

Center for Nation-Wide Cooperative Research on ICT  
FY 2018 RIEC Annual Meeting on Cooperative Research Projects



# Compass for Next-Gen ICT

~Message from RIEC Nation-Wide Cooperative Research Projects~

東北大学 電気通信研究所-情報通信共同研究拠点-平成30年度 共同プロジェクト研究発表会

## 新世代ICTの羅針盤

~通研共同プロジェクトからのメッセージ~

DATE

**February 21 (Thu), 2019 10:00~19:00**

平成31年2月21日(木) 10:00~19:00

VENUE

**Research Institute of Electrical Communication, Tohoku University**

2-1-1 Katahira, Aoba-ku, Sendai 980-8577, Japan

東北大学 電気通信研究所 本館 仙台市青葉区片平2丁目1番1号

Free  
of Charge  
Registration required  
参加費無料  
事前申し込みが必要です

Opening  
Session

### RIEC and its Cooperative Research Projects

電気通信研究所における共同プロジェクト研究からのメッセージ

Session 2

### International Cooperative Research Projects

国際共同研究推進型プロジェクト成果報告

Session 3

### International Inter-Organizational Research Project

国際組織間連携プロジェクト成果報告

Session 4

### Inter-Organizational Research Projects

組織間連携プロジェクト成果報告

Session 5

### Advanced Research Projects

先端的研究推進型プロジェクト成果報告

Poster  
Session

### Nation-Wide Cooperative Research Projects

情報通信研究拠点プロジェクト成果報告



Organized by:  
Research Inst. Electrical Communication  
Tohoku University

主催: 東北大学電気通信研究所

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Registration: <http://www.riec.tohoku.ac.jp/ja/projects/project2018/>

お問合せ: 東北大学電気通信研究所研究協力係 〒980-8577 仙台市青葉区片平2-1-1  
TEL: 022-217-5422 FAX: 022-217-5426 <http://www.riec.tohoku.ac.jp/ja/>

# Program

Reception Desk Open

9:30~

## Opening Session

10:00~10:30



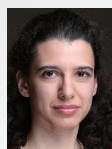
10:00~10:30

### RIEC and its Cooperative Research Projects

Satoshi Shioiri  
(Tohoku University, Japan)

## Session 2 : International Cooperative Research Projects

10:30~12:00



10:30~11:00

### CubeHarmonic: A Dialogue between Mathematics, Music, and Technology

Maria Mannone  
(Independent Researcher, Italy)



11:00~11:30

### Improving Science

Asaf Bachrach  
(Centre National de la Recherche Scientifique Paris, France)



11:30~12:00

### Terahertz Emitters with Dielectric-Embedded Plasmonic Gratings

Dmitry Ponomarev  
(Russian Academy of Sciences, Russia)

Lunch Break

12:00~

## Session 3 : International Inter-Organizational Research Project

13:30~14:00



13:30~14:00

### AI and Social Robots for Elderly

Li-Chen Fu  
(National Taiwan University, Taiwan)

Su-Ling Yeh  
(National Taiwan University, Taiwan)

Yoshifumi Kitamura  
(Tohoku University, Japan)

## Session 4 : Inter-Organizational Research Projects

14:00~15:00



14:00~14:20

### Sensitive and Functional Photodetectors Based on Silicon-on-Insulator

Hiroshi Inokawa  
(Shizuoka University, Japan)



14:20~14:40

### Research on Nanoelectronics and the Application to Neuronal Networks

Takashi Tanii  
(Waseda University, Japan)



14:40~15:00

### Data- & Human-Centric Design of Resilient Systems for Establishing Rich Aging Society

Tetsuo Sawaragi  
(Kyoto University, Japan)

## Session : 5 Advanced Research Projects

15:10~16:10



15:10~15:30

### A Hierarchical Edge Computing Solution for Image Recognition in IoT System

Nitis Monburinon  
(Thai-Nichi Institute of Technology, Thailand)



15:30~15:50

### Brain-Type Integrated System Using Thin-Film Devices

Mutsumi Kimura  
(Ryukoku University / NAIST, Japan)



15:50~16:10

### Atmospheric Water Vapor Profiling with a Wideband Digital Spectrometer

Noriyuki Kawaguchi  
(National Astronomical Observatory, Japan)

## Poster Session

16:20~17:50

## Reception (¥3,000)

18:00~19:00

### Venue

Main Building, Research Institute of Electrical Communication  
Tohoku University  
2-1-1 Katahira, Aoba-ku, Sendai 980-8577, JAPAN  
東北大学 電気通信研究所本館 仙台市青葉区片平2丁目1番1号

### Access

About 20min from West Gate of JR Sendai Station on foot  
JR「仙台駅」下車 西口から徒歩20分  
About 10min from North Exit No.2 of Subway Itsutsubashi Station on foot  
地下鉄南北線「五橋駅」下車 北2番出口から徒歩10分

### Regis- tration

<http://www.riec.tohoku.ac.jp/ja/projects/project2018/>

