2022 INUF Conference Detailed Agenda

1. Local/last mile pickup and delivery
2. Modes and nodes
3. Urban modeling and planning
4. Technology and automation
5. Changing consumption, production, and spatial organization
6. Best practices

Wednesday, May 25, 2022

7:30-8:30 AM   Continental Breakfast and Check In
Regency Foyer

8:30-10:00 AM Opening Plenary Session
Regency ABC

Host: Genevieve Giuliano, Director, METRANS

Welcome Speakers:

Jeet Joshee, Associate Vice President and Dean, Office of International Education and Global Engagement, CSULB
Marlon Boarnet, Professor and Chair, Department of Urban Planning and Spatial Analysis, USC

Introduction: Genevieve Giuliano, Director, METRANS Transportation Consortium

Keynote title: Looking Ahead: The Value of Place in Supply Chain

Keynote Speaker: Melinda McLaughlin, Senior Vice President, Global Head of Research, Prologis

10:00-10:30 AM  Break
Regency Foyer

10:30 AM - Noon  Concurrent Sessions
Beacon A  Special Session: Curbside freight deliveries: National approaches and typologies of curbside analysis and curb management  
Moderator: DJ Mason, US Department of Transportation, Volpe Center

Panelists:
Ken Hustling, City of Los Angeles  
Evan Iacobucci, University of North Carolina at Chapel Hill  
Ariana Vito, City of Santa Monica

Regency D  Track 5-3 Spatial Organization
Session Moderator: Carla Tejada, City College of New York

“Proximity logistics”: Characterizing the development of logistics facilities in dense mixed-use urban areas around the world
Presenter: Heleen Buldeo Rai, Univ Gustave Eiffel, Logistics City Chair
Co-author: Laetitia Dablanc, Univ Gustave Eiffel; Sanggyun Kang, Chung-Ang University; Takanori Sakai, Tokyo University of Marine Science and Technology; Carla Tejada, City College of New York; Quan Yuan, Tongji University; Alison Conway, City College of New York

An analysis of the evolution of warehouses location from 2012 to 2019 in major U.S. Consolidated Statistical Areas (CSA): New insights of warehousing spatial patterns
Presenter: Matthieu Schorung, Gustave Eiffel University
Co-authors: Laetitia Dablanc, Univ Gustave Eiffel; Thibault Lecourt, Avignon Universite

Regency E  Track 4-2 Alternative Fuels
Session Moderator: Gina Yeonkyeong Park, Cornell University

Life cycle analysis of heavy-duty trucks: An environmental impact study comparing alternative fuels/drivetrains
Presenter: Sue Dexter, University of Southern California

Economic impacts of electrification of cargo handling equipment at POLA/POLB
Presenter: Dan Wei, University of Southern California
Co-author: Genevieve Giuliani, University of Southern California

Modeling a biofuel supply chain between urban centers
Presenter: Seckin Ozkul, University of South Florida
Co-author: Rob Hooker, University of South Florida

Charging infrastructure considerations of electric trucks
Presenter: Jeffrey Short, American Transportation Research Institute
Regency F  Track 1-1 Curb Management
Session Moderator: Carlos Otero, University of California, Davis

Exploring the potential of urban delivery microhubs and cargo bike deliveries
Presenter: Anne Goodchild, University of Washington
Co-author: Seyma Gunes, University of Washington

Investigation of private loading bay operations in Seattle's Central Business District
Presenter: Griffin Donnelly, University of Washington
Co-author: Anne Goodchild, University of Washington

Roadblocks to Sustainable Urban Freight
Presenter: Thomas Maxner, University of Washington
Co-authors: Giacomo Dalla Chiara and Anne Goodchild, University of Washington

Can real-time parking occupancy information improve urban delivery efficiency?
Presenter: Giacomo Dalla Chiara, University of Washington
Co-authors: Klaas Fiete Krutein and Anne Goodchild, University of Washington

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Noon-1:30 PM  Lunch
Regency ABC

Keynote Title: From Invisible to Essential: Covering Freight Media Panel
Moderator: Tyler Reeb, Director of Research and Workforce Development, CITT, CSULB

Panelists:
Samantha Masunaga, Staff Writer, Los Angeles Times
Sarah McGregor, L.A. Bureau Chief and Editor, Bloomberg News
Dan Ronan, Associate News Editor Print and Media, Transport Topics

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1:30-3:00 PM  Concurrent Sessions

Beacon A  Track 1-2 Curb Management 2
Session Moderator: Giacomo Dalla Chiara, University of Washington

