

Tokyo Tech Summer Program 2019

	Academic supervisors		Participants' research projects
1	Associate Professor	Tamas Kalman	Patterns in the Homfly polynomial
2	Associate Professor	Takashi Hirasawa	Bioproduction of Lactate by <i>Saccharomyces cerevisiae</i> Using Glycerol As a Carbon Source
3	Associate Professor	Atsushi Kawakami	Expression analysis of Macrophage Factor Candidates during Zebrafish Regeneration
4	Professor	Yasuharu Koike	Offline classification of hand grasp motions from scalp electroencephalography (EEG)
5	Associate Professor	Gen Endo	Development of a Practical Robotic Follower to Support Home Oxygen Therapy Patients
6	Professor	Mamoru Tanahashi	Large-scale Clustering of Fine Scale Eddy in Near-wall Turbulence
7	Professor	Yusuke Shimoyama	Crystal Structure of Theophylline Treated in Supercritical Carbon Dioxide
8	Professor	Naoaki Okazaki	Unsupervised style transfer for formality of text
9	Associate Professor	Bunei Sato	Searching for an exoplanet using radial-velocity technique
10	Associate Professor	Yasunori Muromachi	A Study on Congestion Pattern on Japan Expressway
11	Associate Professor	Hiroki Akasaka	Cold Spray: Copper and Nylon Matrix Nanocomposites
12	Associate Professor	Daisuke Akita	Waveriders for Low-Cost Hypersonic Transportation Systems
13	Professor	Motomu Nakashima	Characterization of the Swimming Motion of a Swimmer with a Transradial Amputation for the Design and Development of a Swimming Paddle
14	Professor	Hilofumi Yamamoto	A study on individual differences in contemporary Japanese colloquial expressions
15	Professor	Hidehiko Masuhara	Some Optimizations of KaniCUDA ? a program synthesizer for GPGPU language
16	Associate Professor	Takahiro Shinozaki	Survey of CMA-ES as Hyperparameter Optimizer for Reinforcement Learning Algorithms
17	Associate Professor	Hiroki Nakanishi	Survey of Ballistics Simulations of Hyper-velocity Projectile Impact and Ejecta Formation on Whipple-Shields
18	Professor	Kei Sakaguchi	Performance Measurement on mmWave V2V Communications with Multiple Vehicles
19	Professor	Shoen Kume	Implementation of Petaka G3 Device for Induced Pluripotent Stem Cell Culture
20	Professor	Ichiro Yamanaka	Effects of Carbon Supports on Co/P4VPy Electrocatalysts for the Electrochemical Reduction of CO ₂ to CO
21	Professor	Hiroshi Kimura	Histone modification dynamics during myoblast differentiation and in response to metabolites
22	Professor	Nobuyuki Kawai	Characterizing the Activity State of Cyg X-1, a Black Hole X-ray Binary
23	Associate Professor	Namhai Pham	Sputtering Growth and Characterization of BiSb Thin Films For Spin Orbit Torque MRAM
24	Associate Professor	Shinsuke Miyajima	The study of temperature dependent effective lifetime and solar cell performance of amorphous silicon heterojunction solar cells made with facing target sputtering system
25	Associate Professor	Hiroki Nakahara	Gesture Controlled Robotics With Deep Learning: Toward ROS integration with FPGAs
26	Professor	Toshiyuki Ikoma	High-Throughput Screening of Collagen Type 1 alpha 1 Alternative Sources for Tissue Engineering Application using Machine Learning