

MIWA 2026 Bangkok

Mobility Interaction for a World in Action

JULY 21–23, 2026

Chulalongkorn University

Centennial Memorial Building, Faculty of Engineering

MIWA is a global forum launched from Asia to explore how mobility interacts with people, infrastructure, and services to create value for society.

Moving beyond purely technology-driven perspectives, MIWA focuses on practical, scalable, and sustainable mobility solutions—shaped by local contexts, constraints, and ingenuity.

Bringing together leaders from academia, industry, and government, MIWA connects global innovation with real-world implementation, creating a platform to share ideas, test solutions, and shape the future of mobility.

Fostering the next generation of mobility professionals and researchers by promoting collaboration and networking across academia and industry.



Day 1: Tuesday, July 21

Technical Tour to CAV Sandbox in Wangchan Valley

The tour will visit the Testing Center for Connected and Automated Vehicles (T-CAVs) at the Eastern Economic Corridor of Innovation (EECi), Wangchan Valley, Rayong Province — Thailand's first dedicated CAV sandbox area.

- Open Air Demonstration of Autonomous Vehicle Technology at TCAVs
- Motor testing laboratory (HIBA), Automated Storage and Retrieval System (ASRS/AMR), and robotics laboratory
- Drone technology, Inspection Robot and Sandbox testing ground

Day 2: Wednesday, July 22

2nd Floor, Room 201A

08:30-	Check-in
09:00 - 09:20	Opening
09:20 - 10:00 (40min)	Keynote 1: Thailand Autonomous driving technology landscape Dr. Pasan Kulvanit Ministry of Higher Education, Science, Research, and Innovation (MHESI)
10:00 - 10:15	Break (4th Floor)
10:15 - 11:45 (90min)	Session 1: AI Shaping the Future of Mobility Systems
11:45 - 12:30 (45min)	Sponsor Presentations • DENSO CORPORATION • TOYOTA TSUSHO SYSTEMS (THAILAND) Co., Ltd. • Toyota Tsusho Nexty Electronics (Thailand) Co., Ltd. - Toyota Tsusho Denso Electronics (Thailand) Co., Ltd.
12:30 - 12:45	Photo Session
12:45 - 14:00 (75min)	Lunch (4th Floor) Poster Session & Exhibits (13:15 - 13:45)
14:00 - 15:30 (90min)	Session 2: Software-Defined Vehicles and the Transformation of Mobility
15:30 - 15:45	Break (4th Floor)
15:45 - 17:15 (90min)	Session 3: Better Future with Data-Driven Urban Mobility

Day 3: Thursday, July 23

2nd Floor, Room 201A

08:30-	Check-in
09:00 - 10:30 (90min)	Session 4: Mobility Innovation: Opportunities, Risks, and Societal Impacts
10:30 - 10:45	Break (4th Floor)
10:45 - 11:25 (40min)	Keynote 2: Perspective on Asia's evolving role in transportation innovation, sustainability, and regional collaboration based on China's experiences Professor Huapu Lu, Tsinghua University
11:25 - 12:45 (80min)	Lunch (4th Floor) Exhibits Sponsor-Student Networking Session (4th Floor, Room 402) • TOYOTA SYSTEMS CORPORATION
12:45 - 14:15 (90min)	Session 5: Context-Responsive Mobility Solutions: Innovation from Asia
14:15 - 14:30	Break (4th Floor)
14:30 - 15:40 (70min)	Student Group Presentations (5min + 3 min Q&A, 5 groups)
15:40 - 15:50	Break (4th Floor)
15:50 - 17:20 (90min)	Session 6: Roundtable: Asia's Role in Driving Mobility Innovation
17:20 - 17:30	Closing

MIWA website is available !

<https://www.gremo.mirai.nagoya-u.ac.jp/en/event/miwa2026-bkk.html>

✉ gremo_info@mirai.nagoya-u.ac.jp



MIWA website

Keynote Sessions

Keynote 1

Thailand Autonomous driving technology landscape

As global transportation shifts toward automation, Thailand stands at a critical juncture in adopting Connected and Automated Vehicle (CAV) technologies. This presentation provides a comprehensive overview of the current CAV landscape in Thailand, beginning with an introduction to our institute's latest innovations and strategic initiatives in robotics and autonomous systems.

