

# Main Research Topics of the Cooperative Project for Innovative Research 2016

## Emergent System Research Division

1-1	Department of Computer Science and Engineering <b>Michio Okada</b>	Research Project for Social Implementation of Relation-oriented Robots
1-2	Department of Computer Science and Engineering <b>Jun Miura</b>	TUT-ASMO Advanced Motion Technology Laboratory Project
1-3	Department of Environmental and Life Science <b>Saburo Tanaka</b>	Development of Next Generation Contaminant Detection Technology
1-4	Research Center for Future Vehicle City <b>Takashi Ohira</b>	High-Frequency Semiconductor Circuit Serendipity for Wireless Power Transfer
1-5	Department of Electrical and Electronic Information Engineering <b>Kazuhiro Takahashi</b>	Development of novel bio-sensors using Sensor / MEMS technology
1-6	Department of Electrical and Electronic Information Engineering <b>Hirofumi Takikawa</b>	Advanced tool Coating Technological laboratory, OSG-TUT collaboration (ACTO)
1-7	Department of Architecture and Civil Engineering <b>Kojiro Matsuo</b>	Road Marking 2.0 Project

## Social System Research Division

2-1	Information and Media Center <b>Hitoshi Isahara</b>	Research on Societal Implementation of Supporting Multilingual Information Outbound
2-2	Department of Mechanical Engineering <b>Naoki Uchiyama</b>	Development of an outdoor cleaning robot usable in a recycle center
2-3	Research Center for Collaborative Area Risk Management (CARM) <b>Taiki Saito</b>	Development and implementation of a disaster detection and disaster prevention information sharing system in order to support the Tokai region in the case of a massive earthquake
2-4	Institute for Global Network Innovation in Technology Education <b>Hiroyuki Daimon</b>	Research for Production and Utilization of Biomass
2-5	Research Center for Agrotechnology and Biotechnology <b>Toshihiko Eki</b>	New agriculture promotion plans for agriculture development in East Mikawa region

## Advanced Research Division

3-1	Department of Electrical and Electronic Information Engineering <b>Kazuaki Sawada</b>	Innovative Advanced Sensor Processing and Ion-Biology
3-2	Department of Computer Science and Engineering <b>Shigeki Nakauchi</b>	Mind & Brain Laboratory for Perceptual and Cognitive Processing
3-3	Department of Electrical and Electronic Information Engineering <b>Atsunori Matsuda</b>	Multiferroic Materials Laboratory for Advanced Applications

## Main Research Topics of the Cooperative Project for Innovative Research 2017

### Emergent System Research Division

1-1	Department of Mechanical Engineering Masahiro Fukumoto	Fabrication of Ultra High Performance SOFC Based on SPS Process
1-2	Department of Mechanical Engineering Takanori Miyoshi	Development and Operation of Human-Machine Collaborative / Autonomous Transportation System Realizing High Efficiency of Assembly Line
1-3	Department of Computer Science and Engineering Masaki Aono	System for 3D Shape Search of Whole/Part CAD Models
1-4	Department of Environmental and Life Sciences Rika Numano	On-chip iPS Cell Factory

## 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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