

Jun.22 — Jun.27 2025
Okinawa, Japan

XII

Triennial Symposium on Transportation Analysis



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Eiji Hato

Chair TRISTAN XII 2025
The University of Tokyo

Youkoso !

We are truly honored to welcome (youkoso) you to Okinawa, Japan for the esteemed TRISTAN international conference. Historically celebrated as Bankoku Shinryo—the “Bridge of Nations”—Okinawa has long stood as a gateway connecting diverse regions across East Asia and beyond. This beautiful island, embraced by the sparkling southern seas, prospered as a maritime hub where ships forged bonds among nations through trade and cultural exchange. It is with great joy that we gather here in this historically rich and naturally vibrant setting to host a conference that continues the spirit of global connection through transportation research.

This year, we received nearly 500 outstanding submissions from over 50 countries and regions, reflecting the remarkable breadth and depth of innovation in our field. After a rigorous peer-review process, approximately 160 papers have been selected for presentation.

We are privileged to welcome three globally renowned scholars as keynote speakers: Professors Michel Bierlaire, Yafeng Yin, and Karen Smilowitz. Their talks will delve into timely and provocative themes—combinatorial choice modeling, autonomous driving with participatory traffic control, and humanitarian logistics operations under disaster conditions—each offering a window into the cutting edge of transportation science. As we participate in these sessions, inspired by the surrounding beauty of the sea, we hope that the new research and perspectives shared will spark fresh insights—entirely new trajectories in transportation analytics, logistics management, autonomous systems, drone operations, and shared mobility.

Through the vibrant discussions at the conference and the embodied experience of movement across the island during our social activities, we believe that these ideas will emerge organically from within us all. We warmly invite you to enjoy this unique opportunity for open exchange, academic inspiration, and unforgettable moments—here in Okinawa, where tradition and innovation meet across the seas.

Program Outline

TRISTAN2025 OKINAWA

	June 22 SUNDAY	June 23 MONDAY	June 24 TUESDAY	June 25 WEDNESDAY	June 26 THURSDAY	June 27 FRIDAY
8:00						
9:00		Session 1	Session 5	Day Trip Lunch Included	Session 9	Session 13
10:00		Break	Break		Break	Break
11:00		Session 2	Session 6		Session 10	Session 14
12:00		Lunch at Venue	Lunch at Venue		Lunch at Venue	Lunch at Venue
1:00						
2:00		Session 3	Session 7		Session 11	Session 15
3:00	Opening					Break
4:00	Plenary Session	Break	Break		Break	Session 16
5:00	Plenary Session	Session 4	Session 8	Session 12		
6:00	Break				Closing	
7:00	Panel Discussion					
8:00	Welcome Party at Venue				Gala Dinner at Moon Beach Hotel	

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Transportation Research for Social Impact in a Changing World

June 22, Sunday

Plenary session

3:00 pm - 3:40 pm

Professor Karen Smilowitz



Professor of Industrial Engineering and Management Sciences, McCormick School of Engineering

Prof. Karen Smilowitz specializes in modeling and solution approaches for logistics and transportation systems in commercial and nonprofit applications. Dr. Smilowitz has promoted operations research in humanitarian sectors through organizations like the Woodrow Wilson International Center, AAAS, and NAE. She serves as Editor-in-Chief of Transportation Science and is an INFORMS Fellow.

in their own work. The talk will also include a discussion of what journals are doing to promote such impactful work, with a particular focus on innovations at Transportation Science. In doing so, I will highlight the important changes to Transportation Science during my time as Editor-in-Chief. This will include both an overview of editorial structure as well as thoughts regarding the future of the journal.

“
Participatory Traffic Control: Leveraging Connected and Automated Vehicles for Enhanced Network Efficiency

June 22, Sunday

Plenary session

3:40 pm - 4:20 pm

Professor Yafeng Yin



Donald Malloure Department Chair of Civil and Environmental Engineering and Donald Cleveland Collegiate Professor of Engineering

Prof. Yafeng Yin is a Professor of Civil and Environmental Engineering and Professor of Industrial and Operations Engineering at University of Michigan, Ann Arbor. His research aims to analyze and enhance multimodal transportation systems towards efficiency, resilience, and environmental sustainability. He focuses on developing innovative mobility solutions and services by leveraging vehicle connectivity and automation. He led new research fields as chief editor of a top international journal in transportation engineering.



Combinatorial Choices

June 22, Sunday

Plenary session

Professor Michel Bierlaire



Full Professor, School of Architecture, Civil and Environmental Engineering, Ecole Polytechnique Fédérale de Lausanne

Prof. Michel Bierlaire holds a PhD in Mathematical Sciences from the University of Namur, Belgium. He served as a research associate at MIT's Intelligent Transportation Systems Program (1995-1998), then joined EPFL where he became full professor in 2012. He directs the Transport and Mobility laboratory and specializes in transportation system modeling and discrete choice models. He has published 152 journal papers with an h-index of 76, founded hEART association, and serves as Associate Editor of Operations Research.

4:20 pm - 5:00 pm

Traditional discrete choice models are grounded in the assumption that decision-makers solve a continuous optimization problem, with econometric formulations derived from its first-order optimality conditions. However, many real-world decisions involve selecting combinations of alternatives—such as planning a sequence of activities—rendering the choice inherently combinatorial. In such settings, the underlying decision problem becomes a combinatorial optimization task, for which standard optimality conditions do not apply. This lecture introduces the framework of combinatorial choice, with a focus on its relevance for modeling the activity schedules of travelers in the context of travel demand forecasting. **This talk is based on joint work with Frédéric Meunier, Léa Ricard and Prunelle Vogler.**

Program June 23

Session 1 8:30 am - 10:00 am

Room 1: Humanitarian Logistics

Chair: Riki Kawase

- 1 Yiqi Cai and S Sun: Optimizing customized bus routing and maximum seat occupancy rate under the influence of epidemic outbreaks
- 2 Nastaran Ozaldad, Esther Jose, Rajan Batta and Miguel Lejeune: UAV Search and Routing Planning In a Disaster Area
- 3 Riki Kawase: Multi-stage distributionally robust optimization for pre- and post-disaster humanitarian logistics with information constraints

