

Faculty List of The Forefront Studies Program on GLOCAL Civil Engineering Leaders for Co-Development of Asia and Japan 2024

NOTE: Professors with parenthesis are not eligible for being supervisors

Nagoya University

Department: Civil and Environmental Engineering, Graduate School of Engineering

Research group	Name of professors	Research theme E-mail address
Structural Engineering, Materials, and Informatics	Prof. Junji Kato	Numerical simulation and optimal design for structures, Topology optimization for advanced material design, Finite element method for material/kinematic nonlinearity and dynamics, Innovative design and manufacturing with 3D printer, Reduced order-based data science junjikato@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100010137_en.html)
	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 (https://profs.provost.nagoya-u.ac.jp/view/html/100000391_en.html)
	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@cc.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100000439_en.html)
	Assoc. prof. Takeshi Hanji	Steel structures, 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, Welding hanji@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100000401_en.html)
	Assoc. prof. Taito Miura	Multi-scale mechanical modelling for cementitious materials, Mesoscale chemo-mechanical analysis for chemical deterioration and fracture of cementitious materials, Expansion cracking mechanism due to ASR/DEF Reduction mechanism of compressive behaviors of concrete due to cracks with different directionality and dispersibility t.miura@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100007041_en.html)
	Assoc. prof. Koji Nishiguchi	Numerical simulation of structural dynamics, nonlinear materials, and fluid-structure interaction problems, High-performance computing kojinishiguchi@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100011123_en.html)
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 (https://profs.provost.nagoya-u.ac.jp/view/html/100001782_en.html)
	Prof. Yuji Toda	River engineering, Fluvial hydraulics with riparian vegetation, Eco-hydraulics, Numerical modeling of river eco-system

		ytoda@cc.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100000389_en.html)
	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 (https://profs.provost.nagoya-u.ac.jp/view/html/100003534_en.html)
	Assoc. prof. Ryota Tsubaki	Advanced field monitoring of fluid flow and sediment transport, Development of river channel morphology control approach, High resolution inundation flow simulation and its application to mitigate physical and environmental risks rsubaki@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100002186_en.html)
	Lecturer Yonghwan Cho	Stability against waves and topographical change characteristics of mixed sediments along the coast, High efficiency of wave power generation, Stability evaluation of coastal structures yhcho@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/html/100008542_en.html)
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 (https://profs.provost.nagoya-u.ac.jp/view/html/100001846_en.html)
	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@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100001858_en.html)
	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, Influence of stratum irregularity on subsurface seismic damage nakai@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100002123_en.html)
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 (https://profs.provost.nagoya-u.ac.jp/view/html/100003668_en.html)
	Assoc. prof. Tomio Miwa	Transportation planning, Travel behavior analysis, Intelligent transport systems, Traffic assignment models and traffic simulators miwa@nagoya-u.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100002160_en.html)
Environmental Engineering and Environmental System Engineering	Prof. Kiichiro Hayashi	Environmental policy, Environmental assessment, Biodiversity and ecosystem service assessment, International environmental cooperation maruhaya98--@nagoya-u.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100002276_en.html)
Land and Infrastructure Design	Prof. Takashi Tomita	Critical infrastructure planning and regional potential development for sustainable and resilient society, Tsunami and storm surge disaster risk reduction

		tomita.takashi@nagoya-u.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100009161_en.html)
	Assoc. prof. Shinichiro Nakamura	Climate change adaptation in developing country, Land design on river basin, Green infrastructure design shinichiro@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100008109_en.html)
	Lecturer Mutsumi Tashiro	Road design on soft ground, Traffic management, Mobility services mutsumi@civil.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/html/100003281_en.html)

Nagoya University

Department: Environmental Engineering and Architecture, Graduate School of Environmental Studies

