

# Korea-EU Horizon Europe Researchers Networking Forum

on Advanced Mobility



October 15-16, 2025



The Standard, Bd Roi Albert II 30,  
1000 Bruxelles



AGENDA

| Time  | Wednesday (15 Oct)                                                          | Thursday (16 Oct)                                 |
|-------|-----------------------------------------------------------------------------|---------------------------------------------------|
| 9:00  | Opening & Pitch Session<br>(9:00~11:00)                                     | Consortium Formulation Session 1<br>(9:00~10:30)  |
| 9:30  |                                                                             |                                                   |
| 10:00 |                                                                             |                                                   |
| 10:30 |                                                                             | Break (10:30~11:00)                               |
| 11:00 | Break (11:00~11:30)                                                         | KR 7~9(11:00~12:15)                               |
| 11:30 | Speed Dating (11:30~12:30)                                                  |                                                   |
| 12:00 |                                                                             | EU 13-16 (12:15~12:35)                            |
| 12:30 | Networking Lunch<br>(12:30~13:30)                                           | Networking Lunch (12:35~13:30)                    |
| 13:00 |                                                                             |                                                   |
| 13:30 | KR 1~4 (13:30~14:30)                                                        | EU 17~19 (13:30~14:30)                            |
| 14:00 |                                                                             | -                                                 |
| 14:30 | Break (14:30~15:00)                                                         | Break (14:30~15:00)                               |
| 15:00 | EU 1~6 (15:00~16:00)                                                        | Consortium Formulation Session 2<br>(15:00~16:30) |
| 15:30 |                                                                             |                                                   |
| 16:00 |                                                                             |                                                   |
| 16:30 | Break (16:30~17:00)                                                         | Wrap up (16:30~17:00)                             |
| 17:00 | EU 7~12 (17:00~18:00)                                                       |                                                   |
| 17:30 |                                                                             |                                                   |
| 18:00 | Break (18:00~19:00)                                                         |                                                   |
| 18:30 |                                                                             |                                                   |
| 19:00 | Networking Dinner (19:00~)<br>※ The Chairman, Bd Bauduin 30, 1000, Brussels |                                                   |
| 19:30 |                                                                             |                                                   |
| 20:00 |                                                                             |                                                   |

STEERING COMMITTEE

\* The list is arranged in alphabetical order by first name.



 **Eui Young Kim**

**Assistant Professor I Design for Dynamic Stability**  
**Department of Design, Organization, and Strategy (DOS)**  
**Faculty of Industrial Design Engineering**  
**Board Member, Delft Young Academy (DYA)**  
**Co-Director, Automated Mobility Lab, Delft Design Lab (DDL)**  
Delft University of Technology (TU Delft)

Biography

JDr. Eui young Kim is Assistant Professor of Design for Dynamic Stability and Co-director of the Automated Mobility Lab (DDL) in the Faculty of Industrial Design Engineering at TU Delft. He is the Designing for Impacting Autonomous Processes theme leader of the Accelerating Innovation project funded by the Royal Schiphol Group and the Ministry of Economic Affairs in the Netherlands, and also coordinates the SESAME program with Airbus North America and Georgia Tech. Previously, he was a lecturer and postdoctoral researcher at the Jacobs Institute for Design Innovation, UC Berkeley, where he also served as Research Director of BRAVO (Berkeley Research for Autonomous Vehicle Opportunities). He holds a PhD in Mechanical Engineering from UC Berkeley and an MS in Engineering Design Innovation from Northwestern University. Before entering academia, he worked in strategic marketing at Samsung Electronics. Dr. Kim’s research focuses on future mobility, aviation, design-driven innovation, user-centered roadmapping, and engineering design. He has participated in several Horizon Europe proposals as coordinator or partner. His work has been recognized with several international awards, including the AutoUI Honorable Mention (2024), ASME DTM Best Paper Awards (2020; 2016), and ICED Reviewers’ Favorite Awards (2015; 2013).



Min Son

Research Associate

University of the Bundeswehr Munich

Biography

Dr. Min Son is a research associate at the Institute of Thermodynamics, Universität der Bundeswehr München, Germany. He received his Ph.D. in Aerospace and Mechanical Engineering from Korea Aerospace University in 2017. Prior to his current position, Dr. Son worked for three years as a postdoctoral researcher at the Institute of Space Propulsion, German Aerospace Center (DLR). Since 2023, he has been managing the Advanced Mobility-Technology Expert Network (AMExNet) to organize the Korean expert network in Europe. His research interests include aerospace propulsion systems, air mobility, and space mobility.

Research Area

- Aerospace Propulsion, Thermodynamics, Combustion, Space Mobility

Personal link

- [www.unibw.de/min.son](http://www.unibw.de/min.son)

INVITED PARTICIPANTS

\* The list is arranged in alphabetical order by first name.

|    | Full Name                 | Position                                                                 | Organization                                                   | Cntry | Page |
|----|---------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|-------|------|
| 1  | Boglarka Eisinger Balassa | Habilitated Associate Professor                                          | Széchenyi István University                                    | HU    | 7    |
| 2  | Daesub Yoon               | Director                                                                 | ETRI                                                           | KR    | 8    |
| 3  | Davide Andrea Guastella   | Associate Professor                                                      | Aix-Marseille University                                       | FR    | 9    |
| 4  | Emilija Stojmenova Duh    | Associate Professor                                                      | University of Ljubljana, Faculty of Electrical Engineering     | SI    | 11   |
| 5  | Fernando Garcia Fernandez | Professor                                                                | Universidad Carlos III de Madrid                               | ES    | 12   |
| 6  | Galia Weidl               | Professor: Connected Urban Mobility – Intelligent Traffic Infrastructure | TH Aschaffenburg, Competence Center of Artificial Intelligence | DE    | 13   |
| 7  | Ha Yoon Song              | Professor                                                                | Hongik University                                              | KR    | 15   |
| 8  | Hae-In Lee                | Lecturer in Autonomous Systems                                           | Cranfield University                                           | UK    | 16   |
| 9  | Jaehyun (Jason) So        | Associate Professor                                                      | Ajou University                                                | KR    | 17   |
| 10 | Jeongyun Kim              | Assistant Professor                                                      | Seoul National University of Science and Technology            | KR    | 19   |
| 11 | Jinwoo Lee                | Associate Professor                                                      | Korea Advanced Institute of Science and Technology             | KR    | 22   |
| 12 | Marcin Paprzycki          | Associate Professor                                                      | Systems Research Institute Polish Academy of Sciences          | PL    | 23   |
| 13 | Marilena D. Pavel         | Associate Professor                                                      | Delft University of Technology                                 | NL    | 24   |
| 14 | Mark Colley               | Assistant Professor                                                      | University College London                                      | UK    | 25   |

|    | Full Name                       | Position                                                                          | Organization                                                                          | Cntry | Page |
|----|---------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|------|
| 15 | Mark Spiller                    | Research Associate                                                                | German Aerospace Center (DLR)                                                         | DE    | 27   |
| 16 | Minje Choi                      | Research Professor                                                                | University of Seoul                                                                   | KR    | 28   |
| 17 | Namhoon Cho                     | Assistant Professor                                                               | Seoul National University                                                             | KR    | 30   |
| 18 | Nicola Colaninno                | Assistant Professor                                                               | Polytechnic University of Milan, Department of Architecture and Urban Studies (DASTU) | IT    | 31   |
| 19 | Oscar Oviedo-Trespalacios       | Professor and Academic Portfolio Director – Future of Mobility (Extension School) | Delft University of technology                                                        | NL    | 33   |
| 20 | Rosen Dimov                     | Assoc Prof, Innovation Department Manager                                         | emotion3D GmbH                                                                        | DE    | 34   |
| 21 | Seongho Jeong                   | Postdoctoral researcher                                                           | University of the Bundeswehr Munich                                                   | DE    | 36   |
| 22 | Seunghyeon Lee                  | Associate Professor                                                               | University of Seoul                                                                   | KR    | 37   |
| 23 | Sol Hee Yoon                    | Assistant Professor                                                               | Seoul National University of Science and Technology                                   | KR    | 40   |
| 24 | Soyeon Kim                      | Assistant Professor                                                               | University of Warwck                                                                  | UK    | 41   |
| 25 | Suzanne Hiemstra-van Maastricht | Assistant Professor & Director of the Seamless Personal Mobility Lab              | Delft University of Technology                                                        | NL    | 42   |
| 26 | Thomas Adam                     | Professor                                                                         | University of the Bundeswehr Munich                                                   | DE    | 44   |
| 27 | Tien Van Do                     | Professor                                                                         | Budapest University of Technology and Economics                                       | HU    | 45   |
| 28 | Yong Hoon Kim                   | Associate Professor                                                               | University of Windsor                                                                 | CA    | 46   |
| 29 | Youngmin Kim                    | Senior researcher                                                                 | KICT (Korea Institute of Civil Engineering and Building Technology)                   | KR    | 47   |



## Boglarka Eisinger Balassa

**Habilitated Associate Professor**  
Széchenyi István University

### Biography

Since 2009, I have been working as an Associate Professor at Széchenyi István University, where my teaching and research activities focus on consumer behaviour, service and stakeholder management, as well as digitalization and sustainability. I hold a PhD and have also completed my habilitation, which further strengthened my academic and research profile. I have authored more than 100 scientific publications, 46 of them in international journals. I have received several research grants and fellowships, and I have supervised over 100 theses and 24 student research projects, many of which achieved national recognition.

In recent years, my research has increasingly concentrated on sustainable and smart mobility, particularly in the field of Connected, Cooperative and Automated Mobility (CCAM). I am especially interested in the acceptance of transport systems by users, strengthening safety and resilience, and exploring the role of digital technologies in improving service quality.

Széchenyi István University has strong expertise in transportation and vehicle engineering, supported by the high-level research conducted at the Vehicle Industry Research Center. Here, I lead a research group focusing on the analysis of mobility services and user processes, as well as on the societal embedding of vehicle industry innovations. Through international cooperation – including Horizon-related activities and Erasmus mobility partnerships – I have gained extensive experience in actively participating in European research networks.

My current aim is to contribute, together with my research group, to shaping the future of European mobility, with a particular emphasis on CCAM and sustainable transport services.

### Research Area

- My main research fields are consumer behaviour in mobility contexts, service and stakeholder management in transport systems, and the digitalization of mobility processes.
- Within Horizon Europe Cluster 5, I am particularly focused on Connected, Cooperative and Automated Mobility (CCAM).
- I address issues of user acceptance, trust, and safety, as well as the integration of digital technologies into mobility services.



- At the Vehicle Industry Research Center of Széchenyi István University, I lead a multidisciplinary research group.
- The uniqueness of our work lies in combining social science and engineering perspectives.
- Our specialization includes human-machine interaction, resilience of automated systems, and decision-making in smart mobility services.
- I have authored more than 100 publications, 46 of them in international journals.
- My research excellence is reflected in a Hirsch index of 7, several fellowships, and international guest editorships.
- The focus is on the socially embedded and sustainable deployment of CCAM technologies.
- My aim is to contribute, with my team, to shaping the future of European mobility.

