

## Global Summer School

# AI Empowers Smart Transportation

July 20–26, 2026

Harbin Institute of Technology, Harbin, P.R. China



### Contact Information

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### General Information

Transportation Science and Engineering is a multidisciplinary field bridging foundational science and advanced technologies. The International Summer School in Transportation Engineering offers diverse lectures and seminars covering cutting-edge research, design, and applications in the domain. Participants will gain expertise in areas such as intelligent infrastructure management, sustainable transportation systems, advanced materials for transportation structures, and disaster prevention technologies for cold regions. Through theoretical learning and collaborative research projects, this program provides a platform to explore the frontiers of transportation science, solve complex challenges, and build an international network of academic and professional peers.

### Attendance Requirements

Participants at the undergraduate level, with backgrounds in transportation engineering, civil engineering, mechanical engineering, materials science, geotechnical engineering, or related fields, are encouraged to apply. A good command of English is required for all participants.

### Lectures and Talks (Tentative)

The summer school offers four lectures. Lecturers and speakers are invited from top institutions in the world, including Lehigh University, Waseda University, Lund University, Lancaster University, Technical University Dresden, and Polytechnic University of Turin.

Lecturer/ Speaker	Institution	Topic (preliminary)	Units (50 mins/unit)
Prof. Dan M. Frangopol	Lehigh University, United States	Reliability of Engineering Structures	4 (lecture)
Prof. Mitsuyoshi Akiyama	Waseda University, Japan	Structural Safety	4 (lecture)
Prof. Aliaksei Laurensbyn	Lund University, Sweden	Safe System Approach	4 (lecture)
Prof. Alberto CARPINTERI	Polytechnic University of Turin, Italy	Introduction to Fracture Mechanics	4 (lecture)

### Group Research Project

Participants will be organized into teams of 6–10 members to collaboratively work on research projects addressing key challenges in transportation science and engineering. Each team will select a topic from four focus areas: intelligent design and performance optimization of transportation infrastructure, structural dynamics and disaster resilience, advanced materials for infrastructure durability, and health monitoring of transportation structures. Expert instructors will provide guidance, ensuring a comprehensive and interactive research experience for all participants.

### Program Dates and Times

Week 1 (July 20–26)							
	Mon	Tue	Wed	Thur	Fri	Sat	Sun
M	Seminar		Lecture		Interactive Discussion	Group Research	Tour
A	Lecture		Seminar				

(Registration: July 19, 2026)



Please note that the program schedule is subject to change based on actual circumstances.