On the understanding of the real-life performance of autonomous food delivery robots
Presenter: Carlos Otero, University of California Davis
Co-authors: Miguel Jaller, University of California Davis
Planning for local delivery using sidewalk robots: Comparing optimized mothership vans methods
Presenter: Jacob Lamb, University of Calgary
Co-authors: S. C. Wirasinghe and Nigel Waters, University of Calgary

Gamification of Urban Freight
Presenters: Tom O’Brien, Biju Kewalram, Anh Vu and Jared Paz, California State University, Long Beach

Improving delivery efficiency and understanding user behavior through common carrier lockers
Presenter: Andisheh Ranjbari, University of Washington
Co-authors: Caleb Diehl, Giacomo Dalla Chiara, and Anne Goodchild, University of Washington

Testing the association between development patterns and truck crashes: A case study in Dallas-Fort Worth, TX
Presenter: Sanggyun Kang, Chung-Ang University

Characterization of the geographic patterns of fuel consumption and emissions of freight vehicles in the Albany-New York City Corridor
Presenter: Sofia Perez-Guzman, Rensselaer Polytechnic Institute
Co-authors: José Holguín-Veras, Julia Amaral, and Carlos Rivera-Gonzalez, Rensselaer Polytechnic Institute

Analysis and identification of urban commercial traffic patterns: A clustering approach for the Seattle’s urban area
Presenter: Anne Goodchild, University of Washington
Co-author: Gabriela Giron, University of Washington

Off-hours delivery: Simulated systemwide results for the Chicago region
Presenter: Olcay Sahin, Argonne National Laboratory
Co-author: Monique Stinson, Argonne National Laboratory

Dynamic last-mile delivery with crowd-shipping
Presenter: Matthew Roorda, University of Toronto
Co-authors: Kianoush Mousavi and Merve Bodur, University of Toronto; Mucahit Cevik, Ryerson University

Applying machine learning to model freight vehicle type choice
Presenter: Usman Ahmed, University of Toronto
Co-author: Matthew Roorda, University of Toronto

Rewards program to electrify short-haul drayage trucks
Presenter: Miguel Jaller, University of California Davis
Co-author: Emil Youssefzadeh, WattEV, Inc.

Regency F  Track 1-3 Routing and Optimization
Session Moderator: Dingtong Yang, University of California, Irvine

Improving commercial vehicle routing with parking information
Presenter: Klaas Fiete Krutein, University of Washington
Co-authors: Giacomo Dalla Chiara and Anne Goodchild, University of Washington

Time-dependent pickup and delivery problems with stochastic travel times and hard time windows via branch-price-and-cut
Presenter: Petros Ioannou, University of Southern California
Co-authors: Zheyu Wang and Maged Dessouky, University of Southern California

Shared logistics assets for new mobility-assist two-echelon e-grocery delivery network
Presenter: Evangelos Kaisar, Florida Atlantic University
Co-author: Dan Liu, Freight Mobility Research Institute (FMRI) and Florida Atlantic University

Co-simulation based optimization for container pickup and delivery
Presenter: Maged Dessouky, University of Southern California
Co-author: Siyuan Yao, University of Southern California

3:00-3:30 PM  Break
Regency Foyer

3:30-5:00 PM  Concurrent Sessions

Beacon A  Track 3-1 Issues in Trucking
Session Moderator: Matthew Roorda, University of Toronto
Distributed load balancing freight routing with a co-simulation optimization method
Presenter: Pengfei Chen, University of Southern California
Co-authors: Petros Ioannou and Maged Dessouky, University of Southern California

Modelling freight vehicle type and shipment size choice
Presenter: Usman Ahmed, University of Toronto
Co-author: Matthew Roorda, University of Toronto

Truck routing optimization for large-scale transportation networks
Presenter: Hyun Seop Uhm, Argonne National Laboratory
Co-authors: Taner Cokyasar, Monique Stinson, Jeffrey Larson, Olcay Sahin, Omer Verbas, and Vincent Freyermuth, Argonne National Laboratory

Inter-regional truck route choice modeling with revealed and state preference approaches
Presenter: Kevin Gingerich, York University
Co-authors: Yashar Zarrin Zadeh and Ubaid Ali, York University

Regency F Track 3-3 International and Case Studies
Session Moderator: Elyakim BenHakoun

Modelling impacts of off-peak-hour delivery in the greater Toronto and Hamilton area
Presenter: Tufayel Chowdhury, University of Toronto
Co-authors: James Vaughan, Marc Saleh, Kianoush Mousavi, Marianne Hatzopoulou, and Matthew Roorda, University of Toronto

