

2023 List of faculty members and their field of study at Department of Civil Engineering Appendix II

Group	Faculty member's name	Field of study	
Transportation engineering and planning	Prof. Eiji Hato	Urban planning and transportation engineering	
	Prof. Takamasa Iryo (PSR)	Network traffic studies	
	Prof. Takashi Oguchi (IIS)	Traffic management and control, Traffic flow analysis, Road geometric design, Mobility innovation	
	Assoc. Prof. Shoichi Suzuki (IIS)	Transport policy	
	Proj. Assoc. Prof. Takahiko Kusakabe	Data-driven travel behavior analysis, Information engineering for transportation systems	
	Assis. Prof. Junji Urata	Computational Transportation Engineering, Evacuation, Social Interaction Behavior	
Spatial information	Prof. Takashi Fuse	Spatial information engineering, Regional dynamics analysis, Integration of measurement and simulation, Photogrammetry, Image processing, 3D visualization	
	Prof. Wataru Takeuchi (IIS)	Remote sensing of environment and disaster, Interaction between terrestrial ecosystem and human society	
	Prof. Tsuyoshi Ichimura (ERI)	Urban and social simulation, Computational science, Computational earthquake engineering/seismology, Convergence of artificial intelligence and physics-based simulation	
	Assoc. Prof. Lalith Wijerathne (ERI)	Computational earthquake engineering, Large-scale simulations of 3D crack propagation, Disaster related urban and economic simulations	
	Assoc. Prof. Kohei Fujita (ERI)	Large-scale earthquake simulation using Fugaku, Computer science algorithm development for utilizing advanced computer architectures	
Infrastructure development and management	Prof. Yoshihide Sekimoto (CSIS)	Large-scale people flow simulation, Development of three-dimensional urban digital twin, Real-time urban monitoring, Computational socio-informatics	
	Prof. Masahide Horita	Infrastructure systems management, Collective decision-making theory, Public procurement, Project delivery systems design	
	Project Assoc. Prof. Pang-jo Chun (DFL)	ICT/AI for Infrastructure maintenance, BIM/CIM, i-Construction system studies	
	Assist. Prof. Yu Maemura (GSFS)	Conflict and negotiation, development aid policy and practice, project evaluation, intercultural communication	
	Proj. Prof. Kazumasa Ozawa (DFL)	Construction project management, i-Construction system studies, Public procurement system	
Design and landscape	Proj. Prof. Muneo Hori (DFL)	Computational earthquake engineering, i-Construction system studies, Applied mechanics	
	Prof. Yu Nakai	Civic design, Landscape design, Civil engineering history	
	Prof. Taikan Oki	Human Geoscience, Water/Climate Change and Sustainable Development, Risk Management on Global Environmental Changes	
	Prof. Yoshimitsu Tajima	Coastal hydrodynamics, Coastal protections and beach topography changes, Mitigations and management of flood disaster	
Hydrosphere and environment	Prof. Fuminori Kato (PSR)	Coastal disaster and erosion management, Coastal structures	
	Prof. Naota Hanasaki (PSR)	Global hydrological modeling incorporating human activities, Climate change impact assessment on water sectors	
	Prof. Kei Yoshimura (IIS)	Isotope meteorology, Land surface processes, Dynamical downscaling, Earth system model development, Civilization and climate change	
	Assoc. Prof. Takenori Shimozone	Coastal hydrodynamics, morpho-dynamics and disaster prevention	
	Assoc. Prof. Dai Yamazaki (IIS)	Hydrology, Global hydrodynamics, Modelling and remote sensing of surface waters, Hydro-topography analysis	
	Assoc. Prof. Yohei Sawada (IEI)	Hydrometeorological disaster prediction, Simulation-observation integration	
	Proj. Prof. Kazuo Oki (IIS)	Global monitoring for ecology and environment, River basin management with RS and GIS	
	Prof. Akiyuki Kawasaki (IFI)	Water disaster and poverty reduction, Water resources management, Global commons stewardship	
	Proj. Prof. Masashi Kiguchi (IFI)	Monsoon variation climatology, Hydrology and climate change, Rainfall phenomena in monsoon Asia	
	Proj. Assoc. Prof. Takao Yoshikane (IIS)	Regional Earth System Modelling, Local-scale weather prediction using AI	
	Project Assist. Prof. Tomoko Nitta (IIS)	Integrated land modeling, Terrestrial hydrological cycles in cold regions, Land-atmosphere coupling	
	Infrastructure technology and design (A)	Prof. Reiko Kuwano (IIS)	Laboratory soil test, Long-term behavior of buried/earth structure, Ground cave-in, Internal erosion