Personal link

- LinkedIn**
- <https://www.linkedin.com/in/boglárka-eisinger-balassa-ph-d-habil-68207470/>
- Google Scholar**
- <https://scholar.google.com/citations?user=lnkcScEAAAJ&hl=hu&oi=ao>
- Scopus ID**
- <https://www.scopus.com/authid/detail.uri?authorId=57205680291>

Call topic

- 02, 05, 06, 07, 08, 10, 11, and 12



Daesub Yoon

Director  
ETRI

Biography

Daesub Yoon received his M.S. and Ph.D. degrees in Computer Science and Software Engineering from Auburn University, USA. From 2001 to 2005, he served as a Research Assistant at the Intelligent & Interactive Systems Laboratory at Auburn University. In 2005, he joined the Electronics and Telecommunications Research Institute (ETRI), Korea. His research interests include assistive technology, eye tracking, attentive user interfaces, mental workload, and human factors in automated driving vehicles and smart factories.

He is currently leading the Mobility UX Research Division at ETRI. The mission of the Mobility User Experience Research Section is to identify societal and technological challenges in current and future mobility and to provide core Mobility UX technologies through mental model-based human factor research and UI/UX design for various mobility users.

His team has carried out numerous international collaborative projects. The AI-PRISM project, under the Horizon Europe program, will conclude at the end of this year. In this project, his team is developing interaction technologies that enable human workers to collaborate effectively with robots in smart factory environments. The OPTIMUM project, under the Eureka program, was completed in 2022. In this project, his team developed safe interaction technologies for human operators working alongside machines in smart factories. The OPTIMUM project received the ITEA Award of Excellence 2022 for Exceptional Excellence.

He is also an adjunct professor at the National Center of Excellence in Software, Chungnam National University.

Research Area

Human vehicle interaction, driver behavior analysis, eyetracking, workload management, human cognition, advance driver assistance system, driver monitoring system, heuristic experimental study.

Personal link

- [www.linkedin.com/in/daesub-yoon](http://www.linkedin.com/in/daesub-yoon)

Call topic

- HORIZON-CL5-2026-01-D6-04: Integration of human driving behaviour in the validation of CCAM systems (CCAM Partnership) or related to human behaviour research



Davide Andrea Guastella

Associate Professor  
Aix-Marseille University

Biography

- From October 2024 - ASSOCIATE PROFESSOR, Université Aix-Marseille, Marseille, France.
- RESEARCH FELLOW, Université Libre de Bruxelles (ULB), Bruxelles, Belgium.

- RESEARCH FELLOW, Italian National Research Council, ICAR, Italy.
- PHD CANDIDATE at the Toulouse Institute of Computer Science Research (IRIT) of University of Toulouse III Paul Sabatier, member of the Cooperative Multi-Agent Systems team (Systèmes Multi-Agent Coopératifs, SMAC. Thesis title: “Dynamic Learning of the Environment for Eco-Citizen Behavior”.

### Project involvement

- [proposal under evaluation] MUTUAL (HORIZON-MISS-2025-04-CIT-02): Supporting the implementation of the Climate-Neutral and Smart Cities Mission (HORIZON-MISS-2025-04). Main contact person for Aix-Marseille University. Budget allocated: 250k€
- TULIPE (2024, 100k€): co-principal investigator, evaluate the impact of road works in urban traffic through simulation models and forecasting techniques
- TORRES (2023-2025): researcher, responsible for traffic modelling and simulation work packages
- NETTUNIT (2021-2022): researcher, development of a self-adaptive workflow engine for application in data exchange between Sicily and Tunisia in crisis management context
- HybridIoT (2017-2020): PhD candidate, development of a multi-agent system for estimating missing information in a large-scale sensor network. In 2021, financed by Toulouse Tech Transfer (12k€) to develop and deploy HybridIoT in the campus of the University Toulouse III – Paul Sabatier

### Research Area

#### Research themes:

- Data analysis
- Traffic modeling and simulation
- Optimization methods
- Emergency Workflow Management Systems
- Multi-Agent Systems

### Personal link

- [https://www.researchgate.net/profile/Davide-Guastella?ev=hdr\\_xprf](https://www.researchgate.net/profile/Davide-Guastella?ev=hdr_xprf)
- [www.linkedin.com/in/davide-andrea-guastella-a3846893](https://www.linkedin.com/in/davide-andrea-guastella-a3846893)

### Call topic



## Emilija Stojmenova Duh

**Associate Professor**

University of Ljubljana, Faculty of Electrical Engineering

### Biography

Emilija Stojmenova Duh, is an associate professor at the Faculty of Electrical Engineering, University of Ljubljana, and a former Minister of Digital Transformation. She leads the Public, Private, People Partnership Digital Innovation Hub (4P DIH), dedicated to enhancing digital competencies, sharing best practices, and fostering digital innovation at local, regional, and international levels. The Hub also supports governmental efforts to adapt regulations and open data to stimulate entrepreneurship. As the founder of Slovenia's national FabLab network, she has established a platform for technical prototyping, driving innovation and empowering local entrepreneurship. Between February 2018 and October 2019, she served as CEO of the Digital Innovation Hub Slovenia, and from 2014 to 2016, she led Demola Slovenia, a recognized best practice in innovation by the OECD and World Bank. She has coordinated numerous national and European R&D projects focused on digitalization for innovation. A longer version of her biography can be found here:

[https://en.wikipedia.org/wiki/Emilija\\_Stojmenova\\_Duh](https://en.wikipedia.org/wiki/Emilija_Stojmenova_Duh)

### Research Area

- Digital technologies
- Mobility of passengers
- CCAM
- Societal readiness
- AV acceptance and integration
- Passenger comfort
- In-vehicle interfaces
- HMI/HCI

### Personal link

#### University webpage:

- <https://lufe.org/reference/dr-emilija-stojmenova-duh/>

#### LinkedIn:

- <https://www.linkedin.com/in/emilija-stojmenova-duh-b62b821b/>

#### ResearchGate:

- <https://www.researchgate.net/profile/Emilija-Stojmenova>

### Call topic

- HORIZON-CL5-2026-05-D6-10: Enhanced resilience in multimodal passenger transport through digital technologies and generative and discriminative AI
- HORIZON-CL5-2026-10-D6-03: Generative AI for smarter CCAM: enhancing perception, decision-making, and validation
- HORIZON-CL5-2027-05-D6-04: Holistic solutions for CCAM integration in critical scenarios.
- HORIZON-CL5-2027-05-D6-08: Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity – Societal Readiness pilot



**Fernando Garcia Fernandez**

**Professor**

Universidad Carlos III de Madrid

### Biography

Fernando Garcia Fernandez, Professor at Universidad Carlos III de Madrid and head of the Autonomous Mobility and Perception Lab (AMPL). He is also a visiting professor at the Hague University of Applied Sciences and a member of the Board of Governors of the ITSS-IEEE Society, a former Member of the Transportation Electrification Community Steering Committee, and founder of Seevia, a Spin-off from Universidad Carlos III de Madrid. During his academic career, Fernando has published more than 100 articles in the Intelligent Transportation Systems field, has been granted 6 patents, he has also been an advisor to 19 PhD. Theses (9 finished and 10 under development) and acted as a visiting researcher at the University of New York at Buffalo, the University of Parma and Universidad de las Fuerzas Armadas de Ecuador. He was awarded several honours during this time, including the Best Spanish automotive research work in Spain by Fundación Barreríos in 2014 and the Young Professional Award by the IEEE-ITSS Society in 2021.

### Research Area

Autonomous driving, connected vehicles, data fusion, computer vision, lidar

### Personal link

- [https://scholar.google.com/citations?hl=en&user=LGQ-Go8AAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=en&user=LGQ-Go8AAAAJ&view_op=list_works&sortby=pubdate)
- <https://www.linkedin.com/in/nandogf/>

### Call topic

- HORIZON-CL5-2026-01-D6-13: Safety of Cyclists, Pedestrians and Users of Micromobility Devices
- HORIZON-CL5-2026-10-D6-03 : Generative AI for smarter CCAM: enhancing perception, decision-making, and validation
- HORIZON-CL5-2027-05-D6-04: Holistic solutions for CCAM integration in critical scenarios



**Galia Weidl**

**Professor: Connected Urban Mobility – Intelligent Traffic Infrastructure**

TH Aschaffenburg, Competence Center of Artificial Intelligence

### Biography

Galia Weidl received a MSc in Physics & Mathematics from St.Petersburg University, 1993; Licentiate degree in theoretical physics, Stockholm University, 1997; PhD in 2002 at Mälardalen University, Sweden. She was R&D-engineer at ABB Corporate Research, Sweden, 1997-2002; postdoc at Stuttgart University, Germany, 2003 – 2006 on AI-applications in engineering and medicine. R&D-engineer with Bosh Research until 2008 and with Daimler , Group Research, Automated driving, Mercedes as principal scientist in Driving Automation until 6/2021. She was the project leader of Work Package “Maneuver Recognition in highway traffic” in AMIDST, FP7 EU collaboration research projects with 7 partners (2014-2017)

Since 7/2021 she is a research professor on “Connected Urban Mobility – Intelligent Traffic Infrastructure” at THAB: University of Applied Sciences Aschaffenburg, appointed by the High-Tech-Agenda (HTA) Bavaria Germany. In this relation, THAB and Prof. Weidl have signed a long-term cooperation agreement in 2025 with the City of Aschaffenburg to create a Real City Living Mobility Lab (funded by HTA) as a Flagship project in the mobility network and research in Bavaria, Germany, press release: <https://www.th-ab.de/hochschule/aktuelles/presse/artikel/reallabor-mobilitaet-startet-als-deutschlandweiteinzigartiges-forschungsprojekt-in-aschaffenburg>.

& for better visibility & open to collaboration: registered at the Real-Labs Innovation Portal of the German Federal Ministry for Economic Affairs and Energy: <https://www.reallabore-innovationsportal.de/>

The vision of future R&D&Innovation projects has the practical goal to demonstrate, based on XAI platform, less disturbances in the traffic flow in the city and simultaneously ensuring better protection of the vulnerable road users, better environment & better quality of life in a livable city.

Currently, Prof. Dr. Weidl is involved in 4 research mobility projects (national and international), while supervising 4 PhD-students. She is an invited reviewer of the European Commission for the evaluation of project proposals and for on-going research projects on the topics: Transportation, Connected Cooperative Autonomous Mobility (CCAM) and Applications of Artificial Intelligence.