The role of logistics performance index for developing port’s hinterland: A case study for Bangladesh
Presenter: Razon Chandra Saha, Head of Research and Innovation, Saif Powertec Limited, Bangladesh

5:00–7:00 PM Reception
Poolside
Thursday, May 26, 2022

7:30-8:30 AM  Continental Breakfast and Check In
Regency Foyer

8:30-10:00 AM  Plenary Session
Regency ABC

Keynote title: California Leading the Way
Welcome Speaker: Congressmember Alan Lowenthal, 47th Congressional District of California
Moderator: Tom O’Brien, Executive Director, CITT, CSULB

Panelists:
Fran Inman, Senior Vice President, Majestic Realty Co.
Matt Petersen, President & CEO, Los Angeles Cleantech Incubator (LACI)
Matt Schrap, CEO, Harbor Trucking Association

10:00-10:30 AM  Break
Regency Foyer

10:30 AM - Noon  Concurrent Sessions

Beacon A  Special Session: Optimizing Truck Movements in the Southern California Port Region
Moderator: Mark Jensen, Transpo Group

Panelists:
Ed Alegre, LA Metro
Sal Manzo, InfoMagnus
Krista Jeannotte, Cambridge Systematics
Christopher Chase, Port of Los Angeles
Theresa Dau-Ngo, Port of Long Beach

Regency E  Track 3-4 Assessing Impact
Session Moderator: DJ Mason, US Department of Transportation
Time-dependent patterns in freight trip generation
Presenter: Sofia Perez-Guzman, Rensselaer Polytechnic Institute
Co-authors: José Holguín-Veras and Diana Ramirez-Rios, VREF Center of Excellence for Sustainable Urban Freight Systems Rensselaer Polytechnic Institute

Data-driven time-dependent freight volume estimation at a granular spatial and temporal resolution
Presenter: Chrysovalantis Anastasiou, University of Southern California
Co-authors: Luciano Nocera and Cyrus Shahabi, University of Southern California

Freight eco-routing – carrier’s trade-offs and system-wide impacts
Presenter: Anmol Pahwa, University of California Davis
Co-author: Miguel Jaller, University of California Davis

Reducing impacts of heavy-duty trucks on communities of color
Presenter: Genevieve Giuliano, University of Southern California

Regency F  Track 1-4 Improving the Last Mile
Session Moderator: Klaas Fiete Krutein, University of Washington

Lessons learned from urban freight pilot tests
Presenter: Andisheh Ranjbari, University of Washington
Co-author: Anne Goodchild, University of Washington

A shift towards "retro" last-mile & urban logistics. How the pandemic has accelerated this trend
Presenter: Wouter Dewulf, University of Antwerp
Co-author: Roel Gevaers, University of Antwerp

Set partition-based formulation and decomposition solution approach for the crowdsourced package delivery problem
Presenter: Dingtong Yang, University of California Irvine
Co-author: Michael Hyland, University of California Irvine

Curbside management in the physical internet
Presenter: Paola Cossu, FIT Consulting SRL
Co-authors: Fabio Cartolano, FIT Consulting; Giuliano Mingardo, Erasmus University Rotterdam; Giacomo Lozzi and Ivo Cré, POLIS; Fernando Liesa, ALICE

Noon-1:30 PM  Keynote Luncheon
Regency ABC
Keynote title: **A Mile in their Shoes: Talent Retention and Acquisition in Supply Chain**

Keynote Speaker: **Tricia Zulic**, State Director, California Society for Human Resource Management

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**1:30-3:00 PM  Concurrent Sessions**

**Beacon A   Track 4-1 Technology & Automation**

*Session Moderator: Sue Dexter, University of Southern California*

**Using artificial intelligence to improve traffic flows with consideration of data privacy principles**

*Presenters: Tyler Reeb, California State University Long Beach*  
*Co-authors: Gwen Shaffer, Hossein Jula, and Anastasios Chassiakos, California State University, Long Beach*

**Freight Automation: Dangers, threats, and opportunities for health and equity**

*Presenter: Jessica Tovar, Moving Forward Network*  
*Co-authors: Joel Ervice, Regional Asthma Management and Prevention; Martha Ockenfels-Martinez, Human Impact Partners*

**Suitability of human monitored autonomous lockers for urban deliveries: a comparison with the current scenario through field observations**