		Assoc. Prof. Kenji Watanabe	Seismic stability of earth structure, Liquefaction, Scour and erosion, Geosynthetics reinforced -soil structure, slope stability, compaction
Assoc. Prof. Takashi Kiyota (IIS)		Geo-disaster mitigation engineering, Field damage survey, Liquefaction assessment, Landslide	
Assist. Prof. Hirovuki Kvakawa		Constitutive modeling of geomaterials, Multiphysics theory of geomaterials	
Infrastructure technology and design (B)	Prof. Takeshi Ishihara	Wind engineering, Wind energy, Typhoon disaster mitigation, Computational fluid dynamics, Structural dynamics	
	Prof. Tetsuya Ishida	Nonlinear mechanics of aging concrete, Multi-scale and multi-chemo-physics of structural concrete, 3D Printing technology of cementitious materials, Data-driven maintenance management of concrete structures	
	Prof. Tomonori Nagayama	Bridge engineering, Structural control and monitoring, Integration of structural and vehicular dynamic models and observation, Structural load	
	Prof. Toshiharu Kishi (IIS)	Material science of concrete, Durability of RC structures, Self-healing concrete, Fresh property, Rheology	
	Assoc. Prof. Yuya Takahashi	Durability mechanics of reinforced concrete structure, Fatigue, Combined Deterioration, Maintenance Management of Load Structures, New Structure with Concrete	
	Assoc. Prof. Kohei Nagai (IIS)	Concrete engineering, Meso-scale analysis, Fiber, Reinforced cementitious composite, Anchorage performance of RC, Infrastructure management	
	Assoc. Prof. Tsukasa Mizutani (IIS)	3D Internal Visualization Technology of Infrastructure, Vibration, Monitoring, Digital Signal Processing, Ground Penetrating Radar, Laser, Electromagnetic Measurement, Next-Generation-Cyber-Infrastructure	
	Assoc. Prof. Yuya Sakai (IIS)	Construction materials engineering, Recycling, Nondestructive testing, Mass transfer in concrete, Highspeed impact test	
	Proj. Assoc. Prof. Di Su	Structural simulation, Dynamics of bridge structures, Structural health monitoring	
	Project Assist. Prof. Go Igarashi (UCRL)	Numerical simulation on structural performance of new cementitious materials and structure, Long-term durability of construction materials	
	Project Assist. Prof. Yuka Kikuchi (UCRL)	Wind engineering and structure dynamic analysis, Anomaly detection of wind turbine, Assessment of wind energy cost	
International project	Prof. Hironori Kato	International transportation studies, Transportation planning, Transportation policy, Transportation economics, Transportation finance	
	Prof. Daisuke Fukuda	Planning theory for smart city/mobility, International standardization of smart city/mobility, Evaluation of transportation network reliability, Data engineering for urban redesign	
	Assoc. Prof. Shunsaku Komatsuzaki	Public policy studies, Institutional studies on infrastructure development, Social innovation, Case study of international project	
	Assist. Prof. So Morikawa	Public administration, Public policy, Participatory and anticipatory governance	
	Prof. Riki Honda (GSFS)	Social resilience, Social network, Earthquake engineering, Technology transfer, Sustainable management engineering	
	Adjunct members: Prof. Taikan Oki , Prof. Kimiro Meguro , Prof. Wataru Takeuchi		
Earthquake and disaster mitigation engineering	Prof. Kimiro Meguro (IIS/III)	Comprehensive disaster management strategy, Structural and non-structural countermeasures for disaster reduction, International cooperation for disaster reduction	
	Assoc. Prof. Muneyoshi Numada (IIS/III)	Disaster Process Engineering, Disaster management, Training/ Educational system	

Note 1: ○ represents a concurrent professor. Concurrent professors cooperate with delivering lectures at graduate school of civil engineering, however, they are not in charge of students' dissertation guidance as a general.
 Note 2: Principal affiliation of faculty member is as follows; (IIS) Institute of Industrial Science, (ERI) Earthquake Research Institute, (GSFS) Graduate School of Frontier Sciences, (CSIS) Center for Spatial Information Science, (IFI) Institute for Future Initiatives, (GSI) Graduate School of Interdisciplinary Information Studies, (IEI) Institute of Engineering Innovation, (UCRL) University-Community Relations Laboratory, (DFL) Donated Fund Laboratory, (PSR) Research Unit of Visiting Professor for Specific Research
 Note 3: The supervisors in each group will be decided after consultation. The research content is just an example, and the research theme of the student is decided after admission.