We will explore the driving forces accelerating CAV adoption in the kingdom, specifically addressing urgent socio-economic factors such as an aging society and the demand for heightened logistical efficiency. The discussion will highlight the Thai government's current roadmap and its strategic 3-year outlook, focusing on the highly anticipated adoption of Level 4 (L4) regulations tailored with a specific Thai environment annex.

Finally, the session will map out the local ecosystem, showcasing Thailand-based institutions and companies pioneering these technologies. By examining real-world, localized CAV deployments currently operating in closed-area campuses and industrial factories, this talk will deliver a realistic assessment of Thailand's technological readiness and the collaborative path forward for the nation's autonomous future.



Dr. Pasan Kulvanit

Director, Institute of Innovative Robotics and Autonomous Vehicles
Department of Science Service,
Ministry of Higher Education, Science, Research, and Innovation (MHESI)

Keynote 2

Perspective on Asia's evolving role in transportation innovation, sustainability, and regional collaboration based on China's experiences

Currently in Asia, metropolitan traffic problems still pose serious challenges, while urban travel demands are shifting toward high quality, diversity, and convenience. Moreover, transportation should serve as an engine for urban economic growth. Fortunately, the development of AI technologies offers new possibilities. By leveraging these tools, green, intelligent, and integrated systems become feasible, allowing us to optimize the entire network and solve existing issues. This paper provides a perspective and analysis of these trends.



Professor Huapu Lu

Tsinghua University
Former Director, Institute of Transport Engineering, Tsinghua University

Session 1

AI Shaping the Future of Mobility Systems

AI is transforming how mobility systems are designed, managed, and experienced. This session focuses on the growing adoption of end-to-end AI approaches in automated driving and their implications for safety, system design, and real-world deployment. It also highlights emerging requirements for infrastructure, including V2X integration and data-driven environments.

* Moderator



Cooperative Intelligence for Autonomous Driving: From V2X to Human-Agent Interaction

Manabu Tsukada*

Associate Professor, Graduate School of Information Science and Technology
The University of Tokyo



Beyond the First City: What It Takes to Scale Autonomous Driving to New Places

Patiphon Narksri

Engineer, Feature Development Division
TIER IV, Inc.



Operating Robotaxi as a True Business: What Does it Entail

Ann Yu Shi

Vice President, Strategy and Business Development
Pony.ai



Accelerating L4 Autonomous Logistics: Commercial Deployment and Localized Ecosystems in Thailand and world

Yuchen Zhang

Regional Managing Director
Zelos Technology (Singapore) Pte. Ltd.

Session 2

Software-Defined Vehicles and the Transformation of Mobility

Software-defined vehicles (SDVs) are shifting mobility from a hardware-centric paradigm to a software-driven, service-oriented ecosystem. This session explores how SDVs enable new functionalities, continuous system evolution, and new business models, while reshaping the structure of the automotive and mobility industries.

* Moderator



Surviving the SDV Shift: Forging a Japan-Thailand Co-Creation Paradigm **Tsuguo Nobe***

Visiting Professor, Global Research Institute for Mobility in Society (GREMO)
Institutes of Innovation for Future Society
Nagoya University



Accelerating Mobility Innovation through Open SDV **Hiroaki Takada**

Professor, Global Research Institute for Mobility in Society (GREMO)
Institutes of Innovation for Future Society
Nagoya University



Software Defined Vehicle: From vertical integration to scalable software defined platform **Venkatesh Prakash**

Business Solution Architect
Elektrobit India



Transition of technical architecture towards a software driven, service-oriented system **Nuksit Noomwongs**

Assistant Professor
Smart Mobility Research Center (Smart MOBI), Faculty of Engineering
Chulalongkorn University

Session 3

Better Future with Data-Driven Urban Mobility

This session explores how digital twins enable new approaches to understanding, planning, and operating urban mobility systems. It focuses on how data-driven insights can reshape decision-making beyond traditional optimization.

* Moderator



Innovation-as-a-Service: Building Smart Cities That People Actually Want to Live In **Non Arkaraprasertkul***

Senior Expert
Digital Economy Promotion Agency (DEPA) of Thailand



From Statistics to Mobility Intelligence: Applying Call Detail Records to Advance Tourism Planning in Thailand **Nattapong Punnoi**

Assistant Professor, Deputy Director, Center of Excellence in Social Design
Dean Assistant, Faculty of Architecture
Chulalongkorn University



Data-Driven Simulation and Visualization for Urban Mobility Analysis **Nobuo Kawaguchi**

Professor
Executive Director, Global Research Institute for Mobility in Society (GREMO)
Institutes of Innovation for Future Society
Nagoya University



Data-Driven Planning for Sustainable Public Transport **Preechaya Saraphol**

Transportation Technical Officer, Passenger Transport Bureau
Department of Land Transport, Ministry of Transport

Session 4

Mobility Innovation: Opportunities, Risks, and Societal Impacts

Mobility innovation brings both opportunities and challenges. This session explores its broader societal impacts, including potential risks, equity concerns, and long-term implications for cities and communities.