Research group	Name of professors	Research theme
		E-mail address
Transportation, Infrastructure, and Environmental Planning	Prof. Hideki Nakamura	Traffic Engineering, Urban transport policy, Road geometric design, Traffic operation, Traffic safety, User behavior modeling, Traffic simulation model, ITS nakamura@genv.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100001907_en.html)
	Prof. Hirokazu Kato	Low carbon & sustainable transport system, Environmental life cycle assessment of social stock, Resilient national & urban design, Region revitalization strategies kato@genv.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100001937_en.html)
	Assoc. prof. Miho Iryo	Traffic flow and safety analysis of vehicles and pedestrians, Road design for multimodal transport, Traffic simulation development m-iryu@urban.env.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100002248_en.html)
	Lecturer Xin Zhang	Evaluation of junction design and traffic signal control, Road user maneuver modeling, Traffic simulation zhang@genv.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/html/100011008_en.html)
Environmental Engineering and Environmental System Engineering	Prof. Hiroki Tanikawa	Environmental system analysis, Resource and Energy Flow for Sustainable Cities, Material Stock and Flow analysis, Weight of cities overtime with 4d-GIS, Socio economical metabolism, Industrial Ecology tanikawa@nagoya-u.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100003784_en.html)
	Prof. Takashi Hibino	Electricity and hydrogen generation technology, Municipal solid waste treatment, Multifunctional cementitious materials design hibino@urban.env.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100001816_en.html)
	Assoc. prof. Hiroaki Shirakawa	Analysis for economic and environmental interdependency among countries in the world, Evaluation of efficiency of urban environmental management, Economic evaluation of environmental policy sirakawa@urban.env.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100003279_en.html)
	Assoc. prof. Nagahisa Hirayama	Disaster prevention & preparedness in water system, Business continuity planning & risk communication for water utility, Redesign for water distribution system, Disaster debris management system hirayama.nagahisa@nagoya-u.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100009184_en.html)

	Assoc. prof. Hiroto Shiraki	Energy consumption behavior analysis, Technological and economic assessment of climate change mitigation measures, Power and energy system analysis using mathematical models shiraki@urban.env.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/html/100012879_en.html)
	Assoc. prof. Sho-ichi Iwamatsu	Transformation technologies for organic substances, Greener synthetic methodologies of artificial materials. Sustainable utilization of materials. iwmt@urban.env.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100003265_en.html)
	Assoc. prof. Anatoly Zinchenko	Functional materials from biomass and plastic waste, Environmental pollution cleaning, Nanomaterials and environmental nanotechnologies, Sustainable chemical processes and materials upcycling technologies zinchenko@urban.env.nagoya-u.ac.jp (https://profs.provost.nagoya-u.ac.jp/view/html/100003298_en.html)

Gifu University

Department: Engineering Sciences (Civil Engineering Group)

Research Labs.	Name of professors	Research theme E-mail address
Composite Structure	Assoc. Prof. Koji Kinoshita	Steel Structural Engineering, Fracture Mechanics, Earthquake Engineering kinoshita.koji.m2@f.gifu-u.ac.jp (https://researchmap.jp/read0126014)
Bridge Engineering	Prof. Shigeyuki Murakami	Bridge Engineering, Maintenance, Steel Structure murakami.shigeyuki.e8@f.gifu-u.ac.jp (https://researchmap.jp/read0119571)
Earthquake Engineering Research	Prof. Nobuoto Nojima	Earthquake Engineering, Seismic Hazard and Risk Assessment, Lifeline Disaster Prevention nojima.nobuoto.p6@f.gifu-u.ac.jp (https://researchmap.jp/NobuotoNojima)
	Assoc. Prof. Masumitsu Kuse	Earthquake Engineering, Prediction of Ground Motion, Earthquake Disaster Prevention kuse.masumitsu.h8@f.gifu-u.ac.jp (https://researchmap.jp/read0066255)
	Assoc. Prof. Maki Koyama	Regional Disaster Management Studies, Disaster Science koyama.maki.v8@f.gifu-u.ac.jp (https://researchmap.jp/makik)
Environmental Hydrology	Assoc. Prof. Toshiharu Kojima	Runoff Analysis, Remote Sensing, GIS kojima.toshiharu.y5@f.gifu-u.ac.jp (https://researchmap.jp/toshi-kojima)
Basin Hydrology Dynamics	Prof. Ichiro Tamagawa	Meteorology, Environmental Science, Atmospheric Boundary Layer, Land Surface Process tamagawa.ichiro.e0@f.gifu-u.ac.jp (https://researchmap.jp/read0059943)
	Assoc. Prof. Morihiro Harada	River Engineering, Sediment Hydraulics harada.morihiro.i3@f.gifu-u.ac.jp (https://researchmap.jp/morihiro_harada)
Natural Energy	Prof. Tomonao Kobayashi	Mesoscale Weather Forecasting Model, Ocean Wave Model, Weather Forecast, Ocean Wave Prediction kobayashi.tomonao.e2@f.gifu-u.ac.jp (https://researchmap.jp/read0027450)