### Research Area

- Connected Urban Mobility - Intelligent Transportation Infrastructure
- Advanced Driver Assistance and Safety Systems, Driving Automation
- Industrial Process Analysis, Modelling and Diagnosis

Her special areas of interest (2000 – 2025) have been concerned with:

- \* Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for Connected, Cooperative Automated Mobility (CCAM)
- \* Representation, Modelling and Processing of Knowledge and Data
- \* Multi-sensor Information Extraction
- \* Cooperative Sensor Networks and Cooperative Perception for Preventive Road Safety
- \* Automated Analysis of Events (Reasoning under uncertainties) in large-scale processes and systems
- \* Applications of probabilistic causal models (object-oriented Bayesian Networks and Influence Diagrams) for Modeling and Analysis of Continuous and Discrete Industrial Processes

THAB in connection with the Mobility research professorship of Prof.Dr. Weidl has signed a cooperation agreement in 2025 with the City of Aschaffenburg, Department of City Development and Mobility. The research aim is to create a Real City Mobility Living Lab as a Flagship project, pursuing the mobility network and research in Bavaria, Germany. The practical goal is to demonstrate less traffic disturbances of the traffic flow in the city and better quality of life in a livable city for all citizens and road users.

She co-authored 29 industrial patents (<https://patents.google.com/?inventor=galia+weidl&oq=galia+weidl>) and ~60 scientific papers ([https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=galia+weidl&oq=](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=galia+weidl&oq=)) in peer reviewed journals and conferences

Any development of a product/platform for the Real City Mobility Living Lab will aim for scalability and transferability to other cities.

### Personal link

- [https://www.linkedin.com/posts/galia-weidl-02974628\\_smartcity-livinglab-urbanmobility-activity-7356979156045234177-vWSf?utm\\_source=share&utm\\_medium=member\\_desktop&rcm=ACoAAAXOAKEBOxvhDy1GBuXDexG9hgg8WGPf6pE](https://www.linkedin.com/posts/galia-weidl-02974628_smartcity-livinglab-urbanmobility-activity-7356979156045234177-vWSf?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAXOAKEBOxvhDy1GBuXDexG9hgg8WGPf6pE)
- [https://www.linkedin.com/posts/galia-weidl-02974628\\_artikel-activity-7360927959467057152-R2\\_](https://www.linkedin.com/posts/galia-weidl-02974628_artikel-activity-7360927959467057152-R2_)

P?utm\_source=share&utm\_medium=member\_desktop&rcm=ACoAAAXOAKEBOxvhDy1GBuXDexG9hgg8WGPf6pE

- <https://www.linkedin.com/in/galia-weidl-02974628/>
- <https://www.th-ab.de/hochschule/organisation/person/prof-dr-galia-weidl>

### Call topic

- HORIZON-CL5-2026-10-D6-02
- HORIZON-CL5-2026-10-D6-05
- HORIZON-CL5-2026-10-D6-06
- HORIZON-CL5-2026-10-D6-07
- HORIZON-CL5-2026-10-D6-08
- HORIZON-CL5-2026-10-D6-10
- HORIZON-CL5-2026-10-D6-11
- HORIZON-CL5-2026-10-D6-12



## Ha Yoon Song

**Professor**  
Hongik University

### Biography

Ha Yoon Song received his B.S. degree in Computer Science and Statistics in 1991 and received his M.S. degree in Computer Science in 1993, both from Seoul National University, Seoul, Korea. He received Ph.D. degree in Computer Science from University of California at Los Angeles, USA in 2001. From 2001 he has worked at Department of Computer Engineering, Hongik University, Seoul, Korea and is now a full professor. In his sabbatical year 2009, he worked at Institute of Computer Technology, Vienna University of Technology, Austria as a visiting scholar and in the year 2018, he worked at Free University Berlin as a visiting scholar. Prof. Song's research interests are in the areas of data science, mobile computing, application of machine learning, location based service and human mobility modeling, especially with the application of machine learning and deep learning.

### CAREER

- 2009.03 ~ 2010.02 Visiting Scholar, Institute of Computer Technology, TUWien, Vienna, Austria
- 2018.03 ~ 2018.08 Visiting Scholar, Free University Berlin, Germany

### Research Area

Human mobility pattern modeling, location prediction, Geopositioning data manipulation, AIoT for Location Based Service, etc.

### Personal link

- <https://edu.hongik.ac.kr/en/academics/intro-faculty-detail.do?mode=prof&deptCd=AAB120&S1=2001&S2=10015>

### Call topic



**Hae-In Lee**

**Lecturer in Autonomous Systems**  
Cranfield University

### Biography

Dr Hae-In Lee is a Lecturer in the Centre for Assured and Connected Autonomy, AI and Robotics & Space Theme. She is also a Course Director in Advanced Air Mobility Systems MSc. Prior to obtaining her PhD from the School of Aerospace Transport and Manufacturing at Cranfield University in 2019 she was awarded BSc and MSc degrees in aerospace engineering from the Korea Advanced Institute of Science and Technology in 2013 and 2015 respectively. She worked as a Research Fellow in Autonomous Systems and Artificial Intelligence before joining as a Lecturer in 2022. As an early-career academic, she is actively establishing a research group, ATM/UTM laboratory with digital twin capability. Among 8 research projects she has been involved so far, there have been two EU collaborative research projects on:

- U-AGREE: U-space Air and Ground Risk modEls Enhancement, funded by SESAR, 2025-2027;
- EuroDRONE: A European UTM testbed for U-space, funded by SESAR, 2018-2020.

### Research Area

The main research area is on networked control systems, advanced air mobility, and risk-aware control. On networked control systems theory, Dr Hae-In Lee has established a stability analysis framework bringing disk margin concepts to multi-agent systems, applying theory to practice in advanced air mobility systems. The UK's first digital twin airspace has been developed to validate

the theoretical frameworks in advanced air mobility. Her developments are in line with regulatory aspects in EU/UK airspace, based on active collaborations with CAA, EuroControl, and NATS. Key publications are:

- Communication RSSI prediction and validation framework for advanced air mobility, IEEE IWCMC, 2025
- A probabilistic–geometric approach for UAV detection and avoidance systems, Sensors, 2022
- Sample greedy based task allocation for multiple robot systems, Swarms, 2022
- EuroDRONE, A European unmanned traffic management testbed for U-space, Drones, 2022

### Personal link

- <https://profiles.cranfield.ac.uk/2172-hae-in-lee/>

### Call topic

- HORIZON-CL5-2026-10-D6-10: Enhanced resilience in multimodal passenger transport through digital technologies and generative and discriminative AI
- HORIZON-CL5-2027-06-D6-08: Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity – Societal Readiness pilot
- HORIZON-CL5-2027-06-D6-11: Enhancing Resilience and Accuracy in Positioning, Navigation, and Timing (PNT) Systems and e-conspicuity solutions



**Jaehyun (Jason) So**

**Associate Professor**  
Ajou University

### Biography

Dr. Jaehyun (Jason) So is an Associate Professor in the Department of Transportation System Engineering at Ajou University, Suwon, Republic of Korea, where he leads the Mobility Operation Design, Validation, and Enhancement Laboratory (“move lab”). His research group conducts a wide range of projects in Intelligent Transport Systems (ITS/C-ITS), Automated Vehicles (AV), Smart Mobility, and mobility data analytics. The move lab plays a leading role in multiple national AV Level 4 R&D programs, including testbed technology development and law/regulation compliance validation platform design, as well as regional and metropolitan Mobility-as-a-Service (MaaS) master planning, service design, and traffic safety decision-support solutions in collaboration with local governments and national institutes.

Before joining Ajou University, Dr. So worked for the Center of Smart City and Transport at the Korea Transport Institute (2016–2020), where he led major national smart city initiatives such as the Sejong and Busan national demonstrations and large-scale Smart Mobility/Parking technology R&D projects. Earlier, he spent four years abroad as a research scientist and lecturer at Florida Atlantic University (USA) and the Technical University of Munich (TUM, Germany). At TUM, he was awarded the prestigious Alexander von Humboldt Fellowship, receiving three years of research funding, and served as TUM's European Research Coordinator. In this role, he actively engaged in the EuroTech Universities Alliance, organizing research seminars involving TUM, the Technical University of Denmark (DTU), and Eindhoven University of Technology (TU/e), among others.

Dr. So has extensive experience in European research collaboration, having coordinated and led proposal development for multiple Horizon 2020 topics in cooperation with partners from Spain, Denmark, Israel, and Greece. He also contributed to Horizon 2020 VRU ITS and other mobility-related projects, participating in workshops and dissemination activities. These experiences have given him a deep understanding of Horizon Europe's research and innovation framework and collaborative ecosystem, surpassing that of many peers in Korea. Drawing on his international expertise, Dr. So continues to work closely with global partners to advance research in ITS/C-ITS, AV safety, smart mobility, and data-driven transport systems, and is committed to fostering stronger Korea–EU collaboration in future mobility research.

## Research Area

### Main Research Fields

- Autonomous Vehicle (AV) Test and Validation Technologies
- AV–Infrastructure Data Integration for Enhanced Traffic and Mobility Operations
- AI-Driven Perception and Decision-Making through AV and Digital Infrastructure Data Fusion and AI Learning
- Traffic and AV Simulations, including Digital Twin Development

### Major Korea National R&D Projects (current involvement)

- Development of Level 4/4+ AV Testbeds, Test/Validation Frameworks, and Technologies
- Development of Level 4/4+ Automated Service Utility Vehicles and Operational Technologies
- Development of Level 4/4+ Automated Police Patrol Vehicles and Operational Technologies
- Development of AI-Based Traffic Safety Indexing Algorithms through Multi-Source Transport Big Data Fusion

## Patents & Publications

### [Patents]

1. So, J. J. (2023). Apparatus and method for generating autonomous vehicle logic for traffic flow simulation. Korea Patent Application No. 10-2023-016324, filed November 22, 2023.
2. Jang, S., Kim, M., & So, J. J. (2025). Personal mobility. Korea Patent Application No. 30-2025-0029662,

filed July 29, 2025.

### [Software Registrations]

1. So, J. J. (2023). OpenSCENARIO macro–microsimulation conversion interface. Korea Copyright Commission Registration No. 135871-0005871, registered November 27, 2023.
2. So, J. J. (2024). Macro-simulator-based integrated analysis engine for autonomous driving scenarios in compliance with laws and regulations. Korea Copyright Commission Registration No. 135871-0005871, registered October 30, 2024.

### [Publications]

1. Oh, G., Yun, I., Lee, E., Jia, H., Ko, H., Kim, H., Cho, S., & So, J. J. (2024). Exploring driving parameter settings for autonomous vehicles: Considering travel efficiency and safety in urban traffic environments. *IEEE Transactions on Intelligent Vehicles*, 1–13. <https://doi.org/10.xxxx/xxxx>
2. Park, H., Kim, J., Kim, M., Yoon, J., Hwang, K., Park, J., & So, J. J. (2025). Traffic crash countermeasure recommendations using deep neural network: A decision support tool for traffic safety engineers. *IEEE Access*, 13, 53718–53730. <https://doi.org/10.xxxx/xxxx>

## Personal link

- <https://www.linkedin.com/in/ssojae82/>

## Call topic

- HORIZON-CL5-2026-10-D6-01 (Flagship-pilot: large-scale demonstrations of CCAM)
- HORIZON-CL5-2026-10-D6-03 (Generative AI for smarter CCAM: enhancing perception, decision-making, and validation)
- HORIZON-CL5-2027-05-D6-04 (Holistic solutions for CCAM integration in critical scenarios)
- HORIZON-CL5-2027-05-D6-08 (Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity – Societal Readiness pilot)



**Jeongyun Kim**

**Associate Professor**

Seoul National University of Science and Technology

## Biography

### Summary of Academic Background and Professional Experience

Dr. Jeongyun Kim (Member, IEEE) is an Assistant Research Professor at Seoul National University of Science and Technology (SNUST), Department mechanical and automotive engineering. She earned

her B.S., M.S., and Ph.D. degrees from KAIST in 2014, 2016, and 2021, respectively, and completed a Postdoctoral fellow at the Massachusetts Institute of Technology (MIT). Her academic and professional career bridges transportation engineering, data science, and artificial intelligence, with a strong emphasis on interdisciplinary collaboration and real-world deployment of research outcomes.

