



**CERIES**

Tohoku University Electro-Related Departments  
Global COE Program

*Center of Education and Research for Information Electronics Systems*

# Global COE Workshop on Challenges of Next-Generation Wireless Communications

Date: **February 24th, 2012** (16:00 ~ 17:30)

Place: **Conference Room 103**, 1F, South Lecture Room Building,

Electrical, Information and Physics Engineering, Tohoku University

Sponsored by: Global COE Program

“Center of Education and Research for Information Electronics Systems”

## Technical Program

**16:00 ~ 16:40**

Lecturer: **Dr. Yang-Han Lee, Professor** (Tamkang University)

Title:

**LTE-A Carrier Aggregation (CA) System Design Consideration Toward IMT-Advanced 4G**

Abstract:

In this lecture, the system design considerations of CA for LTE-Advanced will be analyzed within this lecture. The spec. for IMT-Advanced (LTE-A) will be briefly introduced within this lecture. The system designing parameters within the LTE will be investigated. System performances are simulated when CA are in different frequencies band. From the simulation results, we observe how to design CA system for LTE-A 4G.

**16:40 ~ 17:30**

Lecturer: **Dr. Wei-Tsong Lee, Professor** (Tamkang University)

Title:

**An Interactive 3D Streaming Protocol for Wireless Network**

Abstract:

In this lecture, a novel 3D streaming protocol and system architecture are introduced. At first, this talk will introduce an easy 3D free viewpoint video captured system and the interactive and remote-controlled functions that the system provided. And then, transmission protocol is illustrated. It provides error concealment mechanism and QoS algorithms to enhance the video quality under wireless transmission. Some results and a short demo will be displayed at the end of this talk.

**17:30 ~ Adjourn**