*Presenter: Kartik Varma, Universite Gustav Eiffel*  
*Co-authors: François Combes, and Pierre Eykerman, Universite Gustav Eiffel*

**A Global Truck Parking Problem That Today’s Technology Can’t Fix**

*Presenter: Richard Easley, E-Squared Engineering*

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**Regency E   Track 5-1 E-commerce Consumption Flows**

*Session Moderator: Heleen Buldeo Rai, Univ Gustave Eiffel, Logistics City Chair*

**Reconciling retail and logistics demand in the on-demand economy**

*Presenter: Joris Beckers, University of Antwerp*

**Tracking parcels: Understanding delivery paths and their impacts on a city**

*Presenter: Carla Tejada, City College of New York*  
*Co-authors: Yaxin Zhang and Alison Conway, The City College of New York; Jean-Paul Rodrigue, Hofstra University*
Changes in grocery shopping and related travel during Covid-19  
Presenter: Sarah Dennis, University of California Davis  
Co-authors: Miguel Jaller and Sebastian Amador, University of California Davis; Teddy Forscher, University of California Berkeley

Regency F  Track 3-5 Metropolitan and Network Level Planning  
Session Moderator: Tufayel Chowdhury, University of Toronto

Supply-chain-focused measures of centrality and spread in metropolitan areas  
Presenter: Oriana Calderon, Rensselaer Polytechnic Institute  
Co-authors: José Holguín-Veras, Carlos Rivera-Gonzalez, Joshua Schmid, Benjamin Caron, and Woojung Kim, Rensselaer Polytechnic Institute

Facilitating synchronomodality: A conceptual framework for arbitrating stakeholders’ conflicting interests  
Presenter: Emma Ceulemans, University of Antwerp  
Co-authors: Ivan Cardenas-Barbosa, Thierry Vanelslander and Edwin van Hassel, University of Antwerp

Econometric characterization of spatial distribution of urban freight generation  
Presenter: Oriana Calderon, Rensselaer Polytechnic Institute  
Co-authors: José Holguín-Veras, Carlos Rivera-Gonzalez, and Benjamin Caron, Rensselaer Polytechnic Institute

Urban freight logistics: What do citizens perceive?  
Presenter: Johanna Amaya, Penn State University  
Co-authors: Maira Delgado Lindeman, Julian Arellana Ochoa, Universidad del Norte; Jaime Allen, National Laboratory of Materials and Structural Models (LanammeUCR), Universidad de Costa Rica

3:00-3:30 PM  Break  
Regency Foyer

3:30-5:00 PM  Concurrent Sessions

Beacon A  Track 5-2 Impacts of E-commerce  
Session Moderator: Joris Beckers, University of Antwerp
The community impacts of e-commerce growth: A case study of Berks County, Pennsylvania
Presenter: Alison Conway, City College of New York
Co-author: Moira Conway, Kutztown University

Mobility interventions to protect supply chain workers during pandemics
Presenter: Kevin Gingerich, York University
Co-authors: Elanakayon Annalingam, Peter Park, York University; Erik Nevland, Region of Peel Transportation Planner

Aggregate and income distribution impacts of resilience to seaport and highway transportation network disruption
Presenter: Dan Wei, University of Southern California
Co-authors: Adam Rose, Eyuphan Koc, Zhenhua Chen, and Lucio Soibelman, University of Southern California

Container Terminal Fluidity – Adjusting to the New Normal
Presenters: Philip Davies, Davies Transportation Consulting Inc. and Hanh Le-Griffin, University of Southern California

Gender inequality in the transport sector of Bangladesh
Presenter: Razon Chandra Saha, Head of Research and Innovation, Saif Powertec Limited, Bangladesh

Best practices in at-grade crossing of public roads with railroads
Presenter: Guang Tian, UNO Transportation Institute, University of New Orleans
Co-authors: Maryam Izadi and Brittany Waggener, UNO Transportation Institute, University of New Orleans

A critique on best practices for city logistics
Presenter: Konstantina Katsela, University of Gothenburg
Co-author: Michael Browne, University of Gothenburg

The next normal in urban logistics: The ALICE forward-looking actions on the physical internet to achieve inclusive, shared and interconnected logistics networks
Presenter: Paola Cossu, FIT Consulting SRL
Co-authors: Charlotte Migne, FM Logistics; Hans Schurmans, PROXIMUS; Magnus Blinge, SCANIA; Yanying Li and Fernando Liesa, ALICE

Regency E Track 6-1 Best Practices
Session Moderator: Si Liu, McMaster University

