

Civil and Environmental Engineering Program (M, D)

Department: Civil and Environmental Engineering

Research group	Supervisor	Research theme
		E-mail address
Structural Engineering, Materials, and Informatics	Prof. Kazuo Tateishi	Steel bridge engineering, Maintenance of steel structures, Fatigue and fracture of steel bridges, Mechanics of steel-concrete composite structures tateishi@civil.nagoya-u.ac.jp
	Prof. Hikaru Nakamura	Concrete structure, Seismic design of concrete structure, Maintenance and durability of concrete structure, Nonlinear analysis of concrete structure, Nondestructive test of concrete hikaru@nagoya-u.jp
	Assoc. prof. Yasuo Kitane	Maintenance engineering of steel structure, Structural applications of FRP composites, Structural behavior of civil steel structures subjected to extreme loading ykitane@civil.nagoya-u.ac.jp
	Assoc. prof. Takeshi Hanji	Fatigue and fracture of steel structures, Repair and retrofitting technique for cracked steel members, Seismic assessment and rehabilitation of steel bridges, Applications of image technique to infrastructures hanji@civil.nagoya-u.ac.jp
	Assoc. prof. Yoshihito Yamamoto	Numerical modeling of concrete and reinforced concrete, Failure and collapse simulation of concrete structures, Aging on concrete structures. Safety and restorability under extreme loadings (earthquake, impact, fire...) y.yamamoto@civil.nagoya-u.ac.jp
	Assoc. prof. Mikihiro Hirohata	Structural mechanics, Steel structures, Welding, Application of welding on maintenance, repair and reinforcement of steel structures, Soundness evaluation of welded structures, Simulation of welding mechanics hirohata@civil.nagoya-u.ac.jp
Hydraulics, Hydrology, Coastal, and Ocean Engineering	Prof. Norimi Mizutani	Stability of coastal structures, Wave deformation due to coastal and offshore structures and wave forces, Tsunami disaster and mitigation, Sediment transport and beach deformation mizutani@civil.nagoya-u.ac.jp
	Prof. Yuji Toda	River engineering, Fluvial hydraulics with riparian vegetation, Eco-hydraulics, Numerical modeling of river eco-system ytoda@cc.nagoya-u.ac.jp
	Assoc. prof. Tomoaki Nakamura	Stability of coastal structures and their foundation considering dynamic interaction between waves, structure motion, sediment transport, and seabed response; Tsunami-induced topographic change tnakamura@nagoya-u.jp
	Assoc. prof. Ryota Tsubaki	Advanced field monitoring of fluid flow and sediment transport, High resolution inundation flow simulation and its application to mitigate physical and environmental risks rtsubaki@civil.nagoya-u.ac.jp
Geotechnical Engineering	Prof. Masaki Nakano	Mechanical evaluation and quality certification for natural and artificial soil materials based on soil skeleton structure concept, Interpretation of the soil strengthening methods such as solidification, compaction etc. of various soil materials, Constitution of "sediment circulation system" considering utilization of soil materials at ordinary times as well as disaster periods nakano@civil.nagoya-u.ac.jp
	Prof. Toshihiro Noda	Soil-water-air coupled finite deformation analysis of saturated/unsaturated soils taking into consideration inertial forces, Interpretation/development of the countermeasure principles of ground improvements, Seismic response analysis of natural deposited and artificial grounds, Numerical replication of natural deposited grounds noda@nagoya-u.jp
	Assoc. prof. Shotaro Yamada	Progressive failure of grounds accompanying strain localization, Elasto-plastic description of mechanical behavior of a wide variety of soils, Fault rupture problems s-yamada@civil.nagoya-u.ac.jp
	Assoc. prof. Kentaro Nakai	Comprehension of dynamic/static behavior of various soils and their elasto-plastic description, Seismic response analysis of ground-structure interaction systems nakai@civil.nagoya-u.ac.jp

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Transportation, Infrastructure, and Environmental Planning	Prof. Toshiyuki Yamamoto	Vehicle ownership and use, Travel behavior analysis, Environmentally sustainable transport (EST), Intelligent transport system (ITS), Traffic safety yamamoto@civil.nagoya-u.ac.jp
	Assoc. prof. Tomio Miwa	Transportation planning, Travel behavior analysis, Intelligent transport systems, Traffic assignment models and traffic simulators miwa@nagoya-u.jp
Environmental and Environmental System Engineering	Prof. Arata Katayama	Microbial remediation of contaminated soil and water, Evaluation of remediation technologies, Reclamation of organic wastes a-katayama@esi.nagoya-u.ac.jp
	Prof. Kiichiro Hayashi	Environmental policy, Environmental assessment, Biodiversity and ecosystem service assessment, International environmental cooperation maruhaya@esi.nagoya-u.ac.jp
Ground Design	Lecturer Shinichiro Nakamura	Climate change adaptation in developing country, Land design on river basin, Green infrastructure design shinichiro@civil.nagoya-u.ac.jp