Room 2: Shared and Autonomous Vehicles

Chair: Abdel Lisser

- 1 Mengjie Li, Haoning Xi and Chi Xie: Dynamic operations of shared autonomous electric vehicle system considering battery swapping station bottleneck congestion
Seshadri Naik Moode, Francesc Soriguera, Bryce Chao and Margarita Martínez-Díaz: Lane Management Strategies to Enhance Traffic Performance in Mixed Traffic Environments with Platoons of Connected Autonomous Vehicles
- 2 Abdel Lisser and Ange Valli: Continuous-time optimal control for trajectory planning of autonomous vehicles under joint probabilistic constraints

Room 3: Travel Behavior Analysis

Chair: Makoto Okumura

- 1 Makoto Okumura, Yuri Sawamura and Hiromichi Yamaguchi: Grasp the Amount and Service Level of Directionally Predominant Traffic Using Hourly Population Distribution of Docomo's Mobile Spatial Statistics Data
- 2 Rolf van Lieshout and Kevin Dalmeijer: A Unified Approach to Evaluation and Routing in Public Transport Systems
- 3 Jian Li, Tian Gan, Weifeng Li and Yuhang Liu: A spatiotemporal knowledge graph-based method for identifying individual activity locations from mobile phone data

Session 2 10:30 am - 0:00 pm

Room 1: Integrated Freight and Passenger Transport

Chair: Maximilian Schiffer

- 1 Yue Lin, Hai Yang and Hai Wang: Group-and-Match vs. Route-then-Insert - Order Dispatching in Vehicle-Based Dual Services (VeDuS)
- 2 Paul Bischoff, Benedikt Lienkamp, Tarun Rambha and Maximilian Schiffer: Dynamic capacity allocation for cargo-hitching in urban public transportation systems

Program June 23

Room 2: Mechanism Design

Chair: Mike Hewitt

- 1 Steffen Elting, Jan Fabian Ehmke and Margaretha Gansterer: Preference learning for efficient bundle selection in horizontal transport collaborations
- 2 Qingyang Li and Fangni Zhang: Crowdshipping platform as an intermediary: Auction-based mechanism design for order allocation and payment schemes

Room 3: Discrete Choice Model 1

Chair: Yu Gu

- 1 Rui Yao and Kenan Zhang: Perturbed utility Markovian choice model: choice probability generation function and estimation
- 2 Yu Gu and Anthony Chen: An exponentiated random utility model (ERUM): Properties and application to bounded travel choice
- 3 Valentina Gómez, Andrés Fielbaum and Sergio Jara-Díaz: The theoretical role of the pure transfer penalty when determining whether to split a public transport line

Session 3 1:30 pm - 3:30 pm

Room 1: Consolidation-Based Freight Services

Chair: Teodor Gabriel Crainic

- 1 Onkar Kulkarni, Mathieu Dahan and Benoit Montreuil: Designing Relay-Hub Networks for Consolidation Planning Under Demand Uncertainty
- 2 Teodor Gabriel Crainic: Multi-layer Network Design for Consolidation-based Transportation Planning
- 3 Gita Taherkhani, Hao Li, Mike Hewitt and Sibel Alumur Alev: Hub location and service network design under uncertainty
- 4 Mike Hewitt, Simon Belieres and François Clautiaux: The Scheduled Service Network Design Problem with Bin Packing and Heterogenous Fleets

Room 2: Reinforcement Learning based VRP

Chair: Joseph Chow

- 1 Farnoosh Namdarpour and Joseph Chow: Non-myopic Matching and Rebalancing in Large-Scale On-Demand Ride-Pooling Systems Using Simulation-Informed Reinforcement Learning
- 2 Federico Berto, Chuanbo Hua, Nayeli Gast Zepeda, André Hottung, Niels Wouda, Leon Lan, Junyoung Park, Kevin Tierney and Jinkyoo Park: A Foundation Model for Vehicle Routing Problems
- 3 Chuanbo Hua, Federico Berto, Jiwoo Son, Seunghyun Kang, Changhyun Kwon and Jinkyoo Park: Learning Profile-Aware Vehicle Routing Problems with Collaborative Attention
- 4 André Hottung, Paula Wong-Chung and Kevin Tierney: Learning destroy operators for vehicle routing problems with deep neural networks

Program June 23

Room 3: Network Design 1

Chair: Zhou Xu

- 1 Lacy Greening, Alan Erera and Santanu Dey: Improving Dual Bounds for the Unsplittable Multicommodity Capacitated Network Design Problem
- 2 Shengnan Shu, Zhou Xu and Roberto Baldacci: An Enhanced Dynamic Discretization Discovery Algorithm for Continuous-Time Service Network Design Problem
- 3 Rob Zuidwijk, Camill Harter and Otto Koppius: Vulnerability of Collaborative Transport Networks
- 4 Myungeun Eom, Alan Erera and Alejandro Toriello: Recursive Partitioning and Batching for Massive-Scale Network Design with Service Time Guarantees

Session 4 4:00 pm - 6:00 pm

Room 1: Timetabling 1

Chair: Konstantinos G. Zografos

- 1 Florian Fuchs, Bernardo Martin-Iradi and Francesco Corman: A Logic-Based Benders Decomposition Approach for Cyclic Microscopic Timetabling
- 2 Weihua Gu, Li Zhen, Minyu Shen and Le Zhang: Nonlinear and Ready-to-depart Based Bus Holding Control
- 3 Bianca Pascariu and Paola Pellegrini: A GRASP-based solution for real-time train route selection in disturbed railway traffic
- 4 Jia Hui Zhu, Dennis Huisman and Twan Dollevoet: Iterative Two-Stage Stochastic Programming Approach for Real-Time Rolling Stock Rescheduling Under Uncertainty

Room 2: Stochastic Programming

Chair: Kenetsu Uchida

- 1 Laura Kolcheva, Antoine Legrain and Martin Trépanier: Online Stochastic Optimization for Real-Time Transfer Synchronization in Public Transit Networks
- 2 Jiali Deng and Giovanni Pantuso: Pricing carsharing services under decision-dependent demand uncertainty: A two-stage stochastic programming approach
- 3 Breno Serrano, Alexandre Jacquillat, Stefan Minner and Maximilian Schiffer: Optimizing ride-hailing with a mix of on-demand and pre-booked customers under distributional shift
- 4 Yimeng Zhang, Jingyi Cheng, Oded Cats and Shadi Sharif Azadeh: Stochastic Optimization under Supply Uncertainty for Multimodal Trip Planning Based on Demand Prediction

