

Global Summer School

Intelligent Civil Engineering and Intelligent Construction

July 15–24, 2026

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



Contact Information

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General Information

The development of information technology and artificial intelligence (AI) has endowed civil engineering with a new connotation. Traditional civil engineering is undergoing an intelligent transformation driven by big data and AI. Implementing big data and AI technology to support the transformation and upgrading of infrastructure has become a significant national demand. In-depth research on critical scientific issues related to intelligent civil engineering can contribute to solving problems of human survival and development.

Therefore, focusing on the original theories and key technologies of civil engineering, the following topics will be covered in this summer school:

- (1) Urban and Engineering Structure Resilience Theory
- (2) Implementation of Computer Vision and Deep Learning in Civil Engineering
- (3) Application of Intelligent Materials in Civil Engineering
- (4) Polar and Cold-Region Ice Disaster Prevention and Control Theory; Frozen Soil Disaster Prevention and Control Theory

Attendance Requirements

We plan to recruit outstanding undergraduates from overseas universities:

- Majors: Civil engineering or related science and engineering fields
- Year: Sophomores or above

Lectures and Talks (Tentative)

The summer school offers 1 lecture and 3 seminar talks. Lecturers and speakers are invited from top institutions, including Aalborg University, Far Eastern Federal University, Leibniz University Hannover, University of North Texas, and Harbin Institute of Technology.

Lecturer/Speaker	Institution	Topic (preliminary)	Units (50 mins/unit)
Prof. Michael Havbro Faber	Aalborg University, Denmark	Risk and Safety	2 (talk)
Prof. Michael Beer	Leibniz University Hannover, Germany	AI in Hazard Mitigation and Transportation Engineering	8 (lecture)
Prof. Hui Li	Harbin Institute of Technology, China	Chinese Intelligent Civil Engineering and Intelligent Construction Research Frontier (Part 1)	2 (talk)
Prof. Wenli Chen	Harbin Institute of Technology, China	Chinese Intelligent Civil Engineering and Intelligent Construction Research Frontier (Part 2)	2 (talk)

Group Research Project

Participants will be divided into 6 teams or more, each consisting of 5–10 members. Then we will be organizing a competition where each team is required to complete a model (possibly using wooden strips and glue, based on the challenge provided), after which the conference will conduct loading tests and determine the final rankings.

Program Dates and Times

Time	A.M.	P.M.	Night
DAY 1	Registration	Opening Ceremony + Lesson	Social gathering
DAY 2	Lecture	Lesson	Tour
DAY 3	Lesson	Tour of HIT University History Exhibition	Free Time
DAY 4	Lecture	College Laboratory Visit	Free Time
DAY 5	Lecture	Talk	Free Time
DAY 6	Lecture	Lecture	Free Time
DAY 7		Hands-on Lab Session	Free Time
DAY 8		Hands-on Lab Session	Free Time
DAY 9		Hands-on Lab Session	Free Time
DAY 10	Competition	Closing Ceremony	Free Time

(Registration: July 15, 2026)

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