



IEEE SSCS/CASS Atlanta Joint Chapter Invited Seminar

Title: 60GHz CMOS Transceiver for Ultra High Speed Wireless Communication

Speaker: Professor Kenichi Okada (Department of Physical Electronics)

Affiliation: Tokyo Institute of Technology, Meguro-Ku, Tokyo 152-8552 JAPAN

Abstract: In this presentation, the possibility of millimeter-wave wireless communication will be discussed. The 60-GHz ISM band has more than 8GHz bandwidth, and it is capable of at least 42Gb/s by using 64QAM. A 60-GHz transceiver implemented by 65nm CMOS is introduced with some practical design issues.

Speaker Biography: Kenichi Okada received the B.E., M.E. and Ph.D. degrees in Communications and Computer Engineering from Kyoto University, Kyoto, Japan, in 1998, 2000, and 2003, respectively. In 2003, he joined Tokyo Institute of Technology as an Assistant Professor, and he is now an Associate Professor. He has authored or co-authored more than 200 journal and conference papers. His current research interests include the millimeter-wave CMOS wireless transceiver and frequency synthesizers. He received the Ericsson Young Scientist Award in 2004, the A-SSCC Outstanding Design Award in 2006 and 2011, the ASP-DAC Special Feature Award in 2011, and more than 30 international and domestic awards. He is a technical program committee member of several conferences such as ISSCC and ESSCIRC.

Seminar Time: 1:30PM-3:00PM on December 12th 2013

Seminar Location: Klaus Advanced Computing Building, Rm1116 East, 266 Ferst Drive, NW, Atlanta, GA 30332

Organizer: Dr. Hua Wang, IEEE SSCS/CASS Atlanta Joint Chapter Chair, Assistant Professor, School of Electrical and Computer Engineering, Georgia Institute of Technology.

Email: hua.wang@ece.gatech.edu. Phone: (404) 385-6003

Light refreshments will be served at the seminar.