### Core Research Expertise and Representative Achievements

Dr. Kim's expertise spans urban mobility analytics, AI-based autonomous vehicle control, and large-scale transportation data modeling. She has developed reinforcement learning-based control frameworks for high-precision path tracking, validated through realistic simulations and real-world driving scenarios. Her research has been published in leading peer-reviewed journals, including Transportation Research Part C and IEEE Transactions on Intelligent Transportation Systems. In addition, she has contributed to integrated modeling frameworks combining sensing, perception, and decision-making for connected and automated mobility (CCAM) systems.

### Participation in EU Collaborative Research

In 2025, Dr. Kim contributed to the preparation of a Driving Urban Transitions (DUT) proposal under Horizon Europe, engaging in cross-disciplinary collaboration to address sustainable and automated urban mobility challenges. Although her current portfolio does not yet include a fully funded EU project, she is actively expanding her research scope to align with Horizon Europe priorities, including future integration of Generative AI-enhanced perception systems into CCAM validation pipelines.

## Research Area

### Main research fields:

- Urban Mobility Analytics – Modeling large-scale movement patterns and travel demand estimation using high-dimensional spatiotemporal data.
- Autonomous Vehicle Control Systems – AI- and reinforcement learning-based decision-making for high-precision path tracking and robust driving advisories.
- Connected and Cooperative Automated Mobility (CCAM) – Integrated sensing, perception, and control frameworks for sustainable and intelligent urban mobility systems.

### Technological uniqueness, specialization and flagship results

- Technological Uniqueness  
Combines expertise in transportation engineering, AI, and large-scale data analytics to design decision-making systems that bridge real-world operational constraints with advanced machine learning techniques.
- Specialization  
Reinforcement learning-based control optimization, probabilistic modeling of mobility patterns, and simulation-based evaluation of CCAM technologies under realistic uncertainties.
- Flagship Results:
  - (1) Developed a hierarchical and joint-action reinforcement learning framework for simultaneous

acceleration and steering control, outperforming LQR, MPC, and conventional DQN in realistic urban driving simulations.

- (2) Proposed an integrated design framework for on-demand transit systems leveraging spatiotemporal mobility patterns, validated through synthetic and real-world demand datasets.
- (3) Designed robust advisory models for autonomous driving under human compliance errors, improving safety margins without sacrificing efficiency

### Recent 3-year Publications

- J. Kim, J. Cho, and C. Wu\*, "Learning for robust advisory autonomy under execution errors," IEEE Transactions on Intelligent Transportation Systems, 2025, vol. 26, no. 6, 7780-7791, April. 2025. (JCR top 2.7%)
- J. Kim, S. Tak, J. Yoon, and H. Yeo\*, "A study on the pattern extraction method of origin-destination data using principal component analysis," IET Intelligent Transport Systems, vol. 19, no. 1, e12603, Jan. 2025.
- J. Kim, A. Conti, and M. Z. Win\*, "Travel demand modeling and estimation by identifying urban mobility patterns" IEEE Transactions on Mobile Computing, 2024, vol. 40, no. 3, 1264-1277, Aug. 2024. (JCR top 4.4%)
- J. Kim, S. Tak, J. Lee, and H. Yeo\*, "Integrated design framework for on-demand transit system based on spatiotemporal mobility patterns," Transportation Research Part C: Emerging Technologies, vol. 150, Mar. 2023. (IF: 8.3)
- S. Yang, J. Kim\*, S. Lim\*, "High-Accuracy Path Tracking for Unmanned Vehicle Navigation: A Hierarchical Deep Reinforcement Learning Approach," IEEE Transactions on Vehicular Technology, Accepted. (JCR top 12.6%)
- J. Cho, S. Li, J. Kim, C. Wu\*, "Temporal transfer learning for traffic optimization with coarse-grained advisory autonomy," IEEE Transactions on Robotics, Accepted. (JCR top 8.7%)

### Personal link

- [www.linkedin.com/in/jeongyun-kim-659138221](https://www.linkedin.com/in/jeongyun-kim-659138221)

### Call topic

- HORIZON-CL5-2026-05-D6-07
- HORIZON-CL5-2026-10-D6-03



**Jinwoo Lee**

**Associate Professor**

Korea Advanced Institute of Science and Technology

### Biography

Dr. Jinwoo Lee is an Associate Professor in the Department of Civil and Environmental Engineering at the Korea Advanced Institute of Science and Technology (KAIST). He received his Ph.D. and M.S. in Civil and Environmental Engineering from the University of California, Berkeley, and his B.S. degree from KAIST. Before joining KAIST, he worked as a postdoctoral associate at New York University Abu Dhabi and as a research assistant professor at the Hong Kong Polytechnic University.

His core research expertise lies in sustainable and intelligent transportation systems, with a focus on shared, autonomous, and electric mobility, as well as AI- and robotics-based infrastructure management and climate change adaptation. He has published 30 SCI(E) journal papers in leading transportation and mobility outlets, including Transportation Research Part B, C, D, and E and IEEE Transactions on Intelligent Vehicles. His works have contributed to advancing demand-responsive transit optimization, multimodal transport planning, and condition-based pavement management, offering both theoretical insights and practical solutions for resilient mobility systems.

Beyond academia, Dr. Lee bridges research and practice through leadership roles in mobility innovation. He serves as Director of Technology at Studio Galilei, a company pioneering demand-responsive transit and inclusive mobility solutions, and as Co-founder and Chief Technology Officer of Rovoroad, which develops AI- and robotics-based pavement management technologies. He is also an Affiliated Faculty member at New York University, strengthening international collaboration. These combined roles demonstrate his ability to translate advanced research into high-TRL mobility solutions with global impact.

### Research Area

- Demand-Responsive Transit (DRT) optimization and multimodal service integration for rural–urban connectivity
- Shared, autonomous, and electric mobility systems with a focus on affordability and inclusiveness
- AI- and reinforcement learning–based scheduling and pooling algorithms for real-time transport operations
- Macroscopic Multimodal Hierarchy (MMH) theory, a novel analytical framework for multimodal accessibility and equity
- Pavement and infrastructure asset management using AI and robotics, linking transport operations

with resilient infrastructure

- Pilot demonstrations of DRT services in Korea (30+ cities) and Thailand (tourism-focused inclusive mobility)
- TAMOS (Transit Analysis and Mobility Optimization System), an AI platform applied at TRL 7–8 for planning–operation–monitoring loops
- Publications in top-tier journals (Transportation Research Part B–E, IEEE T-IV)
- Interdisciplinary research bridging engineering and societal needs, especially transport poverty and accessibility gaps
- Global collaborations with academia and industry, ensuring scalability and policy impact of inclusive mobility solutions

### Personal link

- <https://lee.kaist.ac.kr/>
- <https://www.linkedin.com/in/jinwoo-lee-32654648/>

### Call topic

- HORIZON-CL5-2027-05-D6-08: Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity – Societal Readiness pilot



**Marcin Paprzycki**

**Associate Professor**

Systems Research Institute Polish Academy of Sciences

### Biography

Marcin Paprzycki (Senior Member of the ACM, Senior Member of the IEEE) has received his M.S. Degree in 1986 from Adam Mickiewicz University in Poznan, Poland, Ph.D. in 1990 from Southern Methodist University in Dallas, Texas, USA and Doctor of Science Degree (Habilitation) from Bulgarian Academy of Sciences. Currently he works for the Systems Research Institute of the Polish Academy of Sciences (SRIPAS).

His initial research interests were in high performance computing and parallel computing, and over time they evolved toward distributed systems and Internet-based computing and in particular, agent systems. Next he has expended his research into Internet of Things and applied artificial intelligence / machine learning. He has published more than 500 research papers and was invited to Program

Committees of over 1000 international conferences. He has presented over 200 invited talks. He is on editorial boards of 11 journals.

Since 2016 Marcin Paprzycki participated (as member of the SRIPAS team) in EU funded projects: INTER-IoT, ASSIST-IoT, aeerOS and O-CEI. The last project is ongoing.

### Research Area

- Software agents and agent systems
- Artificial intelligence / machine learning -- including frugal AI, federated learning and natural language processing.
- Internet of Things
- Semantic technologies for knowledge representation
- High performance computing.

### Personal link

- <https://www.ibspan.waw.pl/~paprzyck/>
- <https://scholar.google.com/citations?user=OWSryNQAAAAJ&hl=en&oi=ao>
- <https://www.sciencedirect.com/author/56216975300/marcin-paprzycki>

### Call topic



**Marilena D. Pavel**

**Associate Professor**  
Delft University of Technology

### Biography

Dr. Marilena D. Pavel is an Associate Professor with the Department of Control and Operations at Faculty of Aerospace Engineering, Delft University of Technology in The Netherlands. She has an MSc Degree in Aerospace Engineering from Polytechnic University of Bucharest, Romania and a PhD degree from Delft University. Presently, Dr. Pavel is teaching courses on Helicopter Flight Dynamics, Flight Simulation and Control, Mechatronics and Design both onsite and online. She has worked for more than 30 years on vertical lift aircraft, her current research interests including control methods for VTOL aircraft and the development of advanced simulation environments for handling

qualities analysis and certification. In Europe she has worked on Clean Sky, Horizon 2020, Garteur, and Marie Curie Network projects. Between 2015 and 2018 she spent a sabbatical in United States being connected with NASA Armstrong Flight Research Center and National Test Pilot School in Mojave. Marilena is a senior member of the Vertical Flight Society with a leadership profile included in Vertipedia, the reference encyclopedia of people that have helped shaping vertical flight.

### Research Area

Rotorcraft, Innovative Air Mobility, Modeling and Simulation, Certification through Simulation, Safety White Paper Doo, J., Pavel, M.D., et. al. (Aug. 2021) Electric Vertical Takeoff and Landing (eVTOL) Aircraft Technology for Public Services, NASA Transformative Vertical Flight Working Group 4 (TVF4), NASA 20205000636, Aug 2021.

