

The 4th International Symposium on Information Electronics Systems

Program at a Glance

July 7 – 8, 2010 at Sendai Excel Hotel Tokyu, Sendai, Japan

Wednesday, July 7 Ball A

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|-------------|------------------|--|--|
| 9:00–9:20 | | Opening Session | Chair: Naofumi Homma |
| | | Opening Remarks | Nei Kato (Organizing Committee Chair) |
| | | Welcome Address | Fumiyuki Adachi (GCOE Director) |
| 9:20–10:40 | Session 1 | Intelligent Signal Processing | Chair: Naofumi Homma |
| 9:20–10:10 | 1–1(Invited) | The Use of Sinusoidal Illumination for Optical Super-Resolution and Depth Estimation | Panos Papamichalis, USA (Southern Methodist University) |
| 10:10–10:40 | 1–2 | High-Accuracy Machine Vision Technology Using Sub-Pixel Image Matching – From 3D Vision to Medical Image Analysis – | Takafumi Aoki |
| 10:40–11:10 | | Break | |
| 11:10–12:30 | Session 2 | Acoustic Technologies and Systems | Chair: Yukio Iwaya |
| 11:10–12:00 | 2–1(Invited) | An Objective Quality Assessment Model of Multi-Channel Audio Coding Systems | Koeng-Mo Sung, Korea (Seoul National University) |
| 12:00–12:30 | 2–2 | Development of Acoustic Systems Realizing Communications with High Sense-of-Presence | Yo-iti Suzuki |
| 12:30–13:30 | | Lunch | |
| 13:30–15:20 | Session 3 | Nano Technologies and Devices | Chair: Toshiro Kaneko |
| 13:30–14:20 | 3–1(Invited) | Strategy of Carrier Control of Carbon Nanotube Transistor | Young Hee Lee, Korea (Sungkyunkwan University) |
| 14:20–14:50 | 3–2 | Green-Nanoelectronics Oriented Nanoscopic Plasma Control | Rikizo Hatakeyama |
| 14:50–15:20 | 3–3 | Anodic Titanium Oxide Nanotube Film: Formation and Application to Dye-Sensitized Solar Cells | Michio Niwano |
| 15:20–15:50 | | Break | |
| 15:50–16:50 | Session 4 | Measurement and Inference Strategies | Chair: Yuji Ohashi |
| 15:50–16:20 | 4–1 | Development of Super-Precise Ultrasonic Method and System for Measuring Zero-CTE Temperature of TiO ₂ -SiO ₂ Ultra-Low-Expansion Glasses | Jun-ichi Kushibiki |
| 16:20–16:50 | 4–2 | Statistical Inference and Learning Theory in Image Processing | Kazuyuki Tanaka |
| 16:50–18:10 | | Poster Session | Ball B |
| 18:10–20:10 | | Banquet | Ball A |

Thursday, July 8 Ball A

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| 9:00–10:20 | Session 5 | Photonic Devices and Quantum Information | Chair: Hideo Kosaka |
| 9:00–9:50 | 5–1(Invited) | Managing Multipartite Entanglement Using Photons | Nobuyuki Imoto, Japan (Osaka University) |
| 9:50–10:20 | 5–2 | Advanced Entangled Photon Sources | Keiichi Edamatsu |
| 10:20–10:50 | | Break | |
| 10:50–11:50 | Session 6 | Wireless/Optical Communications and Networks | Chair: Toshihiko Hirooka |
| 10:50–11:20 | 6–1 | Broadband Distributed Antenna Network and Its Related Wireless Techniques | Fumiyuki Adachi |
| 11:20–11:50 | 6–2 | Challenges to Ultra-Multi Level QAM Coherent Optical Transmission | Masataka Nakazawa |
| 11:50–13:00 | | Lunch | |
| 13:00–14:20 | Session 7 | Next Generation Communication Networks | Chair: Hiroki Nishiyama |
| 13:00–13:50 | 7–1(Invited) | Protocol Design and Optimization for Next Generation Ubiquitous Networks | Lin Cai, Canada (University of Victoria) |
| 13:50–14:20 | 7–2 | Reliable Application Layer Multicast over Heterogeneous Networks | Nei Kato |
| 14:20–14:50 | | Break | |
| 14:50–17:00 | Session 8 | Advanced Storage and Circuit Technologies | Chair: Simon J. Greaves |
| 14:50–15:40 | 8–1(Invited) | The Quest for Tbits/in ² : Understanding and Manipulating Nanoscale Magnetism | Tom Thomson, UK (University of Manchester) |
| 15:40–16:10 | 8–2 | Future Foresight and Today's Struggle in High Density Information Storage | Hiroaki Muraoka |
| 16:10–17:00 | 8–3(Invited) | Power Management for VLSIs – a Power Electronics Perspective | Wai Tung Ng, Canada (University of Toronto) |
| 17:00–17:10 | | Closing Session | Ball A |
| | | Closing Remarks | Nei Kato (Organizing Committee Chair) |