

G30 自動車工学プログラム / Automotive Engineering Program

卒業研究配属および卒研テーマ / List of Laboratories available at the 4th year with the research project samples

学科名: 機械・航空宇宙工学科 / Department of Mechanical and Aerospace Engineering

研究グループ名(英語) / Group	卒研テーマ(英語) / Research project	研究室URL / Laboratory URL	指導教員 / Supervisor	連絡先 / Contact person	Mail address
Material Characterization & Mechanics	Effect of high-density electric current on the material strength of TiAl alloy	http://www.mech.nagoya-u.ac.jp/ju/index_E.html	Yang Ju	Yang Ju	ju<at>mech.nagoya-u.ac.jp
Manufacturing Engineering	High-Precision/High-Efficiency Machining and Machine Tool	http://www.mech.nagoya-u.ac.jp/upr/English/index.html	Eiji Shamoto	Eiji Shamoto	shamoto<at>mech.nagoya-u.ac.jp
Manufacturing Process	Ultra low friction and high wear resistance coatings for advanced automobiles	http://ume.mech.nagoya-u.ac.jp/	Noritsugu Umehara	Noritsugu Umehara	ume<at>mech.nagoya-u.ac.jp
Energy and Environmental Engineering	Development of efficient biomass gasification technology in packed bed gasifier	http://www.mech.nagoya-u.ac.jp/naruse/	Ichiro Naruse Ryo Yoshiie Yasuaki Ueki	Ichiro Naruse Ryo Yoshiie Yasuaki Ueki	naruse<at>imass.nagoya-u.ac.jp ryo.yoshiie<at>mae.nagoya-u.ac.jp ueki<at>imass.nagoya-u.ac.jp
Statistical Fluid Engineering	On the intelligent active control of mixing and diffusion process in an axisymmetric air jet flow	http://www.mech.nagoya-u.ac.jp/sfe/	Yasumasa Ito	Yasumasa Ito	yito<at>nagoya-u.jp
Thermal Control Engineering	Advanced thermal management technology for next-generation automobiles	http://www.eess.mech.nagoya-u.ac.jp/index.html	Hosei Nagano Kazuhiro Yamamoto	Hosei Nagano Kazuhiro Yamamoto	nagano<at>mech.nagoya-u.ac.jp kazuhiro<at>mech.nagoya-u.ac.jp
Biomechanics	Study on the Response of Cells and Tissues to Mechanical Environment	http://bio.mech.nagoya-u.ac.jp/	Takeo Matsumoto	Takeo Matsumoto	takeo<at>mech.nagoya-u.ac.jp
Safety Intelligence	Investigation into Cognitive Characteristics in The Use of Personalcare Robots	http://www.mech.nagoya-u.ac.jp/asi/en/research/			
Vehicle Safety Engineering	Optimization of crash pulse for reduction of injury risk to vehicle occupants	http://www.mech.nagoya-u.ac.jp/en/laboratories/human.html	Koji Mizuno	Koji Mizuno	kmizuno<at>mech.nagoya-u.ac.jp
Intelligent Robotics	Robot Technologies for Human Assistance	http://www.mein.nagoya-u.ac.jp/index.html	Yasuhisa Hasegawa	Yasuhisa Hasegawa	hasegawa<at>mein.nagoya-u.ac.jp
Biorobotics and Biomedical Engineering	MEMS Sensor for Detection of Biological Signals of Driver	http://www.biorobotics.mech.nagoya-u.ac.jp/index_e.html	Hisataka Maruyama	Hisataka Maruyama	hisataka.maruyama<at>mae.nagoya-u.ac.jp
MEMS and Micromachining	Micromachining of thin film metallic glasses and those application for MEMS sensors	http://mnp.mech.nagoya-u.ac.jp/	Seiichi Hata	Seiichi Hata	hata<at>mech.nagoya-u.ac.jp
Micro Thermal-Fluids Engineering	Analysis on molecular behavior in high Knudsen number flows	http://www.mech.nagoya-u.ac.jp/mtfe/index_e.htm	Hiroki Yamaguchi	Hiroki Yamaguchi	hiroki<at>nagoya-u.jp