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Regency F Track 1-5 Modeling Freight Activity
Session Moderator: Anne Goodchild, University of Washington
The little ship that got away: Small vessel – Big impact  
Presenter: Elyakim Ben-Hakoun, The Technion - Israel Institute of Technology  
Co-authors: Eddy Van De Voorde, University of Antwerp; Yoram Shiftan, The Technion - Israel Institute of Technology

Cargo bikes and UCCs as a solution to last mile delivery  
Presenter: Mehrab Khan, German Aerospace Center (DLR) and Technische Universität Berlin, Institute of Land and Maritime Transport (ILS)  
Co-authors: Carina Thallera, German Aerospace Center (DLR), Institute of Transport Research; Gernot Liedtke, German Aerospace Center (DLR) and Technische Universität Berlin, Institute of Land and Maritime Transport (ILS)

The daily port & shoreline emission inventory model  
Presenter: Elyakim Ben-Hakoun, The Technion - Israel Institute of Technology  
Co-authors: Eddy Van De Voorde, The University of Antwerp; Yoram Shiftan, The Technion - Israel Institute of Technology

Redesigning "Clean Trucks" Programs for the Emerging Energy Transition  
Presenter: Nathan Hutson, University of North Texas  
Co-author: Gina Park, University of North Texas

5:00-7:00PM  TRB - Intermodal Freight Transport Committee Meeting (AT045)  
Beacon A  Non-Members Welcome
Friday, May 27, 2022

7:30-8:00 AM  Continental Breakfast and Check In
Regency Foyer

8:00-9:30 AM  Plenary Session
Regency ABC

Keynote topic: Perspectives on Technology Implementation
Moderator: Genevieve Giuliano, Director, METRANS Transportation Consortium

Panelists:
Biju Kewalram, Guest Lecturer CSULB / CITT, Chief Digital Officer, Transformation Core
Jack Symington, Sr. Program Manager of Transportation, LACI

9:30-9:45 AM  Break
Regency Foyer

9:45 AM - 11:15AM  Concurrent Sessions

Beacon A  Special Session: Transportation Planning Considerations for Cities with Growing Warehousing Operation
Moderator: Fatemeh Ranaiefar, Fehr & Peers

Panelists:
Gena Guisar, CSG Consultants
Jason Welday, City of Rancho Cucamonga
Jolene Hayes, Fehr & Peers
Blair Dahl, Goodman

Regency E  Track 1-6 Consumer Behavior and Equity
Session Moderator: Usman Ahmed, University of Toronto

Spatial accessibility and equity analysis of Amazon parcel locker facilities
Presenter: Miguel Figliozzi, Portland State University
Co-author: Jaclyn Schaefer, Portland State University
Effect of COVID-19 on equity of fresh food distribution in New York City
Presenter: Alison Conway, City College of New York
Co-authors: Camille Kamga, Sandeep Mudigonda, Patricio Vicuna, Charles Ukegbu, Susan McSherry, Diniece Mendes, Justin Romeo, and Denise Ramirez, University Transportation Research Center

Explore the Potential of Applying Smart Mobile Lockers with City Buses for the Last-Mile Deliveries in the City of Mississauga, Canada
Presenter: Si Liu, McMaster University
Co-author: Elkafi Hassini, McMaster University and Zhen Qiao, Waseda University

Regency F Track 6-2 Data and Methods
Session Moderator: Konstantina Katsela, University of Gothenburg

Analysis on the clean truck program and the local air quality: Case of the Port of New York and New Jersey
Presenter: Gina Yeonkyeong Park, Cornell University

Residential freight trip generation: A review of current methods and datasets
Presenter: Panagiota Goulianou, University of Washington
Co-authors: Giacomo Dalla Chiara and Anne Goodchild, University of Washington

A guidebook for implementing freight fluidity for Texas and its regions
Presenter: Bill Eisele, Texas A&M Transportation Institute
Co-authors: Nicole Katsikides, Mario Monsreal, Jason Wallis, William Hwang, and Casey Wells, Texas A&M Transportation Institute

Operational analysis of emergency truck parking in Florida state under emergency situations
Presenter: Vasileia Antonoglou, Florida Atlantic University
Co-authors: Katerina Koliou and Evangelos Kaisar, Florida Atlantic University

11:30 AM - 5:00 PM  SITE TOUR

I-NUF attendees with Eventbrite tickets only - limited seating; Tour at Santa Monica Zero Emissions Delivery Zone Pilot Program and TTSI's Clean Energy Facility. Lunch provided.