Room 3: Graph Neural Network

Chair: Tingting Zhao

- 1 Changle Song, Emily Moylan and David Levinson: Aggregated Knowledge Learning for Dynamic Vehicle-Task Assignment in Emergency Medical Services
- 2 Mingxue Guo, Tingting Zhao, Jianxi Gao, Xin Meng and Ziyou Gao: Discovering and Quantifying Extreme Failure Scenarios through Graph Learning for Road Transportation Systems
- 3 Elena Natterer, Roman Engelhardt, Sebastian Hörl and Klaus Bogenberger: Machine Learning Surrogates for Optimizing Transportation Policies with Agent-Based Models

Program June 24

Session 5 8:30 am - 10:00 am

Room 1: Last-Mile Delivery 1

Chair: Emanuele Manni

- 1 Mikele Gajda, Olivier Gallay, Renata Mansini and Filippo Ranza: Leveraging public transit for efficient last-mile delivery through crowdshipping
- 2 Gianpaolo Ghiani, Emanuela Guerriero, Emanuele Manni and Deborah Pareo: Sustainable last-mile logistics with parcel lockers and autonomous delivery robots
- 3 Dipayan Banerjee and Ignacio Erazo: Batching and In-Building Delivery Routing with Capacitated Residential Parcel Lockers

Room 2: Column Generation 1

Chair: Vikrant Vaze

- 1 Alberto Santini and Vikrant Vaze: Integrated Regional Airline Scheduling Via Column Generation
Louis Fourcade and Stéphane Dauzère-Pérès: Combining Lagrangian relaxation and a two-set column generation model for integrated railway freight planning
- 3 Rick Willemsen and Bart Van Rossum: A Column Generation Heuristic for the Three-Dimensional Truck Loading Problem

Room 3: Urban Planning and Science

Chair: Jean-François Cordeau

- 1 Anju Kawazu and Kuniaki Sasaki: A Study on the Tour and Consumption Behavior at Station Areas in Considering the Green Coverage
- 2 Jean-François Cordeau, Nicolas Cabrera and Jorge Mendoza: The Dynamic Park-and-loop Routing Problem

Session 6 10:30 am - 0:00 pm

Room 1: Drone and Air Mobility Control 1

Chair: Guglielmo Lulli

- 1 Wenjia Zeng, Ruiwei Jiang, Hai Yang and Hai Wang: Drone Delivery Network Design with Uncertainties
- 2 Go Nam Lui and Guglielmo Lulli: A mixed integer programming approach for airspace sector design problem
- 3 Wenxuan Wang, Mai Zhang, Ethan Beech, Arnab Majumdar, Washington Ochieng and Jose Escribano: Risk-based truck-drone delivery optimization

Program June 24

Room 2: Vehicle Routing Problem 1

Chair: Song Gao

- 1 Guocheng Jiang and Song Gao: A Model-Based Approach to Vacant Vehicle Routing of a Ride-Sourcing Fleet in Transportation Networks
- 2 Christoph Kerschler, Stefan Minner, Fabien Lehuédé and Guillaume Massonnet: Decomposition and Set Covering Strategies for Large-Scale Heterogeneous Vehicle Routing Problems
- 3 Wenbin Ouyang, Sirui Li, Yining Ma and Cathy Wu: Learning to Segment for Capacitated Vehicle Routing Problems

Room 3: Survey and Sensing

Chair: Makoto Chikaraishi

- 1 Amir Ahmadian, Mehdi Nourinejad and Matthew Roorda: Logistics of Urban Monitoring with Moving Sensors
- 2 Carlos Lima Azevedo, Marta Conceicao, Sonja Haustein, Paulo Morgado and Bruno Miranda: A naturalistic experiment on individual activity, mobility and emotional patterns
- 3 Reem Alolabi and Makoto Chikaraishi: Striking a Balance: Co-Training Framework for Enhancing Survey Accuracy While Reducing Respondent Burden in Travel Data Collection

Session 7 1:30 pm - 3:30 pm

Room 1 : Timetabling 2

Chair: Jiateng Yin

- 1 Robin Gaborit, Yu Jiang, Evelien van der Hurk and Otto Anker Nielsen: An adaptive large neighbourhood search with MILP and heuristic repair operators for bus timetabling
- 2 Pedro José Correia Duarte, Lucas Petrus Veelenturf and Dennis Huisman: Modeling and Optimising Infrastructure Upgrade Deployment in Railway Networks Operating Cyclic Timetables
- 3 Boris Grimm and Ralf Borndorfer: Passenger Based Intermodal Connection Optimization of the Italian Passenger Railway Network
- 4 Jiateng Yin, Hanxiao Fan, D'Ariano Andrea and Rui Wang: Data-Driven Train Timetabling with Contextual Information

Room 2: Robust Optimization

Chair: Koki Satsukawa

- 1 Ritesh Ojha and Alan Erera: Robust Outbound Load Planning with Volume Splitting for Parcel Carriers
- 2 Mikkel Lassen Johansen, David Pisinger and Stefan Røpke: A Consensus Fixing Based Heuristic for Liner Shipping Network Design with Stochastic Demands
- 3 Ze Wang, Zhiqi Shao, Michael G.H. Bell, D. Glenn Geers and Junbin Gao: Optimizing Skip Schedules for Construction and Demolition Waste Management under Uncertainty
- 4 Yihan Gao and Wei Liu: Robust planning of bus fleet electrification and charging facility deployment

Program June 24

Room 3: Integrating Fixed-Route and On-Demand Transit

Chair: Vikrant Vaze

- 1 Yifei Sun and Vikrant Vaze: Integrated Urban Transportation Network Design for Alleviating Transit Deserts
- 2 Bernardo Martin-Iradi, Francesco Corman and Nikolas Geroliminis: Capacity planning for demand-responsive multimodal transit
- 3 Alexandre Jacquillat, Bernardo Martin-Iradi, Alexandria Schmid and Kayla Cummings: Deviated Fixed-route Microtransit: Design and Operations
- 4 Alexandre Jacquillat, Julia Yan, Arthur Delarue and Shriya Karam: Microtransit design: fixed-line transit, on-demand mobility, or both?

