

INTERNATIONAL SUMMER SCHOOL

INTELLIGENT CIVIL ENGINEERING AND INTELLIGENT CONSTRUCTION

Jun 26th – Jul 9th, 2023

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

GENERAL INFORMATION

The development of information technology and artificial intelligence (AI) endows civil engineering with a new connotation. Traditional civil engineering is developing toward an advanced orientation characterized by big data and AI. Supporting the transformation and upgrading of the infrastructure has become a remarkable national demand by implementing big data and AI technology. The in-depth research on significant scientific issues related to intelligent civil engineering could contribute to solve the problems of human survival and development.

Therefore, due to the focus on the original theories and key technologies of civil engineering, the following topics will be involved 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

PROGRAM DATES AND TIMES

- All the lectures and classes in the summer school will be given in English

	Week 1							Week 2						
	Mon	Tue	Wed	Thur	Fri	Sat	Sun	Mon	Tue	Wed	Thur	Fri	Sat	Sun
8:00 - 11:30	Opening ceremony	Class				Seminar	Innovation competition	Class	Lecture	Class	Seminar	Seminar		
14:00 - 17:30	Lecture		Seminar	Lecture	Tour and social activities		Seminar		Lecture	Tour and social activities		Closing ceremony		

COURSES AND LECTURES

● Lectures

Lecturer	Institution	Lecturer	Institution
Urs Meier	Swiss Federal Laboratories for Materials Science and Technology/Swiss Federal Institute of Technology in Zurich	LI Jun	Curtin University
Subhamoy Bhattacharya	University of Surrey	Stephen Wu	Institute of Statistical Mathematics/The Graduate University for Advanced Studies
CAI Hubo	Purdue University	LI Jian	University of Kansas
Pingbo Tang	Carnegie Mellon University	FENG Chen	New York University

● Seminars

Speaker	Title	Speaker	Title
SHEN Shizhao	Academician of the Engineering Academy	XIE Lili	Academician of the Engineering Academy
LI Hui	Professor	CHEN Wenli	Professor
WANG Yuyin	Professor	XIAN Guijun	Professor
TANG Liang	Professor	BAO Yuequan	Professor
HUANG Yong	Professor		

ATTENDANCE REQUIREMENT

We plan to recruit about 10 outstanding undergraduates from overseas universities

● REQUIREMENT:

- Civil engineering or related science or engineering majors
- Sophomore or above

CONTACT INFORMATION

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