* Moderator



Online presentation



Successes, failures, and futures of shared micro-mobility services in Bangkok **Saroch Boonsiripant**

Associate Professor, Department of Civil Engineering, Faculty of Engineering
Kasetsart University



Local Mobility Innovations in Costa Rica's Capital City: The Role of Popular Transport when Public Transportation Alternatives are Abundant and Scarce **Ariana Salas-Castillo**

Postdoctoral Research Scientist, Columbia Climate School
Next-Gen Scholar of the Partnership for Research on Informal and Shared Mobility



Mobility Innovation beyond Technology: Work, Accountability, and Justice **Yosuke Uchiyama***

Research Fellow, Transportation Institute
Chulalongkorn University

Session 5

Context-Responsive Mobility Solutions: Innovation from Asia

This session highlights practical and context-responsive mobility solutions emerging from Asia. It focuses on how local knowledge, constraints, and ingenuity shape implementable and sustainable approaches.

 Online presentation



Implementing Level 4 Automated Driving for a University Shuttle Bus Service

Kimihiko Nakano

Professor, Harmonic Mobility Research Center (ITS Center)
Institute of Industrial Science, The University of Tokyo



MuvMi: Local Integrity meets Global Mindset for a new era of urban mobility

Tawit Sangveraphunsiri

Head of Operations, Urban Mobility Tech (MuvMi)



Bringing Japanese-Quality On-Demand Mobility Solutions to ASEAN

Kee Chong Yan

Senior Leader, Nadi Willer Sdn. Bhd.



Operating Mobility in Transition: Insights from Asia-Pacific Shared and On-Demand Systems

Yuhan Xiao 

Training & Research Manager - Asia-Pacific Office
UITP Asia-Pacific Office



Moderator

Manabu Umeda

Project Researcher
Mobility Innovation Collaborative Research Organization (UTmobl)
The University of Tokyo

Session 6

Roundtable: Asia's Role in Driving Mobility Innovation

This roundtable brings together diverse perspectives to discuss Asia's role in shaping the future of mobility. It explores how regional experiences can contribute to global mobility innovation.

Moderator & Panelist



Sorawit Narupiti

Associate Professor, Department of Civil Engineering
Faculty of Engineering
Chulalongkorn University

Panelists



Takayuki Morikawa

Professor Emeritus,
Global Research Institute for Mobility in Society (GREMO)
Institutes of Innovation for Future Society
Nagoya University



Kimihiko Nakano

Professor
Harmonic Mobility Research Center (ITS Center), Institute of Industrial Science
The University of Tokyo



Huapu Lu

Professor, Tsinghua University
Former Director, Institute of Transport Engineering, Tsinghua University

Mobility Student Workshop

– Transdisciplinary Dialogue in Bangkok

Bringing together graduate students from Thailand and Japan, this workshop unites participants from diverse disciplines to tackle real-world urban mobility challenges in Bangkok. Through field research, teams will gain firsthand insight into local conditions and propose solutions.

Highlight: Students will have opportunities to interact with MIWA participants through joint programs, and receive direct feedback on their group presentations from international experts.

July 20

Orientation, Group Work (on-site)

*Joint Session with MIWA 2026

July 21Technical tour to CAV Sandbox to “Wangchan Valley” Smart City*
Fireside Chat for CU students**July 22**

Plenary Sessions*, Poster Session*, Group Work (on-site)

July 23

Plenary Sessions*, Group Work, Group Presentations*



TMI website



The Graduate Program for Lifestyle Revolution based on Transdisciplinary Mobility Innovation (TMI) at Nagoya University is a five-year doctoral education program that cultivates future leaders capable of creating innovative mobility solutions for society.

Unlike conventional engineering programs, TMI integrates engineering, information science, law, economics, social sciences, environmental studies, and the humanities to address complex societal challenges. Students learn not only how to develop advanced mobility technologies, but also how to translate them into real social value through collaboration with experts from diverse disciplines and industry partners.

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