Session 8 4:00 pm - 6:00 pm

Room 1: Logistics Optimization 1

Chair: Toru Seo

- 1 Dorsa Abdolhamidi and Virginie Lurkin: A time-slot management problem with mixed logit demand
- 2 Yousef Maknoon, Maurice Hart Nibbrig and Shadi Sharif Azadeh: An Integrated Framework for Network-Wide Assessment and Improvement of Supply Chain Resilience
- 3 Adnan Pasha, Jiyin Liu and Rajat Rastogi: A Parallel Berth Allocation Problem in Multipurpose Inland Waterway Terminals
- 4 Toru Seo and Riki Kawase: Facility and dynamic fare design for multimodal automated vehicle logistics system under traffic flow constraints

Room 2: Game Theory 1

Chair: Negin Alisoltani

- 1 Ozan Candogan and Manxi Wu: Information design for spatial resource allocation
- 2 Ang Xu and Chiwei Yan: Optimal Dispatching for Two-sided Spatial Queues
- 3 Negin Alisoltani, Mostafa Ameli, Megan Khoshyaran and Jean-Patrick Lebacque: Mean-Field Game Optimization in Bounded-Acceleration Traffic Models for CAVs
- 4 Zhaohan Wang, Mohsen Ramezani and David Levinson: Autonomous vehicle control on lane-free roads: A level-k game approach

Room 3: On-Demand Mobility 1

Chair: Francesco Viti

- 1 Richard Connors, Haruko Nakao, Tai-Yu Ma and Francesco Viti: Continuous Approximation Model for a Demand Responsive Feeder Service with Meeting Points
- 2 Francisco Vilches, Cristián E. Cortés and Andrés Fielbaum: Selecting an optimal set of shared ridepooling stops
- 3 Haruko Nakao, Koki Satsukawa, Takamasa Iryo, Richard Connors and Sowa Suzuki: Evolutionary process of self-financed shared mobility systems
- 4 Lory Michelle Bresciani Miristice and Guido Gentile: Improving the convergence of Schedule-Based Dynamic Transit Assignment Models with capacity constraints

Program June 26

Session 9 8:30 am - 10:00 am

Room 1: Traffic and Transit Assignment 1

Chair: Judith Y. T. Wang

- 1 Judith Y. T. Wang, Richard P. Batley, Matthias Ehrgott, Pornpimon Boriman and Thanathorn Phoka: A Multi-objective User Equilibrium of Time Loss in Congestion and Time Surplus
- 2 Debojjal Bagchi and Stephen D. Boyles: Error bounds for stochastic user equilibrium traffic assignment
- 3 Zenghao Hou and Ludovic Leclercq: Multimodal stochastic user equilibrium of a tradable credit scheme considering vehicle capacity and passenger waiting time

Room 2: Distributed Control and Decentralized Allocation

Chair: Mohsen Ramezani

- Alireza Soltani, David Levinson and Mohsen Ramezani: Communication-free Distributed
- 1 Model Predictive Control for Autonomous Vehicles at Lane-free and Signal-free Intersections
 - 2 Yuhao Liu, Zhibin Chen, Joseph Y.J. Chow and Xi Lin: First-come-first-served Decentralized Assignment of Capacitated Resources with Partially Observable User Preference
 - 3 Zhongyang Lu and Andy H. F. Chow: Modeling paradigm for adaptive decentralized traffic control via a rollout reinforcement learning approach

Room 3: Sustainable Transport Planning

Chair: Junji Urata

- 1 Yingtian Zhang and Gege Jiang: Incentive Scheme for Low-carbon Travel Based on the Public-private Partnership and Personal Trip Carbon Accounts
- 2 Jinshu Cai, Yanyan Ding and Sisi Jian: Optimal Pricing and Reputation Investment for Sustainable Aviation Fuel with Herd Effects and Heterogeneous Customers
- 3 Ahmad Rusdiansyah, Ratna Sari Dewi and Zara Safira Ramadhani: Refrigerated Container Loading Problem (R-CLP) Models for Managing Arrangement of Smart Containers

Session 10 10:30 am - 0:00 pm

Room 1: Last-Mile Delivery 2

Chair: Takamasa Iryo

- 1 Minghao Chen, Ang Li and Max Li: Scheduling and Routing for Multi-modal Last-mile Delivery under Multiple Uncertainties
- 2 Yang Bo, Milind Dawande and Ganesh Janakiraman: Food-Delivery Platforms: A Near-Optimal Policy for Capacity Sizing, Order Batching, and Spatial Routing

Program June 26

Room 2: Two-Sided Markets

Chair: Yuki Oyama

- 1 Yue Yang and Mohsen Ramezani: The intraday competition in a duopoly ride-hailing market
- 2 Hai Yang and Joseph Chow: A scalable three-sided electric Mobility-as-a-Service assignment game model with charging activity
- 3 Guipeng Jiao, Yue Yang and Mohsen Ramezani: On the Joint Effects of Supply and Demand Multi-homing in the e-hailing Market

Room 3: Data-Driven Analysis 1

Chair: Haoning Xi

- 1 Huichang Lee, Prateek Bansal, Khoa D. Vo and Eui-Jin Kim: Collaborative generative adversarial networks for fusing household travel survey and smart card data to generate heterogeneous activity schedules
- 2 Xiaoshu Ding, Haoning Xi, Han Fang and Sisi Jian: Data-driven optimization of pricing and vehicle relocation for ridesourcing platforms considering reservation
- 3 Xinghang Zhu, Xiaoxu Chen, Luis Miranda-Moreno and Lijun Sun: Uncovering Unmet Demand in Bike-sharing Systems Based on Bayesian Gaussian Decomposition of Time-varying OD Tensor

Session 11 1:30 pm - 3:30 pm

Room 1: Dynamic Fleet Management

Chair: Tai-Yu Ma

- 1 Julie Kienzle, Teodor G Crainic and Emma Frejinger: Blocking and Railcar Fleet Management for Intermodal Rail Transportation
- 2 Tai-Yu Ma, Richard Connors and Francesco Viti: Coordinated vehicle dispatching and charging scheduling for an electric ride-hailing fleet under charging congestion and dynamic prices
- 3 Dingtong Yang, Yubin Liu, Hai Wang, Jinhua Zhao and Hamsa Balakrishnan: Minimum Multi-Service Fleet Size Problem: Shareability Graph and Network Flow Approach
- 4 Tarek Chouaki and Sebastian Hörl: Analysis and mitigation of discriminatory behaviour in fleet management algorithms