Computational Mechanics	Shape Optimization Analyses of Vehicle Interior Sound Fields	http://www.matsumoto.nuem.nagoya-u.ac.jp/	Toshiro Matsumoto	Toshiro Matsumoto	t.matsumoto<at>nuem.nagoya-u.ac.jp
Mechanical System Dynamics	Modeling and Parameter Estimation of Inlet and Outlet Boundary of Fluid-Structure Coupled Turbo Machinery Using Machine learning approach	http://www.nuem.nagoya-u.ac.jp/inouelab/	Tsuyoshi Inoue	Tsuyoshi Inoue	inoue<at>nuem.nagoya-u.ac.jp
Sensing Engineering	Micro/Nano sensing for MEMS, advanced machines, and bio-applications	http://ayame.fukuzawa.nuem.nagoya-u.ac.jp/pg43.html	Kenji Fukuzawa	Kenji Fukuzawa	fukuzawa<at>nuem.nagoya-u.ac.jp
Dynamical Systems Control	Mathematical Theory for Control Systems	http://www.ctrl.mae.nagoya-u.ac.jp/	Toru Asai	Toru Asai	asai<at>nuem.nagoya-u.ac.jp
Biomechanical Control	Machine Learning and Data Science	https://www.mlds.mae.nagoya-u.ac.jp/index_en.html	Ichiro Takeuchi	Ichiro Takeuchi	ichiro.takeuchi<at>mae.nagoya-u.ac.jp
	Multimode multi-user equilibrium assignment for efficient and low emission traffic flow	http://www.uno.nuem.nagoya-u.ac.jp/index_en.html	Kouichi Taji	Kouichi Taji	taji<at>nuem.nagoya-u.ac.jp
Mobility System	Personalized assistance system design for future vehicle	http://www.suzlab.nuem.nagoya-u.ac.jp/index_e.html	Tatsuya Suzuki	Tatsuya Suzuki	t_suzuki<at>nuem.nagoya-u.ac.jp
	Synthesis and control of automated vehicle				
Structural Mechanics	Characterization and Optimum Design of Advanced Composite Materials	http://str.nuae.nagoya-u.ac.jp/index.html	Masahiro Arai	Masahiro Arai	arai<at>nuae.nagoya-u.ac.jp
Shock Wave and Space Propulsion Laboratory	Boundary layer interaction in high-speed flows	http://akagi.nuae.nagoya-u.ac.jp/	Akihiro Sasoh	Akihiro Sasoh	akihiro.sasoh<at>mae.nagoya-u.ac.jp
Solid Mechanics	Stress and deformation analysis of soft materials	http://www.mech.nagoya-u.ac.jp/mml/	Dai Okumura	Dai Okumura	dai.okumura<at>mae.nagoya-u.ac.jp
Aerospace Vehicle Dynamics	Multicopter system Attitude and orbit control for small satellites	http://nanosat.nuae.nagoya-u.ac.jp/index_en.html	Shigeru Sunada Takaya Inamori	Shigeru Sunada Takaya Inamori	shigeru.sunada<at>mae.nagoya-u.ac.jp inamori<at>nuae.nagoya-u.ac.jp
Advanced Composites Materials	A study on mechanical and thermal properties of advanced composite materials and their applications	http://advcomps.nuae.nagoya-u.ac.jp/	Atsuhiko Yamanaka	Atsuhiko Yamanaka	yamanaka<at>ncc.engg.nagoya-u.ac.jp
Control Systems Engineering	Advanced control problems related to aircraft and spacecraft	http://jupiter.nuae.nagoya-u.ac.jp	Susumu Hara	Susumu Hara	haras<at>nuae.nagoya-u.ac.jp
Propulsion and Energy Systems Engineering	Detonation and Its Application to Aerospace Propulsion System	http://www.prop.nuae.nagoya-u.ac.jp/	Jiro Kasahara	Jiro Kasahara	kasahara<at>nuae.nagoya-u.ac.jp
Fluid Dynamics	Numerical simulation and experiments on turbulent flows	https://www.fdl.mae.nagoya-u.ac.jp/	Koji Nagata	Koji Nagata	nagata<at>nagoya-u.jp

* Please change <at> to @ in an email address of each faculty member.