

Technological Directory - Graduate School and Faculty of Engineering (2020)

Department of Civil Engineering and Urban Design

| Discipline | Field | Expertise | Keyword 1 | Keyword 2 | Keyword 3 | Open to consultations on | Lab | Researcher | Related researchers |
|-------------|----------------------------------|---|---|-----------------------------|---|---|---------------------------------------|-------------------------------------|-------------------------------------|
| Engineering | Civil engineering | Construction materials, structural engineering, maintenance engineering | Concrete structures | Maintenance engineering | Earthquake resistant design | Mechanical properties of concrete structures and their design/maintenance of concrete structures/applications of new materials in the field of concrete engineering | Concrete Structure Lab. | Susumu INOUE, Professor | Yasuhiro MIKATA, Professor |
| Engineering | Civil engineering | Traffic engineering and land planning | Urban and regional economics | Industrial location | Industrial complex and industrial development facilities planning | Providing locations for businesses and technologies that support urban and regional economies, and the planning skills relevant for the placement and furnishing of their facilities | Urban and Regional Planning Lab. | Yoshikazu IWASAKI, Professor | |
| Engineering | Civil engineering / architecture | Traffic engineering and land planning/urban planning and architectural planning | Environmental design | Urban and regional planning | Landscape | Principle and practice of universal design/ Theory of the Time-Space and methodology/ Application of the geographic information system (GIS) for the spatial management of heritage sites/ GIS, CAD and CG technologies | Spatial Design Lab. | Kazunari TANAKA, Professor | |
| Engineering | Civil engineering | Structural engineering | Hybrid structures | Fire | Strength (load carrying capacity) | Fire resistance of hybrid structures/development of new types of steel and concrete hybrid bridges | Bridge Engineering Lab. | Osamu OHYAMA, Professor | Yusuke IMAGAWA, Assistant Professor |
| Engineering | Civil engineering | Geotechnical engineering | Soil mechanics and foundation engineering | Geotechnical disasters | Geoenvironment | Geomaterial/ ground improvement/ earth structure/ geoenvironment pollution/ ground vibration/ soil exploration and test | Geotechnical Disaster Prevention Lab. | Kazuaki HIOKI, Professor | |
| Engineering | Civil engineering | Construction materials, structural engineering, maintenance engineering | Concrete structures | Maintenance engineering | Strength (load carrying capacity) | Inspection, diagnosis, assessment of existing loading capacity, repair method and strengthening system for concrete structures/ Shear capacity of concrete structures and their design | Concrete Structure Lab. | Yasuhiro MIKATA, Professor | Susumu INOUE, Professor |
| Engineering | Civil engineering | Traffic and transport planning, Urban and regional planning, Surveying | Planning system | local collaborative action | Location information | Design for planning process of infrastructure/ Local collaborative action for community development/ Use of location information | Infrastructure Planning Lab. | Yukikazu YAMAGUCHI, Professor | |
| Engineering | Civil engineering | Hydraulic engineering | Hydro-geoenvironmental hazards | Floodplain management | Coastal and port structures | Field measurements of hydro-geoenvironment/Risk assessment of flood-prone area/tsunami damage mitigation methods/tsunami disaster education | Water disaster Engineering Lab. | Ryoukei AZUMA, Associate Professor | |
| Engineering | Civil engineering | Structural engineering | Steel and composite structures | Maintenance engineering | Fire | Maintenance of steel and composite bridges/ diagnosis and repair method of bridges exposed to fire | Bridge Engineering Lab. | Yusuke IMAGAWA, Assistant Professor | Osamu OHYAMA, Professor |

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|-------------|-------------------|--|-------------------------------|-----------------------------|-----------------------------|--|--|--------------------------------------|---------------------|
| Engineering | Civil engineering | Hydraulic, Hydrology and Hydro-environmental engineering | Flood management | River Ecosystems | Data Assimilation | Flood prediction/ Flood risk management/ Flood risk assessment/ Disaster prevention and Mitigation/ Climate change/ global warming/ Water Resource / Conservation and restoration of the natural river environment/hydraulic measurement of rivers | Hydrospheric science and hydroengineering Lab. | Kohji TANAKA, Professor | |
| Engineering | Civil engineering | Geotechnical engineering | Soil mechanics and foundation | Earth structure | Earthquake resistant design | Geotechnical investigation and design, Geomaterial, Slope stability, Seismic response | Geotechnical and Geoenvironmental Engineering Lab. | Tetsuo FUJIMOTO, Associate Professor | |
| Engineering | Civil engineering | Disaster Prevention Engineering / Geography | Disaster Management | Spatial Information Science | Environmental System | Material stock flow analysis in urban area with GIS and remote sensing / Evaluation of regional resilience for large scale natural disaster | Urban Disaster Prevention Engineering Lab. | Kenji SUGIMOTO, Assistant Professor | |