### Personal link

- <https://vertipedia.vtol.org/biographies/getBiography/biographyID/501>
- <https://online-learning.tudelft.nl/instructors/marilena-pavel/>
- <https://www.tudelft.nl/staff/m.d.pavel/>

### Call topic



**Mark Colley**

**Associate Professor**  
University College London

### Biography

Dr. Mark Colley is a Lecturer, Assistant Professor in Human-Computer Interaction at University College London, with a PhD in HCI from Ulm University, 2024, and industry experience as a software engineer at Airbus Defence and Space. He has held visiting roles at Cornell Tech and the University of Tokyo, supported by DAAD and Canon. His research sits at the intersection of HCI, accessibility, and advanced mobility, focusing on connected and automated mobility, human-vehicle interaction, and simulation-driven evaluation. He has authored more than fifty peer-reviewed publications across CHI, IMWUT, AutoUI, and Transportation Research, received multiple Honorable Mention awards at CHI and MobileHCI, and the ACM SIGCHI Emerging Researcher Recognition 2025. He coordinates the UCLIC Research Seminar Series and serves as Associate Editor for leading HCI journals, contributing

to community building and open science.

Core expertise includes external HMI for AVs, trust calibration, vulnerable road user interaction, human-in-the-loop Bayesian optimization of interfaces, mixed-reality and on-road simulators, and multi-modal sensing for driver and passenger state. Flagship results include Portobello, a platform-portable infrastructure to run identical studies in lab and on road, OptCarVis, Bayesian optimization to improve AV functionality visualizations, and open datasets and tools such as AutoTherm and UnitEye that support reproducible research.

He has collaborated with European partners in Germany, the Netherlands, Sweden, and the UK on cross-site studies, shared datasets, and workshop series aligned with Horizon Europe Cluster 5 priorities. He has contributed to proposal concept development and consortium formation for an upcoming 2026–2027 call, and is seeking to join funded Horizon Europe projects as a work package lead, bringing HCI, UX, and validation methods to CCAM testbeds.

### Research Area

- Human–vehicle interaction, external HMI for AVs, CCAM safety and UX
- Trust calibration, driver and pedestrian behavior, cross-cultural evaluation
- Human-in-the-loop Bayesian optimization for interface parameters and policies
- Simulation at scale, SUMO-based macrosimulation, digital twins, on-road replication
- Generative and data-driven scenario synthesis for validation, rare event coverage
- Physiological and gaze sensing for state inference, risk and comfort estimation
- Accessibility in mobility, inclusive design for VRUs and passengers with impairments
- Technical uniqueness, rigorous UX pipelines that couple MOBO, simulators, and field studies

### Personal link

- <https://profiles.ucl.ac.uk/102233-mark-colley>
- <https://m-colley.github.io/>
- <https://www.linkedin.com/in/mark-colley-6a50ab111/>

### Call topic

- HORIZON-CL5-2026-01-D6-13
- HORIZON-CL5-2026-01-D6-04
- HORIZON-CL5-2026-01-D6-14
- HORIZON-CL5-2026-10-D6-03 (Generative AI for smarter CCAM: enhancing perception, decision-making, and validation)
- HORIZON-CL5-2027-05-D6-04 (Holistic solutions for CCAM integration in critical scenarios)
- HORIZON-CL5-2027-05-D6-08 (Enhancing Mobility for All: affordable ,reliable, and accessible multimodal transport for inclusive rural and urban connectivity – Societal Readiness pilot)



## Mark Spiller

**Research Associate**

German Aerospace Center (DLR)

### Biography

Dr.-Ing. Mark Spiller is a Research Associate at the German Aerospace Center (DLR) in Braunschweig, Germany, in the Institute of Flight Systems, Department of Unmanned Aircraft. DLR maintains one of the largest arsenals of drone test vehicles in Germany, enabling research and flight testing across multiple areas, including autonomy, drone defense and swarming, all-weather operations, and low-cost transportation.

Mark Spiller received his doctoral degree in 2022 from the Chair of Dynamics and Control, University of Duisburg-Essen, focusing on nonlinear and robust control. In the Department of Unmanned Aircraft, he is responsible for the design of autopilots for both fixed-wing and helicopter drones. He has participated in various projects such as Upcoming Drone Windfarm (UDW), CargoPack, and Morphair, aiming to enable safe UAV landing on wind turbines, safe cargo transport with unmanned helicopters, and learning-based flight control of morphing wing structures.

His research interests include safe learning in control, envelope protection and safety-critical control, and adaptive control.

### Research Area

#### Main Research Fields:

- UAV control approaches with a focus on safe autonomy
- Learning-based methods in flight control with safe exploration
- Modeling and simulation of complex flight mechanics such as morphing wing structures

#### Selected Publications:

- Schopferer et al. (2025), “Offshore Wind Farm Delivery with Autonomous Drones: A Holistic View of System Architecture and Onboard Capabilities”, Drones, MDPI
- Spiller et al. (2025), “Feasibility of Multiple Robust Control Barrier Functions for Bounding Box Constraints”, American Control Conference (ACC), Denver, CO, USA, IEEE
- Spiller et al. (2025), “Robust Disturbance Observer-Based Control of Unmanned Helicopter”, CEAS Aeronautical Journal

Personal link

- <https://www.researchgate.net/profile/Mark-Spiller>
- <https://scholar.google.com/citations?user=8058aSkAAAAJ>

Call topic



Minje Choi

Research Professor  
University of Seoul

Biography

I hold a Ph.D. in Transportation Engineering from the University of Seoul, specializing in autonomous mobile robots and smart mobility planning. I currently serve as a member of the Selection Committee for Autonomous Vehicle Pilot Operation Zones under the Ministry of Land, Infrastructure, and Transport of Korea. I have also undertaken a postdoctoral research fellowship at the University of Cambridge, UK.

Presently, I am a Research Professor in the Department of Transportation Engineering at the University of Seoul, conducting research on autonomous mobile robots, smart mobility planning, and the integration of emerging transport modes into urban systems. My work focuses on behavioural analysis of new mobility modes, large-scale transport simulations, and the optimization of mobility hub design and deployment.

I have extensive experience in international collaborative research, working with leading institutions such as MIT, the University of Cambridge, and UCL on projects related to autonomous driving technologies and smart mobility strategies. These collaborations have provided me with in-depth knowledge of European transport systems and policy frameworks.

My research portfolio includes developing behaviour-based simulation models using real-world road and autonomous vehicle data, applying AI techniques for navigation and infrastructure assessment, and formulating strategies for sustainable and resilient urban mobility. I aim to contribute to the Horizon Europe programme by integrating advanced simulation, AI-driven behavioural modelling, and collaborative innovation for the safe and scalable deployment of future mobility systems.

Research Area

My main research areas include autonomous mobile robots, route optimization, network optimization, and multimodal behavioural model optimization. Key achievements include the development of pedestrian navigation systems, location optimization for autonomous mobile robots, and the optimization of the Seoul Mobility Hub.

I hold 7 related patents, have published 17 SCIE-indexed papers, and received the Korean Minister of Education Award and the ICE (Institution of Civil Engineers, UK) Best Paper Award. Recently, I authored and published a scholarly monograph on autonomous mobile robots with Springer Nature.

Selected patents: Adaptive user detection and tracking system for human-following robots; Automated convex hull generation system for fixed objects.

Selected publications and books: Autonomous Vehicle Integration with Public Transit for Congestion Mitigation and Energy Efficiency; Intelligent Moving Cities: Technological Leap and Social Integration of Autonomous-Mobile Robots.

Personal link

- <https://scholar.google.com/citations?user=ZKxbiTAATAAJ&hl=ko>
- [https://www.researchgate.net/profile/Minje-Choi-2?ev=hdr\\_xprf](https://www.researchgate.net/profile/Minje-Choi-2?ev=hdr_xprf)
- <https://www.linkedin.com/in/choi-minje-91a137373/>

Call topic

- HORIZON-CL5-2026-10-D6-01
- HORIZON-CL5-2026-10-D6-02
- HORIZON-CL5-2026-10-D6-05
- HORIZON-CL5-2026-10-D6-07
- HORIZON-CL5-2026-10-D6-09



**Namhoon Cho**

**Assistant Professor**

(Incoming) Seoul National University / (Currently) Cranfield University

**Biography**

Namhoon Cho is incoming Assistant Professor in the Department of Aerospace Engineering at Seoul National University, South Korea, starting in September 2025. He is currently Lecturer in Control and Optimisation in the Centre for Assured and Connected Autonomy, Faculty of Engineering and Applied Sciences, Cranfield University, United Kingdom, since November 2024. He received his BSc and PhD degrees in Mechanical and Aerospace Engineering from Seoul National University, South Korea, in August 2012 and February 2017, respectively. Previously, he was a research fellow at Cranfield University from January 2021 to November 2024 with the award of a Cranfield 75th Anniversary Fellowship to pursue research on AI for Exploitation of Data-Driven Approach in Control for Aerospace Systems. He was a senior researcher in the 1st R&D Institute, Agency for Defense Development, South Korea, from March 2019 to December 2020, where he was involved in research and development of guidance and control systems for missiles and developed design tools based on optimisation techniques. He was a research fellow in the Department of Mechanical and Aerospace Engineering, Seoul National University, South Korea, from March 2017 to February 2019. He develops constructive methodologies to design control algorithms for aerospace and robotic systems.

None to little previous experience in EU collaborative research projects, but worked closely to European researchers in various ways. Engaged in an EU project as a co-supervisor for one PhD student working in the FlyEco consortium, which is a Horizon Europe project.

**Research Area**

**Overview**

Researcher in Control and Learning. Demonstrated aerospace GNC expert in both theory and practice. Strong expertise in machine learning for dynamic systems and control. Significant experience in control, estimation, and optimisation for autonomous aerospace systems.

**Core Research Areas / Flagship Results / Representative Publications**

- 1. Adaptive Control / Generic parameterisation of composite model reference adaptive control systems based on synchronisation and accelerated gradient flow / <https://doi.org/10.1109/TAC.2017.2737324>
- 2. Safe Control / Data-driven Hamiltonian for direct data-driven Hamilton-Jacobi reachability analysis / <https://arxiv.org/abs/2504.03233>
- 3. Optimisation & ML / Passivity-based generalisation of accelerated gradient flow algorithms for

convex optimisation / <https://doi.org/10.1109/CDC56724.2024.10886267>

- 4. Learning-Enabled GNC for Aerospace / Parameter correction approach in neural policy guidance for spacecraft landing / <https://doi.org/10.2514/1.G007234>

**Specific Research Interests**

My research interests include control-theoretic design of optimisation algorithms, robust adaptive control with online model learning, trajectory planning, data-driven safe control frameworks, learning-enabled control with safety assurance, and unified frameworks for automated design of optimal guidance and control systems.

**Personal link**

- <https://nhcho91.github.io>

**Call topic**

- HORIZON-CL5-2026-06-Two-Stage-D5
- HORIZON-CL5-2027-05-D5
- HORIZON-CL5-2027-06-Two-Stage-D5
- HORIZON-CL5-2026-10-D6
- HORIZON-CL5-2027-05-D6



**Nicola Colaninno**

**Assistant Professor**

Polytechnic University of Milan, Department of Architecture and Urban Studies (DASU)

**Biography**

**Summary of Academic Background & Professional Experience**

Nicola Colaninno is an Assistant Professor of Urban and Regional Planning at Politecnico di Milano (since 2022). He holds a Ph.D. in Urban and Architectural Management and Valuation (UPC Barcelona, 2016, Cum Laude). Previous roles include Research Fellow at Politecnico di Milano (2017–2022), Adjunct Professor (2021–2022), and Research Assistant at UPC (2008–2013).