	Prof. Jun Yoshino	Meteorology, Natural Energy, Atmospheric Disaster, Coastal Engineering yoshino.jun.d2@f.gifu-u.ac.jp (https://researchmap.jp/read0203133)
Soil Mechanics and Earth Science	Prof. Kazuhide Sawada	Geotechnical Engineering sawada.kazuhide.w4@f.gifu-u.ac.jp (https://researchmap.jp/read0066254)
	Prof. Tomoyuki Ohtani	Geology, Engineering Geology, Geothermal Resource Geology ohtani.tomoyuki.g9@f.gifu-u.ac.jp (http://www.eng.gifu-u.ac.jp/syakaikiban/e/staff/ohtani_tomoyuki.html)
Geotechnical and Groundwater Engineering	Prof. Kohji Kamiya	Soil Mechanics, Groundwater Management kamiya.koji.g6@f.gifu-u.ac.jp (https://researchmap.jp/read0180913)
	Assoc. Prof. Yuki Kojima	Environmental Soil Physics, Environmental Geotechnical Engineering kojima.yuki.c8@f.gifu-u.ac.jp (https://researchmap.jp/ykojima)
Regional Management	Prof. Akiyoshi Takagi	Regional Management, Integrated Disaster Risk Management takagi.akiyoshi.d6@f.gifu-u.ac.jp (https://researchmap.jp/akiyoshi_takagi)
Mobility Analytics	Prof. Fumitaka Kurauchi	Transport Network Analysis, Traffic Control and Management, Public Transport System Design kurauchi.fumitaka.c3@f.gifu-u.ac.jp (https://www.researchgate.net/profile/Fumitaka_Kurauchi)
	Assoc. Prof. Toshiyuki Nakamura	Urban Transport Planning, Behavioristics nakamura.toshiyuki.b9@f.gifu-u.ac.jp (https://researchmap.jp/7000009217)
Humanized Landscape	Prof. Yoshifumi Demura	Urban Landscape, History of City Formation, Infrastructure Planning demura.yoshifumi.e8@f.gifu-u.ac.jp (https://researchmap.jp/demu)
Maintenance Engineering	Prof. Koichi Kobayashi	Maintenance Engineering, Construction Materials kobayashi.koichi.b5@f.gifu-u.ac.jp (https://researchmap.jp/read0193381)
Advanced Construction Materials and Structures	Prof. Minoru Kunieda	3D Concrete Printing, High Performance Concrete (Fiber Reinforced Concrete, Polymer Concrete, Repair Materials), Fracture Mechanics of Concrete, Maintenance of Concrete Structures kunieda.minoru.r3@f.gifu-u.ac.jp (https://researchmap.jp/mkunieda)
Water Environment Research	Prof. Fusheng Li	Water Treatment, Environmental Engineering li.fusheng.i4@f.gifu-u.ac.jp (https://researchmap.jp/2453)
	Assoc. Prof. Kayako Hirooka	Water Treatment Engineering hirooka.kayako.y7@f.gifu-u.ac.jp (https://researchmap.jp/khirooka)
	Assoc. Prof. Yuji Suzuki	Environmental Engineering, Water Quality Engineering, Analytical Chemistry suzuki.yuji.p3@f.gifu-u.ac.jp (https://researchmap.jp/yusuzu)