

# Tohoku University Global COE Program

## The 5th International Symposium and 4th Student Organizing International Mini-Conference on Information Electronics Systems

February 22-24, 2012, The Westin Sendai 2F, Sendai, Japan

### Keynote Speakers



**Dr. Tingye Li**  
Emeritus, AT&T Bell Labs  
USA  
**Strategic Research and Innovation in Optical Communications: An Excited-State Lifetime of Forty Years at AT&T Bell Labs**



**Prof. Seigo Tarucha**  
University of Tokyo  
Japan  
**Spin Based Quantum Computation with Quantum Dots: Qubit, Qubit Gate and Scale-up**



**Dr. Gérard Assayag**  
Ircam, CNRS, UPMC  
France  
**Symbolic Interactions**

### Invited Speakers



**Prof. Weihua Zhuang**  
University of Waterloo  
Canada  
**Vehicular Communication Networks: Opportunities and Challenges**



**Prof. Jian Chen**  
Nanjing University  
China  
**Sensitive Superconducting Detectors at Terahertz and Optical Wavebands**



**Assoc.Prof. Chiou-Ting Hsu**  
National Tsing Hua University  
Taiwan  
**Constrained Nonnegative Matrix Factorization for Recognition Tasks from Facial Images**



**Prof. Georgi Stoyanov**  
Technical University of Sofia  
Bulgaria  
**High-accuracy Design and Implementation of Allpass-based Hilbert Transformers and Fractional Delay Filters**



**Dr. Alexander A. Shklyae**  
The Institute of Semiconductor Physics  
Russia  
**Nanostructured Semiconductor Layers Grown on Oxidized Si Surfaces**



**Dr. Adrian Stoica**  
Jet Propulsion Laboratory  
USA  
**What Future Robots Will Understand by Analyzing Human Movements and Biological Signals**

### GCOE Speakers

#### Group A

#### Information/ Device Fundamentals

Keiichi Edamatsu  
Hiroaki Muraoka  
Hideo Ohno  
Yasuo Cho  
Michio Niwano  
Tatsuo Uchida  
Rikizo Hatakeyama  
Migaku Takahashi  
Jun-ichi Kushibiki  
Junichi Murota

#### Group B

#### Networking

Fumiyuki Adachi  
Takahiro Hanyu  
Masayuki Kawamata  
Masataka Nakazawa  
Kunio Sawaya  
Nei Kato

#### Group C

#### Intelligent Information Systems

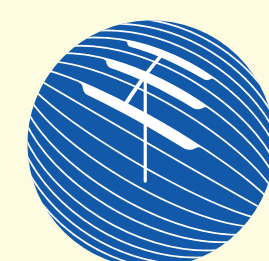
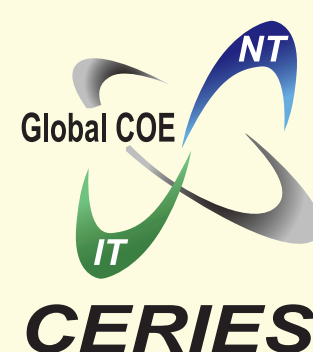
Michitaka Kameyama  
Yōiti Suzuki  
Naoki Kobayashi  
Takeshi Tokuyama  
Kazuyuki Tanaka  
Takafumi Aoki

### Poster Session

GCOE Members  
GCOE RAs

### Demonstration

GCOE Members



RIEC  
ECEI



# CERIES-GCOE/SOIM

Center of Education and Research for Information Electronics Systems