**Core Research Expertise & Achievements**

His expertise lies in applied GIScience, remote sensing, and urban/regional planning, with a focus on urban climate, microclimate simulation, and heat-health risk assessment. He has authored multiple

peer-reviewed papers (e.g., Environment and Planning B, IEEE Transactions on Big Data, Sustainable Cities and Society). Recognitions include the Marie Skłodowska-Curie Individual Fellowship (H2020, 2021), PI role in the MultiCAST project (2022–2025), and the CISBAT Golden Paper Award (2019). He also serves as Guest Editor for leading journals and co-curator for the 2025 Triennale di Milano.

### Participation in EU Collaborative Research Projects

Colaninno has extensive experience in EU-funded research:

- MultiCAST (PI, 2022–2025) — H2020 MSCA Global Fellowship, Politecnico di Milano/MIT.
- AIR BREAK (Research Fellow, 2020–2021) — Urban Innovative Actions, European Commission.
- Urban-CLIMPLAN (2016–2018) — funded by ERDF, Spain

### Research Area

#### Main Research Fields

- Urban and regional planning with a focus on climate adaptation and resilience.
- Applied GIScience and remote sensing for urban analysis.
- Urban climate and microclimate simulation, including urban heat island and thermal–health risk assessment.
- Data-driven modeling of mobility, accessibility, and pedestrian exposure to environmental stressors.

### Technological Uniqueness & Specialization

- Development of MultiCAST (Multiscale Thermal-related Urban Climate Analysis and Simulation Tool) — integrating GIS, remote sensing, and microclimate modeling for fine-scale urban heat stress analysis (PI, 2022–2025).
- Pioneering sidewalk-level heat risk assessment framework combining mobility data and microclimate simulation.
- Expertise in machine learning–based land cover classification and semi-automatic urban morphology analysis (PhD thesis, Cum Laude).

### Patents, Publications & Flagship Outputs

#### [Publications]

- “A sidewalk-level urban heat risk assessment framework...” (Environment and Planning B, 2024).
- “District-scale cumulative heat stress mapping...” (Sustainable Cities and Society, 2025).

#### [Awards]

- Marie Skłodowska-Curie Individual Fellowship (H2020, 2021); CISBAT Golden Paper Award (2019).

#### [Editorial leadership]

- Guest Editor of special issues in City, Territory and Architecture (Springer) and Building Research & Information (Taylor & Francis), 2025.

### Personal link

- <https://www.multicastproject.polimi.it/>

### Call topic

- HORIZON-CL5-2026-01-D6-13 – “Safety of Cyclists, Pedestrians and Users of Micromobility Devices”



## Oscar Oviedo-Trespalacios

**Professor and Academic Portfolio Director**  
**– Future of Mobility (Extension School)**  
Delft University of technology

### Biography

Dr Oscar Oviedo-Trespalacios is Assistant Professor in Responsible Risk Management at TU Delft and Director of the Future of Mobility programme at the Extension School. A human-factors engineer and transport safety scholar, he has authored 230+ publications with substantial policy and media impact, and has been listed among the global top 2% most-cited researchers. His work integrates psychology and engineering to prevent technology misuse in socio-technical systems, with flagship contributions on driver distraction, roadside advertising regulation, and human-centred AI in mobility. He serves as Associate Editor for Accident Analysis & Prevention and other leading journals, and is frequently invited for keynotes by authorities and international conferences.

Oscar has secured over €3M in competitive funding and has led multi-partner projects. Recent EU-facing activity includes the Marie Curie IVORY network, DUT HANGOUT project and shaping proposals under Horizon Europe on AI-enabled road safety, CCAM, and transport justice. He currently supervises 7 PhD and 5 MSc students across human-AI teaming, CAV interactions, delivery-rider safety, and equity in mobility. His research has informed legislation in several countries (e.g., luminance/placement limits for digital billboards) and guidance for national working groups, demonstrating a strong record of research-to-policy translation. At TU Delft, he is establishing the PROMISE Lab to develop best practices that prevent technology misuse and strengthen societal readiness for safer, fairer mobility transitions.

### Research Area

- Responsible innovation & Societal-Readiness-by-Design for mobility
- Human factors of transport safety (distraction, risk compensation, VRU interactions)
- AI misuse prevention; human-in-the-loop assurance for CCAM / Edge-AI

- Predictive crash-risk analytics using multi-source big data
- Transport justice and equity impacts of automation and micromobility
- Policy translation: evidence to standards (billboard safety, DMS, enforcement tech)
- Immersive VR training for distraction mitigation (world-first prototype)
- Mixed-methods living labs and stakeholder co-creation
- Editorial leadership (AAP, TRF, Safety Science SI) and community representation
- Flagship results: behavioral adaptation model of distraction; policy-cited systematic reviews; widely used frameworks for technology misuse.

### Personal link

- <https://www.tudelft.nl/en/staff/o.oviedotrespalacios/>
- <https://scholar.google.com.au/citations?user=XbNmPx4AAAAJ&hl=en&oi=ao>

### Call topic

- HORIZON-CL5-2026-01-D2-09 — Monitoring and Evaluation of the Societal Readiness Pilot (SRP)
- HORIZON-CL5-2026-01-D6-14 — Predicting and avoiding road crashes based on AI and big data
- HORIZON-CL5-2026-01-D6-05 — Approaches, verification and training for Edge-AI building blocks for CCAM Systems (CCAM Partnership)



**Rosen Dimov**

**Assoc Prof, Innovation Department Manager**  
emotion3D GmbH

### Biography

For over 15 years working in EU projects, former adviser to European Commission President Barroso in charge of innovation policies and instruments, including framework programmes (Horizon 2020 succeeded by Horizon Europe). Currently associate professor covering transdisciplinary courses like AI in Business, Technology-Enabled Life, Smart Mobility, along with foundational courses at the university. In charge of Innovation at the university spin off, emotion3D. Member of the policy council of the European Institute of Innovation and Technology. Specific projects related to CCAM and mobility that I have been in charge of the preparation and execution of work packages under the following ongoing Horizon Europe Projects where my institution is involved:

<https://cordis.europa.eu/project/id/101203230> RESILIENT AND CONTINUOUS SAFETY ASSURANCE METHODOLOGY FOR CCAM AND ITS HMI COMPONENTS

<https://cordis.europa.eu/project/id/101189763> Automated Assessment and Certification Compliance of Organisations, Systems, Data and AI Operations in a Human Understandable Context

<https://cordis.europa.eu/project/id/971619> Disrupting the Restraint Control Systems (RCS) Market: Personalized Restraint Technology for Boosting Human Safety in Vehicles

Additionally, following up on the synergies of completed Horizon Europe projects where I was involved we started the Go-Up incubator (a joint entity of 7 universities) with the support of the European Commission's Horizon Results Booster service for completed projects. The incubator accelerates ideas of university spin offs like emotion3D that were funded through Horizon Europe by enabling them with market validation and access to financing. I was elected to serve on the Board of the incubator as the Vice Chairperson.

### Research Area

I lead innovation at emotion3D, a university spin-off that converts laboratory research into edge-deployable in-cabin perception for Connected, Cooperative and Automated Mobility. Our uniqueness, enhanced by the scientifically excellent roots that come from the Vienna Technical University, lies in a human-centred vision stack that fuses synchronisation-aware multi-camera inputs and auxiliary sensors to deliver robust driver and occupant state understanding under real-world conditions (variable illumination, occlusion, diverse anthropometrics, complex cabin geometries). The software is engineered for real-time execution within automotive compute budgets and developed from the outset to align with ISO 26262 (functional safety), ISO 21448/SOTIF, and privacy-by-design requirements.

I am a co-author of peer-reviewed publications and a co-inventor on multiple emotion3D patent families that emerged directly from our EU-funded CCAM work. These include inventions on personalised restraint control using AI-based occupant modelling for adaptive energy-management; attention-zone and gaze-estimation methods that provide interpretable signals for safety-critical decision-making; multi-modal fusion pipelines for driver impairment detection that remain stable under domain shift; and calibration and time-synchronisation techniques enabling accurate 3D localisation from heterogeneous in-cabin sensors. These patents anchor the project results in protectable foreground IP and have guided our industrial uptake strategy from prototype to series-feasible modules.

Within Horizon Europe, I have prepared and executed work packages in projects focused on safety assurance, certification and occupant protection, including 101203230 (Resilient and Continuous Safety Assurance Methodology for CCAM and its HMI Components), 101189763 (Automated Assessment and Certification Compliance of Organisations, Systems, Data and AI Operations in a Human Understandable Context), and 971619 (Disrupting the Restraint Control Systems Market: Personalised Restraint Technology for Boosting Human Safety in Vehicles). Building on completed actions, I helped establish the Go-Up incubator with seven universities, supported by the European

Commission's Horizon Results Booster, to accelerate spin-offs such as emotion3D through structured market validation and access to finance; I serve as Vice Chairperson of its Board. Our contributions to smart electronics and components have been recognised with the Innovation Award of AENEAS, the European umbrella organisation for this domain, which also manages the Chips Joint Undertaking of the EU.

### Personal link

- <https://www.linkedin.com/in/rosendimov/>

### Call topic

- HORIZON-CL5-2026-01-D6-03
- HORIZON-CL5-2026-01-D6-14
- HORIZON-CL5-2026-01-D6-13
- HORIZON-CL5-2026-01-D6-05
- HORIZON-CL5-2026-01-D6-06



**Seongho Jeong**

**Postdoctoral researcher**  
University of the Bundeswehr Munich

### Biography

Bachelor's and Master's degree in Environmental Engineering in Germany, followed by a Ph.D. in Environmental Chemistry. My doctoral research focused on the physical and chemical characterization of combustion-derived aerosols, particularly from marine engines, and their toxicological impacts. After completing Ph.D., I have been actively involved in monitoring and detecting atmospheric aerosols using variety of real-time and offline analytical instruments. The core expertise lies in source-specific aerosol profiling, instrument-based emission measurements, and health-related aerosol impact assessment. One of the emission sources that I have investigated was the Non-exhaust emission from brake and tyre wear. The physical and chemical characteristics are measured under different conditions and the contribution of those particles into the atmosphere has been investigated. Currently, employed as a postdoctoral researcher under an EU-funded project, contributing to collaborative work on air pollution and climate-related aerosol research. I have experience in multinational research environments and aim to expand my engagement in Horizon Europe collaborative initiatives.

