

Main Research Topics of the Cooperative Project for Innovative Research 2018

Emergent System Research Division

1-1	Electronics-Inspired Interdisciplinary Research Institute Kowa Koida	Development of a high precision microelectrode for neuroscience
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Main Research Topics of the Cooperative Project for Innovative Research 2019

Emergent System Research Division

1-1	Department of Computer Science and Engineering Michio Okada	Research Project for Social Implementation of Weak-robots Concept
1-2	Department of Electrical and Electronic Information Engineering Hirofumi Takikawa	Advanced tool Coating Technological Laboratory, OSG-TUT Collaboration (ACTO), 2nd stage
1-3	Department of Architecture and Civil Engineering Taiki Saito	Development of technology to improve earthquake resistance of buildings using dynamic pulley damper mechanism
1-4	Department of Electrical and Electronic Information Engineering Kazuaki Sawada	Development of multimodal sensing technologies for visualization of physical / chemical information in micro-meter scale
1-5	Department of Computer Science and Engineering Michiteru Kitazaki	Estimation and control for human status by using physical care robot
1-6	Electronics-Inspired Interdisciplinary Research Institute Toshihiko Noda	Development of multimodal gas sensing technology for environment measurement
1-7	Department of Computer Science and Engineering Jun Miura	Next-generation Robotic Farming in Greenhouse Horticulture
1-8	Electronics-Inspired Interdisciplinary Research Institute/Department of Applied Chemistry and Life Science Saburo Tanaka	Development of Ultra-Sensitive Contaminant Detection System for Li-ion Battery Components
1-9	Research Center for Future Vehicle City Takashi Ohira	Wireless Power Transfer Serendipity That Enables Automatic Drone Charging Stations to Come True

Social System Research Division

2-1	Department of Architecture and Civil Engineering Kojiro Matsuo	Community-based Road and Traffic Management that Make Use of Big-Data: Toyohashi Model
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Main Research Topics of the Cooperative Project for Innovative Research 2020

Emergent System Research Division

1-1	Department of Mechanical Engineering Takayuki Shibata	Microfluidic-based Genetic Diagnostic and Improving Technologies for Enhancing Food Safety
1-2	Department of Electrical and Electronic Information Engineering Shinji Abe	Wireless power-transfer system for small vehicles
1-3	Department of Applied Chemistry and Life Science Yuu Hirose	Production of the Functional Foods from Algal Cells
1-4	Department of Mechanical Engineering Tomoaki Mashimo	Capsule Endoscope Robot Technology using Micro Ultrasonic Motor
1-5	Department of Electrical and Electronic Information Engineering Kazuhiro Takahashi	Development of biomarker inspection system using MEMS biosensor
1-6	Department of Electrical and Electronic Information Engineering Toru Harigai	Prediction of photovoltaic generation and weather sensing network
1-7	Research Center for Agrotechnology and Biotechnology Takahiro Yamauchi	Development of rooting in the direct planting of a cutting cultivation of the chrysanthemum and the root taking promotion technique

Social System Research Division

2-1	Institute for Global Network Innovation in Technology Education Hiroyuki Daimon	Enhancement of Compact Biogas Power Generation System to the Entire Country
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Advanced Research Division

3-1	Information and Media Center Hitoshi Goto	Development of automatic optimal control technology for market-linked AI vegetable factories
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