Room 2: Reinforcement Learning

Chair: Prateek Bansal

- 1 Qiming Ye, Prateek Bansal and Bryan Adey: A Reinforcement Learning Approach to Plan Charging Stations for Shared Electric Vehicles
- 2 Jim Dai, Manxi Wu and Zhanhao Zhang: Atomic Proximal Policy Optimization for Electric Robo-Taxi Dispatch and Charger Allocation
- 3 Yang Deng, Andy Chow and Zhili Zhou: Fair Courier Assignment and Dynamic Food Pricing via Multi-Agent Reinforcement Learning with Communication

Program June 26

Room 3: Equity-Based Transportation Management

Chair: Daisuke Fukuda

- 1 Kayla Cummings, Vikrant Vaze, Ozlem Ergun and Cynthia Barnhart: Multimodal Transportation Pricing Alliance Design: Large-Scale Optimization for Rapid Gains
- 2 Khadija Kadem, Mostafa Ameli, Carlos Lima Azevedo, Mahdi Zargayouna and Latifa Oukhellou: Shared mobility services: exploring their impact on equity in multimodal transportation systems
- 3 Jing Gao and Sen Li: Regulating Autonomous Ride-Hailing Services for an Equitable Multimodal Transportation Network

Session 12 4:00 pm - 6:00 pm

Room 1: Timetabling 3

Chair: Roberto Maria Rosati

- 1 Roberto Maria Rosati, Valentina Cacchiani and Vera Hemmelmayr: A Multi-Neighborhood Search Approach to Rolling Stock Rescheduling
- 2 Shouyi Wang, Andy Chow and Chengshuo Ying: Adaptive routing and scheduling of network-wide rail transit services with flexible train composition
- 3 Hoang Thi Khue Nguyen, Dennis Huisman and Paul Bouman: Solving Train Timetabling Adjustment Problems with integrated track assignments
- 4 Estia Maliqari, Dritan Nace, Antoine Jouglet and Giuliana Barbarino: Optimization of railway resource planning process in a multi-level scale

Room 2: Vehicle Routing Problem 2

Chair: Bilge Atasoy

- 1 Yu Yao and Pengli Mo: Time-Dependent Vehicle Routing Problem in Subway-Assisted Delivery Systems
- 2 Pedro Zattoni Scroccaro, Peyman Mohajerin Esfahani and Bilge Atasoy: Inverse Optimization for Dynamic Vehicle Routing
- 3 Nele Bertling, Kevin Tierney and Michael Römer: Quantile-based Sequential Learning and Optimization for Contextual Stochastic Vehicle Routing

Room 3: Disaster Management

Chair: Valentina Morandi

- 1 Valentina Morandi, M.Grazia Speranza and Lorenzo Peirano: Real-time control of traffic flows under disruptive events
- 2 Miguel Lejeune, François Margot and Alan Delgado de Oliveira: Prompt and Reliable Medical Evacuation with Air Ambulances
- 3 Ruri Sase and Satoshi Sugiura: Excess-demand isolation vulnerability analysis based on a bipartitioning minimum cut

Program June 27

Session 13 8:30 am - 10:00 am

Room 1: Logistics Optimization 2

Chair: Ricardo Giesen

- 1 Gal Neria, Michal Tzur and Marlin Ulmer: A General Optimization Framework for Dynamic Two-Stage Order Fulfillment Problems
- 2 Ricardo Giesen, Dario Farren and Luis Ignacio Rizzi: Economics of Empty Trips and Collaborative Logistics
- 3 Cigdem Karademir and Bilge Atasoy: Two-echelon city logistics by integrating road and water transport: Amsterdam case study

Room 2: Vehicle Routing Problem 3

Chair: Pirmin Fontaine

- 1 Zhenjun Tian, Zhaoxia Guo, Feng Guo, Mouna Bamoumen and Jan Fransoo: A deep attention model for solving vehicle routing problems with uncertain parking availability
- 2 Pirmin Fontaine and Johannes Gückel: Fast Shapley Value approximation in routing problems through machine learning models

Room 3: Discrete Choice Model 2

Chair: Giancarlos Parady

- 1 Giancarlos Parady, Ko Inagaki and Kiyoshi Takami: Estimating the Joint Accessibility of Group Travel: A Case Study of Leisure Activities in The Greater Tokyo Area
- 2 Ronghui Liu and Bo Zhou: Rationally Inattentive Route Choice: A Link-Based Model
- 3 Heqing Tan, Yu Gu and Anthony Chen: Are travelers more satisfied with more options offered? A choice set paradox

Session 14 10:30 am - 0:00 pm

Room 1: Resilience

Chair: Hajime Watanabe

- 1 Md Tabish Haque, Jan Eisold and Nikola Besinovic: Resilience of Railway Stations: Impacts of Strategic Infrastructure Modifications
- 2 Takumi Mori, Hiroe Ando and Ryuji Kakimoto: Development of network generation model with the properties of real road networks by machine learning

Room 2: Column Generation 2

Chair: Negin Alisoltani

- 1 Negin Alisoltani, Younes Delhoum, Mostafa Ameli and Mahdi Zargayouna: Optimizing Shared Mobility: A Penalized Column Generation Model for Peer-to-Peer Ride-Sharing
- 2 Yahan Lu, Rolf van Lieshout, Layla Martin and Lixing Yang: Line planning under crowding: A row-and-column generation approach
- 3 Tarun Rambha: Optimized Itinerary Planning for Tourist Attractions

Program June 27

Room 3: OD Estimation

Chair: Chao Zhang

- 1 Arwa Alanqary, Chao Zhang, Yechen Li, Neha Arora and Carolina Osorio: Improving simulation-based origin-destination demand calibration using sample segment counts data
- 2 Giovanni Tataranno, Federico Bigi and Francesco Viti: Dynamic OD Matrix Estimation using Data-Driven Modelling under Data-Scarcity: an application of Sparse Variational Gaussian Process
- 3 Marisdea Castiglione, Guido Cantelmo, Ernesto Cipriani and Marialisa Nigro: Advancing Dynamic Origin-Destination Matrices Estimation Models Using Crowd-Sourced Flexibility Data