### Research Area

- Main research fields include atmospheric aerosols, non-exhaust emissions (NEE) from transport, aerosol toxicology, and real-time chemical characterization.
- Special focus is placed on brake and tyre wear emissions, ultrafine particles, and the environmental/health implications of particulate pollution.
- Technological specialization lies in the use of high-resolution, real-time measurement techniques such as Single-Particle Mass Spectrometry (SPMS).
- A unique expertise is the integration of aerosol instrumentation with in vitro toxicological testing to link and chemical composition with health impacts.
- Extensive experience with both laboratory-based dynamometer setups and real-world field campaigns, including emissions from marine, rail, and road sources.
- Flagship results include the identification of fuel- and material-specific chemical markers for source attribution and exposure risk assessment.
- Currently contributing to EU-funded research (e.g. dttec.bw MORE/LUKAS) on advanced emission analysis and control strategies.
- Research output includes 15+ peer-reviewed papers (SCI/SCIE), several first-author contributions, and invited talks at international aerosol conferences.
- Open to interdisciplinary collaborations in emission measurement, air quality, and environmental health under Horizon Europe calls.

### Personal link

- <https://www.unibw.de/mb/institute/we6/personen/jeong>

### Call topic

- HORIZON-CL5-2026-06-Two-Stage-D5-20



**Seunghyeon Lee**

**Associate Professor**  
University of Seoul

### Biography

Dr. Seunghyeon Lee is an Associate Professor in the Department of Transportation Engineering at the University of Seoul and previously served as an Assistant Professor at the School of Computer Science, University of Technology Sydney, Australia. He received his Ph.D. in Transportation

Engineering and has over 15 years of academic and professional experience spanning transportation systems, AI-based mobility optimization, and intelligent infrastructure design in Hong Kong, New Zealand, Australia, and South Korea.

His core research expertise lies in integrating physics-based models with data-driven machine learning algorithms for real-time traffic state estimation, dynamic parameter calibration, and adaptive traffic control strategies. He has made significant contributions to CCAM, emergency vehicle preemption, green light optimal speed advisory, and hierarchical group-based traffic control systems. Dr. Lee pioneered the application of Deep Kalman Filters for dynamic calibration of microscopic traffic models under data uncertainty, as well as bidirectional estimation and reconstruction frameworks that fuse Intelligent Driver Model and Inverse IDM to reduce trajectory estimation error in mixed traffic environments.

His representative achievements include publishing in leading journals such as Transportation Research Part A, B, C, E, and IEEE on Intelligent Transportation Systems. His research outputs have been deployed in pilot projects for urban traffic optimization, multi-modal integration, and simulation-driven policy evaluation.

Since January 2025, Dr. Lee has actively engaged in EU collaborative research, coordinating with 10 universities and governmental institutions to prepare the F-DUT-2024-0431: Pedestrian-Friendly Urban Spaces through Adaptive Micromobility Regulation (MicroMReg) project under the DRIVING URBAN TRANSITIONS PARTNERSHIP (DUT 2024). The project, commencing in September 2025, aims to develop adaptive, data-driven micromobility regulation tools that enhance pedestrian comfort and safety while aligning with the 15-minute city (15mC) model. His role focuses on simulation, mathematical optimization, and AI-enabled adaptive regulation, ensuring the solutions are both scientifically robust and operationally viable for city administrations. Moreover, he leads a multi-scale digital twin for adaptive micromobility regulation using real-time pedestrian stress data.

Through his interdisciplinary expertise and track record in international collaboration, Dr. Lee continues to advance research and innovation at the intersection of AI, transportation engineering, and sustainable urban mobility.

## Research Area

### Main Research Fields

My research focuses on the development of advanced traffic management and control strategies, traffic flow theory, connected and autonomous mobility systems, multimodal transportation networks, and AI-driven intelligent transportation systems (ITS). A particular emphasis is placed on integrating physics-based modeling with data-driven machine learning, enabling dynamic calibration of microscopic traffic models, real-time state estimation, and predictive traffic optimization in heterogeneous and mixed traffic environments.

## Technological Uniqueness and Specialization

I specialize in hybrid modeling approaches that combine physics-based behavioral models, such as the Intelligent Driver Model (IDM), with advanced algorithms including Deep Kalman Filters and bidirectional reconstruction frameworks. This allows for accurate estimation of unobserved traffic states beyond sensor coverage, improving safety and efficiency for connected and autonomous vehicles. My work also introduces generative AI-driven scenario synthesis for CCAM testing and validation, enhancing system robustness against rare and culturally diverse traffic situations. These methods have been implemented in distributed computing architectures, achieving sub-50 ms latency and 15–20% energy savings compared to centralized processing.

### Flagship results include:

- Development of a hierarchical group-based adaptive traffic control system integrating queue-informed GLOSA and max-pressure policies, significantly reducing corridor-level delays.
- Creation of a dynamic calibration framework using Deep Kalman Filters that improved trajectory prediction accuracy under data uncertainty across multiple congestion levels.
- Design of a bidirectional IDM/IIDM fusion model that reduced trajectory estimation error by over 25% in long observation gaps.
- Deployment of simulation-based decision-support tools for urban traffic optimization and policy testing in real-world pilot environments.

## Patents, Publications, and Research Excellence

I have authored approximately 30 Q1 journal papers and peer-reviewed conference publications, with most as first or corresponding author, in leading outlets such as Transportation Research Part A, B, C, E, and IEEE Transactions on Intelligent Transportation Systems. I serve as a reviewer for 11 high-impact journals, including Transportation Research Part B, IEEE Transactions on Cybernetics, and Accident Analysis & Prevention. My research excellence is further reflected in over 20 funded research and consultancy projects across South Korea, Hong Kong, New Zealand, and Australia.

## Personal link

- <https://www.seunghyeonlee.com/>

## Call topic

- HORIZON-CL5-2026-10-D6-03: Generative AI for smarter CCAM: enhancing perception, decision-making, and validation



**Sol Hee Yoon**

**Associate Professor**

Seoul National University of Science and Technology

### Biography

I hold both a Master's and Ph.D. in Industrial Engineering from Yonsei University, specializing in Human Factors and Ergonomics. My Master's thesis focused on modeling drivers' visual complexity when interacting with in-vehicle interfaces, while my Ph.D. dissertation examined drivers' behavior in highly automated vehicles. Professionally, I gained two years of experience at LG Electronics in the Robot UX team and another two years at Hyundai Mobis in the IVIS HMI/UX team before joining the Department of Safety Engineering at Seoul National University of Science and Technology as a professor. My core research expertise lies in analyzing drivers' physical, visual, and cognitive behavior during human-vehicle interaction, developing predictive models of human perception in driving situations, and designing safety systems that enhance the interaction between drivers and vehicles. I have published multiple SSCI-indexed journal articles and presented at numerous international conferences, and I have served on the ACM Automotive User Interfaces Conference for three consecutive years. I have also engaged in several collaborative research with international partners, though I have not yet participated in EU-funded collaborative programs. I see this networking event as an excellent opportunity to expand my research network, explore potential synergies, and initiate collaborations in the European research ecosystem on advanced mobility and human-vehicle interaction.

### Research Area

#### Main Research Fields:

- AI-driven driver state monitoring systems and risk assessment tools for mixed-traffic and critical event scenarios
- Driver behavior-based risk assessment for critical event scenarios
- Micromobility as a novel form of urban mobility
- Safety design for next-generation mobility solutions

My research focuses on human factors and human-machine interaction in the context of advanced mobility, with particular emphasis on highly automated driving systems, micromobility safety, and user-centered interface design. I specialize in analyzing drivers' physical, visual, and cognitive behaviors when interacting with in-vehicle systems, developing predictive models of human perception, and designing safety systems for human-vehicle interaction. Grounded in interdisciplinary collaboration, my work bridges engineering, psychology, and design to ensure human-centered innovation in future mobility.

### Personal link

- [https://www.researchgate.net/profile/Sol-Hee-Yoon?ev=hdr\\_xprf](https://www.researchgate.net/profile/Sol-Hee-Yoon?ev=hdr_xprf)
- <https://www.linkedin.com/in/solhee-yoon-a72056116/>
- <https://hfe.seoultech.ac.kr/index.do>

### Call topic

- HORIZON-CL5-2026-10-D6-01: Flagship-pilot: large-scale demonstrations of CCAM



**Soyeon Kim**

**Assistant Professor**

University of Warwick

### Biography

I am an Assistant Professor in Human Factors in Automated Mobility at the University of Warwick, UK. I am an expert in human-centred mobility design, holding a Ph.D. in Human-Centred Design from TU Delft, an M.S. in Industrial Engineering from KAIST, and a B.S. in Industrial Engineering from KAIST. Before my academic career, I worked as a Research Engineer at Hyundai Motor Group, where I was involved in automotive UI/UX design, contributing to the development of user experiences from the concept phase to mass production.

My research focuses on automated vehicles, human-machine interaction (HMI), human factors, and the adoption of future mobility solutions. I have conducted research on designing human-machine interactions for trustworthy automated vehicles. Moreover, I am also interested in the adoption of new mobility solutions, such as micromobility and urban air mobility.

As a Research Associate (during my Ph.D.) and later a Research Scientist (during my postdoctoral research) at TU Delft, I worked on two major EU Horizon 2020 projects: HADRIAN (<https://hadrianproject.eu>) and Hi-Drive (<https://www.hi-drive.eu>). These projects focused on the design and evaluation of HMI in automated vehicles.

### Research Area

Research area: Human-centred design for smart mobility (Automated vehicles, micro mobility, UAM)  
Interested in

- Trust / Acceptance of automated mobility

- Remote operation
- Driver training
- Inclusive mobility

Skilled in Human Factors and Human-Machine Interaction design

### Personal link

- <https://www.linkedin.com/in/soyeon-kim-2ba677142/>

### Call topic

- HORIZON-CL5-2026-05-D6-07: Supporting sustainable and smart urban mobility in Europe (CIVITAS)
- HORIZON-CL5-2027-05-D6-08: Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity – Societal Readiness pilot
- HORIZON-CL5-2026-05-D6-09: Road Safety and resilience of rural areas



**Suzanne Hiemstra-van Mastrigt**

**Assistant Professor & Director of the Seamless  
Personal Mobility Lab**  
Delft University of Technology

### Biography

Dr.ir. Suzanne Hiemstra-van Mastrigt is an Assistant Professor at TU Delft's faculty of Industrial Design Engineering and the director of the Seamless Personal Mobility Lab. In this Delft Design Lab, students and researchers work closely together with Dutch (public) transport and mobility companies and organisations, as well as local and national governments, to design solutions that match the needs of travellers and different stakeholders. She wants to design future mobility systems that enhance both the well-being of people and our planet.

Dr. Hiemstra's academic journey started with a focus on mobility product design, specifically vehicle seating and interiors, and has since evolved to include mobility services and systems design. She has over 15 years of experience in the mobility domain and a unique background that combines design research and consumer behaviour, with a usability, user-centred and human factors systems approach. For her award-winning PhD thesis, she collaborated with seat and car manufacturers, railways, airlines and material suppliers, to develop new knowledge on the design of comfortable passenger seats that has significantly impacted the design of several award-winning aircraft and train seats. Her findings have also been integrated into common specifications for seat comfort in rolling stock in Europe (EuroSpec). As part of the European Horizon2020 project PASSME (Personalised

Airport Systems for Seamless Mobility and Experience), she developed scientific theories and innovative designs for future airports and aircrafts to reduce travel time and enhance the passenger experience, leading to several Crystal Cabin Award nominations. Currently, she is investigating behavioural interventions to encourage shifts from airplane to train travel and developing and testing a multi-modal travel platform as part of the H2020 project TULIPS – Green Airports.

