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Technical Program

Wednesday, September 16

2:00 PM – 6:00 PM

Room: 701+702: Workshop on Wireless Power Transfer for Various Applications

Room: 703: Special Tutorial IoT related regulations and standards

Conference Reception

Washington Hotel Ariake, 3F Room Iris, 18:00~

Thursday, September 17

S3: Localization and its applications

Room: 601, 8:30 AM – 9:45 AM

Chair: Gregory Durgin (Georgia Tech, USA)

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Markus Cremer (London South Bank University, United Kingdom); Uwe Dettmar, Rainer Kronberger, Robin Lerche, Carsten Hudasch and Thomas Knie (Cologne University of Applied Sciences, Germany); Anjum (Jim) Pervez (London South Bank University, United Kingdom)

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Room: 701+702, 8:30 AM – 9:45 AM

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Chair: Hsin-Chin Liu (National Taiwan University of Science and Technology, Taiwan)

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Room: 703, 10:15 AM – 11:30 AM

Chair: Daniel Dobkin (Enigmatics, USA)

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P1: Conference Plenary

Room: 607+608, 1:00 PM – 4:00 PM

- **General Chair Welcome**
- **TPC report**
- **Best paper announcement**
- **Keynote Speech**



Smart Supply Chain and
Logistics in Rakuten
Keita Shimanuki,
Rakuten



Product Content for
Omni-channel Retail in
Walmart
Ram Rampalli, Walmart

- **Special Round Table on “How we leverage ICT in next generation SCM and Retail”**



Jun Murai
Keio University



Keita Shimanuki
Rakuten



Ram Rampalli
Walmart



Masashi Shimizu
UPR Corporation



Hitoshi Nishino
IBM Japan

P2: Poster and Demo

Room: 701+702, 4:00 PM – 5:30 PM

Long range and low powered RFID tags with tunnel diode....N/A

Francesco Amato (Georgia Institute of Technology, USA); Christopher Peterson (Georgia Institute of Technology, USA); Muhammad Bashir Akbar (Georgia Institute of Technology, USA); Gregory Durgin (Georgia Tech, USA)

Near-Field Tag-Antenna-Based Presence Sensing with Object-Identification....N/A

Wataru Hattori (NEC Corporation, Japan); Kiyohiko Takahashi (NEC Corp., Japan); Ryo Kawai (NEC Corporation, Japan); Yusuke Takahashi (NEC Asia Pacific Pte Ltd., Singapore); Shinichi Mikami and Daichi Shimohata (NEC Engineering, Ltd., Japan)

A High-Capacity Protocol for Physical Distribution using 920-MHz band....N/A

Nobuaki Mochizuki (NTT Corporation, Japan)

A Performance evaluation of subcarrier allocation methods in multi-subcarrier multiple access....N/A

Nitish Rajoria (Keio University, Japan); Yuki Igarashi and Jin Mitsugi (Keio University, Japan); Yuusuke Kawakita and Haruhisa Ichikawa (The University of Electro-Communications, Japan)

Compact Linux Platform using Soft Processor for Software Defined Radio....N/A

Takeshi Matsuya, Jin Mitsugi and Jun Murai (Keio University, Japan)

Cost-Effective ETC System using RFID Tag....N/A

Yuriko Hattori (Tsukuba University of Technology, Japan)

Indoor Positioning Scheme Using Sensing Components for Improving the Operating Performance....N/A

Yih-Shyh Chiou (Chinese Culture University, Taiwan); Sheng-Cheng Yeh (Ming Chuan University, Taiwan)

(invited from aural session) A performance analysis of interference rejection technique in multi-subcarrier multiple access....N/A

Yuki Igarashi (Keio University, Japan); Nitish Rajoria (Keio University, Japan); Yuusuke Kawakita (The University of Electro-Communications, Japan); Jin Mitsugi (Keio University, Japan); Haruhisa Ichikawa (The University of Electro-Communications, Japan)

(invited from aural session) Multiple Access Channel Allocation Improvement for Sensor Nodes Setting Based on RFID Communication....N/A

Matsuda Tomoaki, Wakisaka Yuuki and Yuusuke Kawakita (The University of Electro-Communications, Japan); Jin Mitsugi (Keio University, Japan); Haruhisa Ichikawa (The University of Electro-Communications, Japan)

(invited from aural session) Multi-code Filtering & Collection: Proposal and Performance Evaluation....N/A

Iori Mizutani and Jin Mitsugi (Keio University, Japan); Masaki Ehara (Tokyo University of Technology, Japan)

(invited from aural session) Measuring User-Object Interactions in IoT Spaces....N/A

Raúl Parada (Universitat Pompeu Fabra, Spain); Joan Melià-Seguí (Universitat Oberta de Catalunya, Spain); Anna Carreras, Marc Morenza-Cinos and Rafael Pous (Universitat Pompeu Fabra, Spain)

(Late submission) Unobtrusive and Wireless Physiological Balance Sensing....N/A

Keishi Ohashi, Shigeki Kuroiwa, Sho Hideshima, Takuya Nakanishi, Akane Matsuzaka and Tetsuya Osaka (Waseda University, Japan)

(Late submission) Enhancing communication through a two-dimensional waveguide....N/A

Yoshiaki Hirano and Hiroko Kosaka (Teijin LTD, Japan)

Conference Dinner

Washington Hotel Ariake, 3F Room Iris, 7:00 PM – 9:00 PM

Special Entertainment: Japanese Traditional Musical Instrument : Tsugaru-Shamisen



Mr. Yusuke Okumura

Mr. Okumura has been learning Tsugaru-Shamisen for 22 years. He has been awarded various prizes at Tsugaru-shamisen national competitions - winning 1st place in junior section, and 2nd place in senior section twice

Friday, September 18

S6: Networking and Communications Protocols 3

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Chair: Azhar Hasan (National University of Sciences & Technology, Islamabad, Pakistan)

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