

The 2nd International Symposium on Information Electronics Systems

July 14-15, 2008 at Sendai Excel Hotel Tokyu, Sendai, Japan

Monday, July 14, 2008

9:00	Opening Session	Chair: Ryota Miyauchi
	Opening Remarks	Masataka Nakazawa (Organizing Committee Chair)
	Welcome Address	Fumiyuki Adachi (GCOE Director)
	President's Welcome Greeting	Akihisa Inoue (President, Tohoku University)

Session 1 : Nano Technologies 1 : Material Evaluation & Characterization

Chair: Hiroyuki Odagawa

9:15	1-1 (Invited) The Secret Life of Ferroelectric Domain Walls	Venkatraman Gopalan (Pennsylvania State University)
10:00	1-2 Study on Si(111)7 × 7 Surface Using Non-contact Scanning Nonlinear Dielectric Microscopy	Yasuo Cho
10:15	1-3 Homogeneous TiO₂-SiO₂ Ultra-low-expansion Glass for the Extreme Ultra-violet Lithography System	Jun-ichi Kushibiki

10:30 – 11:00 Break

Session 2 : Photonic Devices & Materials

Chair: Yasuyoshi Mitsumori

11:00	2-1 (Invited) Recent Progress in Advanced Photonic Crystal Fiber Devices –in a DTU Fotonik Perspective	Withdraw Anders Bjarklev (Technical University of Denmark)
11:45	2-2 Development of Entangled Photon Sources	Keiichi Edamatsu
12:00	2-3 Establishment of High Accuracy Measurement Method of LC Parameters and Surface Alignment Control	Tatsuo Uchida

12:15 – 13:30 Lunch

Session 3 : Optical Communication & Networks

Chair: Toshihiko Hirooka

13:30	3-1 (Invited) Femtosecond Technology for Optical Arbitrary Waveform Generation	Erich P. Ippen (Massachusetts Institute of Technology)
14:15	3-2 New Frontiers in Optical Communication: Ultrahigh-speed Transmission and Coherent Transmission	Masataka Nakazawa
14:30	3-3 Design of High-Performance Optical Switches	Susumu Horiguchi

14:45 – 15:15 Break

Session 4 : Wireless Communication & Networks

Chair: Eisuke Kudoh

15:15	4-1 (Invited) Enhancing the Social Web through Augmented Social Cognition Research	Ed Chi (PARC)
16:00	4-2 Broadband Wireless Distributed Signal Processing and Network Technology	Fumiyuki Adachi
16:15	4-3 Efficient Method of Moments for Large-scale Periodic Array Antennas	Kunio Sawaya
16:30	4-4 A New Data Gathering Scheme Based on Set Covering Technique for Mobile Sinks in WSNs	Nei Kato

16:45 – 18:00 Poster Session

Ball B

18:00 – 20:00 Banquet

Ball A