### Research Area

User-centric mobility, multi-modal travel, sustainable travel behaviour, inclusive design, participatory design, shared mobility.

### Publications (selection):

- Nieuwborg, A., Melles, M., Hiemstra-van Mastrigt, S., Santema, S., 2024. How can airports prepare for future public health disruptions? Experiences and lessons learned during the COVID-19 pandemic from a systemic perspective based on expert interviews, *Transportation Research Interdisciplinary Perspectives* (23)
- Van Kuijk, J., Hiemstra-van Mastrigt, S., Santema, S., and Veeneman, W. (2023). Stop thinking in terms of either trains or flights, and turn Schiphol Airport into a European air-train hub. Opinion article published in *De Volkskrant* (Dutch national newspaper), April 21, 2023.
- Borsje, R., Hiemstra-van Mastrigt, S., Veeneman, W.W. (2023). Assessing passenger preferences for Bus Rapid Transit characteristics: A discrete choice experiment among current and potential Dutch passengers, *Research in Transportation Economics* (100)
- Nieuwborg, A., Hiemstra-van Mastrigt, S., Melles, M., Zekveld, J., Santema, S. (2023). A Categorization of Resilience: A Scoping Review, *Administrative Sciences* 2023, 13(4): 95
- Hiemstra-van Mastrigt, S., Sampimon, M., Spaargaren, C. (2023). Non-digital travellers – Five Need-Based Personas to Understand their Drivers and Needs. In: Keseru, I. & Randhahn, A. (Eds.) *Towards User-Centric Transport in Europe 3: Making digital mobility inclusive and accessible*, *Lecture Notes in Mobility*, Springer, Cham. [https://doi.org/10.1007/978-3-031-26155-8\\_5](https://doi.org/10.1007/978-3-031-26155-8_5)
- Lee, S., Lee, S., Hiemstra-van Mastrigt, S., Kim, E. (2022). What cities have is how people travel: Conceptualizing a data-mining-driven modal split framework. *Cities: The International Journal of Urban Policy and Planning*, 2022
- Veeneman, W.W., Van Kuijk, J.I., Hiemstra-van Mastrigt, S. (2020). Dreaming of the travelers' experience in 2040: Exploring governance strategies and their consequences for personal mobility systems. In: Müller, B. & Meyer, G. (Eds.), *Towards User-Centric Transport in Europe 2*, 225–239. *Lecture Notes in Mobility*, Springer International Publishing, Switzerland. <https://doi.org/10.1007/978-3-030-38028-1>

### Personal link

- <https://www.tudelft.nl/en/ide/about-ide/people/hiemstra-van-mastrigt-s>
- <https://research.tudelft.nl/en/persons/s-hiemstra-van-mastrigt>
- <https://www.linkedin.com/in/shiemstra/>

- <https://www.researchgate.net/profile/Suzanne-Hiemstra-Van-Mastrigt>
- <http://delftdesignlabs.org/seamless-personal-mobility/>
- <https://www.tudelft.nl/mobility-futures>

### Call topic

- HORIZON-CL5-2027-06-D6-08: Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity



**Thomas Adam**

**Professor**

University of the Bundeswehr Munich

### Biography

Name: Prof. Dr. Thomas ADAM

Professor in Analytical chemistry and Aerosol research at the University of the Bundeswehr Munich, Germany as well as

Deputy Director of the research group Comprehensive Molecular Analytics (CMA) at Helmholtz Zentrum Munich - German Research Center for Environment and Health

PhD (Summa cum laude) in Analytical chemistry at the Technical University of Munich (TUM) under Prof. Antonius Kettrup and Prof. Ralf Zimmermann

A summary of my academic background and my professional experience, you can find under <https://www.linkedin.com/in/thomas-w-adam-798698226/?originalSubdomain=de>

My publication record, you can find under

<https://www.scopus.com/results/results.uri?sort=plf-f&src=s&st1=adam&st2=thomas&nlo=1&nlr=200&nls=afprnm-t&affilName=neubiberg&sid=ae18b38945ca2980ecb112d068434bfa&sot=anl&sdt=aut&sl=32&s=AU-ID%28%22Adam%2C+T.+W.%22+55390797000%29&partialQuery=&txGid=2b742c8d6401c6a08f3631b6748d8fdc&sessionSearchId=ae18b38945ca2980ecb112d068434bfa&limit=200>

For my core research expertise and representation achievements, please consult <https://www.researchgate.net/profile/T-W-Adam>

Currently, I'm participating as PI and Work group leader in EU H2020 project ULTRHAS (ULtrafine particles from TRansportation – Health Assessment of Sources; Grant Agreement No. 955390). For

further information please look at our website at <https://www.fhi.no/en/cl/studies/ultrhas/>

For more detailed information on my research group, please consult our website under <https://www.unibw.de/mb/institute/we6/startseite> (in German).

### Research Area

Aerosol research, Air pollution, Physical and chemical characterisation, Climate Change, Atmospheric Chemistry, Transport emission, Modern powertrains, sustainable fuels, aviation, maritime transport, road traffic, brake & tyre wear, railway & metro emission

### Personal link

- <https://www.researchgate.net/profile/T-W-Adam>

### Call topic

- HORIZON-CL5-2026-06-Two-Stage-D5-20: Non-exhaust emissions in road and railway transport



**Tien Van Do**

**Professor**

Budapest University of Technology and Economics

### Biography

Tien Van Do received the M.Sc. and Ph.D. degrees in telecommunications engineering from the Technical University of Budapest, Hungary, in 1991 and 1996, respectively. He is a professor in the department of Networked Systems and Services, the Budapest University of Technology and Economics. He is a leader of a network technology and application research group. He habilitated at BME, and received the DSc from the Hungarian Academy of Sciences in 2011. He has participated and lead work packages in the COPERNICUS-ATMIN 1463, the FP4 ACTS AC310 ELISA, FP5 HELINET, FP6 CAPANINA projects funded by EC (where he acted as a work package leader).

He led various projects on network planning and software implementations that results were directly used for industry such ATM and IP network planning software for Hungarian Telekom, GGSN tester for Nokia, performance testing program for the performance testing of the NOKIA's IMS product, automatic software testing framework for Nokia Siemens Networks.

### Research Area

His research interests are queuing theory, telecommunication networks, cloud computing, performance evaluation and planning of ICT Systems, machine learning, intelligent transportation systems and autonomous driving systems.

### Personal link

- <https://www.hit.bme.hu/~do/>

### Call topic

- HORIZON-CL5-2026-10-D6-01
- HORIZON-CL5-2026-10-D6-02



**Yong Hoon Kim**

**Associate Professor**  
University of Windsor

### Biography

Dr. Yong Hoon Kim is an Associate Professor in the Department of Civil and Environmental Engineering at the University of Windsor, Canada. He received his B.S. and M.S. degrees in Transportation from the University of Seoul, Korea, in 2003 and 2006, respectively, and his Ph.D. in Civil Engineering from Purdue University, West Lafayette, IN, USA, in 2017. Prior to his doctoral studies, he worked as a Research Engineer at the Seoul Institute in Korea for two and a half years, and later as a Research Associate with the NEXTRANS Center at Purdue University.

Dr. Kim's research expertise lies in connected and autonomous vehicles (CAVs), intelligent transportation systems (ITS), advanced traveler information systems, traffic safety, data analytics for connected transportation systems, artificial intelligence for CAV applications, as well as cybersecurity and mobility data privacy. He has led and collaborated on several research projects funded by the Natural Sciences and Engineering Research Council of Canada (NSERC), advancing innovation in transportation technology and safety.

### Research Area

- Research Interests: Connected and autonomous vehicles (CAVs) and Intelligent transportation systems (ITS)

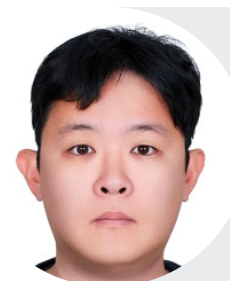
- Funding: NSERC - Enhancing Traffic Efficiency and Passenger Comfort with Deep Learning Beyond Human Driving Capabilities
- NSERC - Connected and Autonomous Vehicles-based signal-vehicle coupled control
- SSHR - Effect of Partially-automated Driving on Driver Cognitive Load: Developing Warning Strategies to minimize Collision Risk
- IP: Earned an IP Strategy Level 1 certification from Intellectual Property Ontario (IPON) in collaboration with Aadhya Navik Inc. (founded by my former student) to develop software solutions enhancing passenger comfort, safety, and traffic efficiency in autonomous vehicles

### Personal link

- <https://www.uwindsor.ca/engineering/civil/122/yong-hoon-kim>

### Call topic

- HORIZON-CL5-2026-10-D6-01: Flagship-pilot: large-scale demonstrations of CCAM (CCAM Partnership)
- HORIZON-CL5-2027-06-D6-04: Holistic solutions for CCAM integration in critical scenarios
- HORIZON-CL5-2027-05-D6-08: Enhancing Mobility for All: affordable, reliable, and accessible multimodal transport for inclusive rural and urban connectivity – Societal Readiness pilot



**Youngmin Kim**

**Senior researcher**

KICT (Korea Institute of Civil Engineering and Building Technology)

### Biography

I'm a researcher of Korea Institute of Civil Engineering and Building Technology (KICT), the only government funded technical institute in civil engineering technology area in Korea. As a researcher in KICT over 10 years, I have many experience of government-funded research project about mobility service such as ITS (Intelligent Transport System) and MaaS (Mobility as a Service). In recent years, my core research project is about implementing mobility service in rural area in Korea, such as introducing DRT (Demand Response Transit) service to overcome digital divide of elderly, and development of road facility system exclusively for AV (Autonomous Vehicle), that utilizes simple machine learning principles to enable AV to recognize information contained in signs using LiDAR measurement data and utilize it for autonomous driving.

Also, I worked three years in strategy division of institute, which activate as a coordinator of new

## Korea-EU Horizon Europe Researchers Networking Forum on Advanced Mobility

research theme and long-term development strategy of my institute. Base on my past experience, I want to get informed for many researchers in my research division (Department of Highway & Transportation Research) about Horizon Europe program.

### Research Area

- Main research fields : Mobility Service, Research Planning and Coordination
- Technological uniqueness : DRT (Demand Response Transit) service sytem prototype for rural area in Korea
- Patent: 16 Korean patents about mobilty service

### Personal link

- <https://www.kict.re.kr/>

### Call topic

- HORIZON-CL5-2026-05-D6-09
- HORIZON-CL5-2026-05-D6-03

## Korea-EU Horizon Europe Researchers Networking Forum on Advanced Mobility

