geri Felicio. Advised by Sergio Caballero.
Leveraging Supply Chain Analytics to Support Proactive, Cross-Functional Decision-Making **(Room E51-372)**;
by Deepti Kidambi & Minhaaj Khan. Advised by Tugba Efendigil.
Drones for Last Mile Delivery **(Room E51-376)**; by Justin Yoon. Advised by Matthias Winkenbach.

3:50 - 4:20

MSC Industrial Supply - Additive Manufacturing's Impact on Traditional Industrial Distributors **(Room E40-210)**;
by Aline Ingberman & Sittipat Assavaniwej. Advised by Jim Rice.
Optimal Operating Strategies for a Segmented Supply Chain **(Room E51-372)**; by Bernadette Orende. Advised by Sergio Caballero.
Learning from Route Plan Deviations in Last-Mile Delivery **(Room E51-376)**; by William Phillips & Yiyao Li.
Advised by Matthias Winkenbach.

4:30 - 5:00

Quantifying the Impact of Digitalization on Supply Chain Management (SCM) in a Power Generation Company
(Room E40-210); by Paulina Gisbrecht. Advised by Matthias Winkenbach & Milena Janjevic.
Optimal Supply Chain Operating Strategies by Replenishment Stream **(Room E51-372)**; by Mary Kate Gorman.
Advised by Sergio Caballero.
Demand Forecasting of Bike-sharing Service in Beijing **(Room E51-376)**; by Cheng Fu & Leonhard Fricke. Advised by Inma Borrella.

5:00 - 6:30   RECEPTION (E40-356 & 366, 1 Amherst St., Cambridge, MA)

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