Session 15 1:30 pm - 3:00 pm

Room 1: Drone and Air Mobility Control 2

Chair: Yun Hui Lin

- 1 Yun Hui Lin and Qingyun Tian: Urban Air Mobility Service Network Design: Ridership Maximization and Exact Solution Algorithm
- 2 Ricardo Modrego and Sofia Perez-Guzman: Optimization of Drone and Truck Operations for Socially Optimal Disaster Relief Distribution
- 3 Claudia Archetti, Maurizio Boccia, Adriano Masone and Claudio Sterle: A new MILP formulation and a Branch-and-cut Algorithm for the TSP with Release Dates and Drone Resupply

Room 2: Network Design 2

Chair: Ryuichi Tani

- 1 Simon Belieres, Yannick Oskar Scherr and Mike Hewitt: Integration of Hub Capacity Acquisition Decisions in the Scheduled Service Network Design Problem
- 2 Sorachi Matsumoto, Ryuichi Tani and Kenetsu Uchida: Fast heuristic for global optimization of continuous network design problem with stochastic user equilibrium
- 3 Gabriel Deza, Michal Tzur and Tal Raviv: Line Network Design for Parcel Routing with Handling Times

Room 3: Data-Driven Analysis 2

Chair: Takao Dantsuji

- 1 Marija Kukic and Michel Bierlaire: Gibbs Sampler for Generating Longitudinal Synthetic Populations
- 2 Zhi Li, Ma Wei, Zhibin Chen and Minghui Zhong: Deep Generative Networks for Synthesizing Data on Electric Vehicle Driving and Charging Events
- 3 Paul de Nailly, Etienne Côme, Angelo Furno and Latifa Oukhellou: A data fusion framework for the estimation of dynamic multimodal OD flows within urban areas

Session 16 3:30 pm - 5:00 pm

Room 1: Traffic and Transit Assignment 2

Chair: Hiroe Ando

- 1 Jean-Patrick Lebacque and Megan Khoshyaran: Complex dynamics in transportation networks in the context of assignment
- 2 Yuzhen Feng and Wei Liu: Budget-constrained user equilibrium: A quasi-variational inequality approach

Room 2: Game Theory 2

Chair: Kenan Zhang

- 1 Zhanhao Zhang, Ruifan Yang and Manxi Wu: Designing High-Occupancy Toll Lanes: A Game-Theoretic Analysis
- 2 Xuhang Liu, Kenan Zhang and Rui Yao: Population Markov Potential Game: An Alternative Framework for Markovian Traffic Assignment
- 3 Bing Song and Sisi Jian: Privacy-Preserving Contextual Personalized Dynamic Pricing for Ride-Hailing Platforms

Room 3 : On-Demand Mobility 2

Chair: Yusuke Hara

- 1 Youngseo Kim, Sirui Li, Hins Hu, Wenbin Ouyang, Samitha Samaranyake and Cathy Wu: Learning to Prune: Fast Feasible Trip Generation for High-capacity Ridepooling
- 2 Joachim Andreassen, Frederik Sørensen, Asger Tang, Carolin Schmidt, Daniele Gammelli, Francisco Pereira and Filipe Rodrigues: Learning-based control of AMoD in competitive environments
- 3 Euntak Lee, Rim Slama and Ludovic Leclercq: Assessing the Resilience of Rebalancing Strategies for Ride-hailing Services in Multi-modal Transportation System

Notes

Presentation time: 15 min + Q&A time: 15 min

Wifi ID: guest

- To ensure that the session runs smoothly, please keep to your presentation time. You may use your own laptop PC to project your slides. The connection is HDMI.
- As a backup in case of connection problems, please upload your slides to the QR code.
- When doing so, please name the file "PaperID_YourName.pptx" or "PaperID_YourName.pdf."



Upload Link



Day Trip

8:45 Designated meetup venues or each bus stops

Okinawa Churaumi Aquarium

11:15
12:00 Departure from the Toguchi port

Minna Island and Lunch

16:30
17:15 Departure from the Minna Island port

You can return to the venue or bus stop at 18:00 - 18:30.

Full Day, including lunch, drinks, and transfer.

All you need to bring is suncream and beach towels.

Please take responsibility for your own activities on the island.

CASH is the only payment method at Minna Island.



Gala Dinner

The event will be held at **The Moon Beach Museum Resort**, a short distance from the venue.

Shuttle buses will be provided from the venue, so please follow the staff's instructions after the final session. We will escort you to the bus.

The Gala Dinner will be a buffet-style meal.

There is no dress code, but participation in wet clothing will not be permitted.

The results of the vote for the next venue will be announced at the venue!



The Moon Beach Museum Resort

Restaurant Information

Vegan Restaurant

vegan cafe niceness
1635-1 Umusa, Nago
+81 8052328552

Halal Restaurant

Yamabuki
1-7-19 Ohigashi, Nago
+81 980543939
Reservation Required

Food Map



Vegetarian Restaurant

Chura Nuhji
1st floor The Ritz-Carlton, Okinawa
1343-1 Kise, Nago
+81 980435555

Sakura Shokudo
Nago Municipal Market
1-4-11 Gusuku, Nago
+81 980543939

Local Food Restaurant

Nago Steak Okinawa (Beef Steak)
5-8-20 Agarie, Nago
+81 980439275

Matayoshi Kanko Noen Restaurant
(Farm-to-table cuisine)
1-23-1 Okita, Nago
+81 980531929

Teppanyaki Asahi (Nagoshi
Ominami) Steak House
2-1-42 Ominami, Nago
+81 980540677

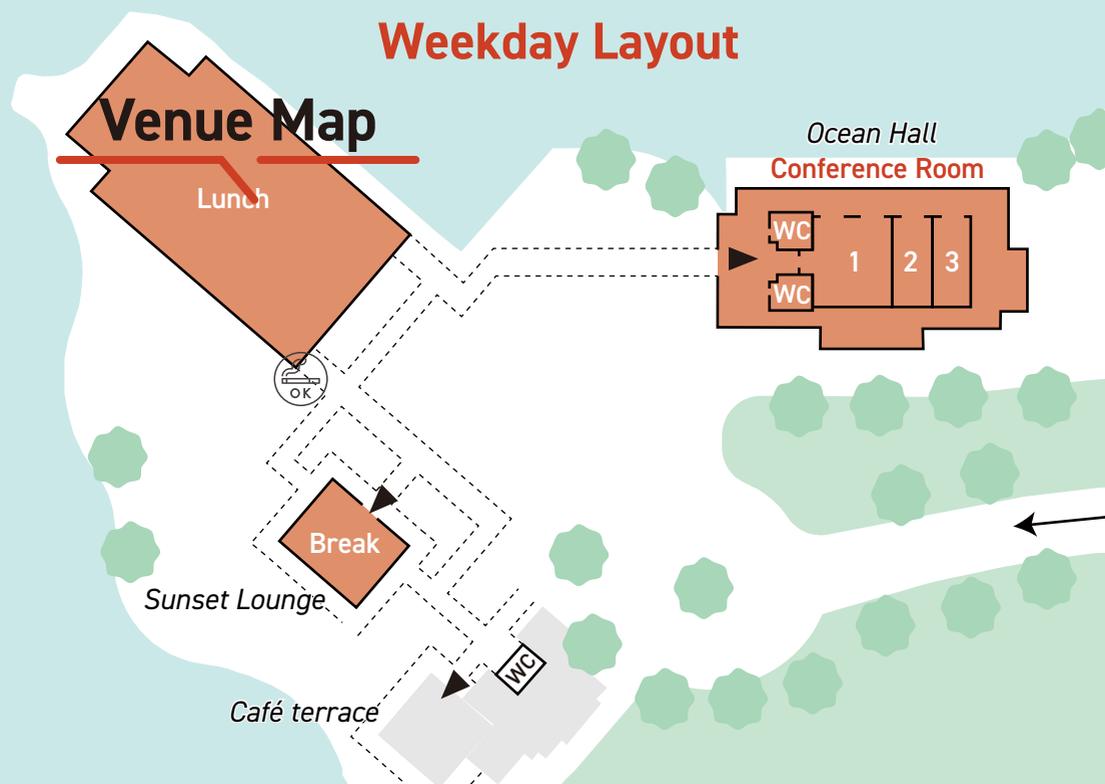
Shimaakari Nago (Okinawa
Cuisine, Izakaya Style Restaurant)
96-1 Koki, Nago
+81 980542772

KOKI BEACH Seafood Restaurant
141 Koki, Nago
+81 9082937600

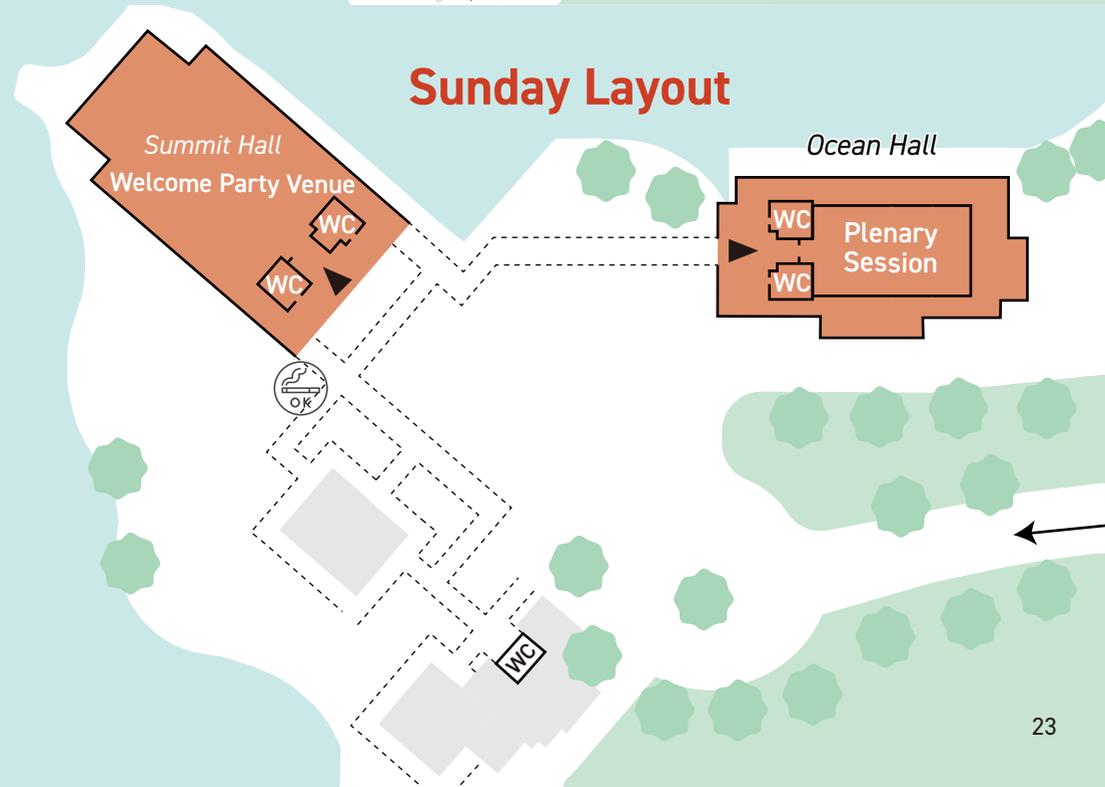
Colombin (Okinawa and
Western Cuisine)
71-1 Koki, Nago
+81 980523895

Weekday Layout

Venue Map



Sunday Layout



Transportation Information

For details and the latest information, please check the [TRISTAN2025 website](#).

Shuttle Bus Service (Nago City and Venue)

Main stops

1. Hotel Yugaf Inn Okinawa
2. Nago City Hall (Nago Shiyakusho Kitaguchi Bus Stop)
3. Green Rich Hotel Nago
4. Hotel Route Inn Nago
5. Best Western Okinawa Kouki Beach Hotel
6. Bankoku Shinryokan (Venue)

Basic schedule

- Weekday mornings (before the conference starts)
- Weekday evenings (after sessions end)

Departure rule

When staff are no longer present, the bus has already departed. Please also check the spreadsheet for real-time updates.

Public buses are also available along similar routes, running approximately every 30 minutes. For detailed timetables and route information, please check the conference website or Google Maps.



Shuttle Details

Sunday, 22nd

- Venue → Nago (after Welcome Party)

Monday, Tuesday, Thursday, Friday

- **Route 1** (2 buses): Yugaf Inn hotel (7:30) → Route Inn hotel (7:45) → Best Western hotel (8:05) → Venue (8:15)
- **Route 2** (1 bus): City Hall (7:30) → Green Rich hotel (7:35) → Route Inn hotel (7:45) → Best Western hotel (8:05) → Venue (8:15)

Wednesday (Daytrip)

- Nago (9:00) → Churaumi Aquarium (10:15)
- Venue (9:10) → Churaumi Aquarium (10:15)

Thursday Evening (Gala Dinner)

- Nago (17:25) → Venue (18:15) [Mainly for accompanying guests]
- The Moon Beach Museum Resort (Gala Dinner venue) → Bankoku Shinryokan / Nago

Bus stop info



Please check the arrival times at each bus stop from the QR code above.

Rental Car Use

The venue provides 130 parking spaces for visitors. Please inform gatekeepers that you are attending the TRISTAN conference.



- Drunk driving is **STRICTLY PROHIBITED** in Japan. Even a small amount of alcohol can result in severe penalties.
- Follow all traffic signs, speed limits, and road rules.
- Drive on the **left side** of the road.

Transportation Between Nago and Naha Airport

Public buses are also available. For detailed timetables and route information, please check the conference website or Google Maps.

Sunday, 22nd

- Departure: Naha Airport at 12:45 → Bankoku Shinryokan (Venue) at 14:00
- Staff will be waiting at the arrival lobby to guide you to the bus.

Saturday, 28th

- 10:05 - Hotel Yugaf Inn Okinawa
- 10:15 - Nago City Hall (Nago Shiyakusho Kitaguchi Bus Stop)
- 10:20 - Green Rich Hotel Nago
- 10:30 - Hotel Route Inn Nago
- 10:50 - Best Western Okinawa Kouki Beach Hotel
- 12:00 - Arrival at Naha Airport

Welcome to Okinawa!



Discovering Okinawa: A Blend of History, Culture, and Nature

Okinawa, positioned at the southernmost point of Japan, comprises over 150 islands scattered across the East China Sea. Known for its subtropical climate, diverse ecosystems, and unique cultural heritage, Okinawa offers an exceptional setting for both scholarly activities and leisurely exploration. As you attend this international conference, Okinawa invites you to immerse yourself in its rich history, vibrant traditions, and breathtaking natural beauty.

Historical and Cultural Heritage

Okinawa was once home to the Ryukyu Kingdom (1429–1879), an independent realm that maintained active diplomatic and commercial ties with China, Korea, and Southeast Asia. This history is reflected in the island's architecture, language, and customs. Shuri Castle, the former royal palace located in Naha, served as the political and cultural center of the Ryukyu Kingdom. Although significantly damaged by fire in 2019, Shuri's ongoing restoration showcases traditional Okinawan carpentry techniques and offers a window into the kingdom's past grandeur.

Beyond Shuri, numerous Gusuku sites and sacred landscapes have earned UNESCO World Heritage status. These include Nakijin Castle Ruins, Katsuren Castle Ruins, and Sonohyan-utaki Stone Gate, each embodying distinctive features of Ryukyuan stone masonry and spiritual practices. Visiting these locations provides insight into how Okinawans historically blended spirituality, governance, and community life.

Breathtaking Natural Landscapes

Okinawa's environment ranges from lush subtropical forests to crystal-clear waters punctuated by vibrant coral reefs. The northern region of Okinawa Island, known as Yanbaru, remains one of Japan's last great subtropical forests. It hosts endemic species such as the Okinawa rail (Yanbaru kuina) and the Ryukyu long-tailed giant rat. For hikers and birdwatchers, Yanbaru's trails reveal a landscape teeming with biodiversity.

The Kerama Islands, a short ferry ride from Okinawa Island, feature some of the world's clearest waters and thriving coral ecosystems. Snorkelers and scuba divers can encounter sea turtles, manta rays, and more than 250 species of coral. Closer to Naha, Cape Manzamo offers dramatic cliffs and photo-worthy sunsets, while Nirai Kanai Bridge on the southern coast presents sweeping ocean vistas that have inspired local legends.

Culinary Traditions and Local Flavors

Okinawan cuisine reflects its agrarian and maritime heritage, characterized by healthful, flavorful dishes that incorporate local ingredients. A signature staple is Okinawa soba, thick wheat noodles served in a lightly seasoned broth topped with tender slices of pork belly (soki). Another famous dish, goya champuru, combines stir-fried bitter melon (goya), tofu, egg, and pork, balancing flavors and nutrients.

Seafood also plays a central role. Mozuku seaweed and taco rice (ground beef seasoned with taco spices over rice, a legacy of the U.S. military presence) highlight Okinawa's capacity to adapt and innovate. Okinawans also enjoy awamori, a distilled rice spirit brewed exclusively in the prefecture. Sampling local fruits—such as sugar apples, dragon fruit, and the purple sweet potato known as beni-imo—offers additional insight into the islands' agricultural diversity.

Warmth of the Okinawan People and Festivals

Okinawans are celebrated for their hospitality and resilience. The islands' dialects, collectively referred to as Ryukyuan languages, differ significantly from standard Japanese, reflecting centuries of independent development. Celebrations and festivals remain integral to island life; for example, the Eisa festival, held in the summer, features dynamic drumming, colorful costumes, and synchronized dance routines that honor ancestral spirits.

Traditional crafts—such as bingata (resist-dyed textiles), Ryukyu glass, and awamori pottery—can be seen in local workshops and markets. Engaging with artisans provides a deeper appreciation of Okinawa's dedication to preserving cultural techniques passed down through generations.

An Ideal Venue for Academic Exchange and Cultural Enrichment

Okinawa offers an unparalleled combination of history, nature, and hospitality that enriches the academic experience. Whether you find inspiration exploring centuries-old gusuku ruins, snorkeling among coral reefs, or sampling regional dishes, Okinawa will leave a lasting impression. We hope you seize the opportunity to extend your stay, absorb local traditions, and forge new connections both within and beyond the conference venue. Enjoy the blend of scholarly dialogue and cultural discovery that only Okinawa can provide.



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Notes

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TRISTAN XII

OKINAWA JAPAN 22 - 27 June 2025

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We gratefully acknowledge the cooperation of the following organization in supporting TRISTAN 2025: Association for Planning and Transportation Studies (一般社団法人 計画・交通研究会) and Okinawa Convention & Visitors Bureau (OCVB)

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