

Commission B, Fields and Waves

Activity report

November 2010–February 2011

1 The 39th Japanese EMT Symposium 2010

1.1 Statistics

Date: 11–13 November, 2010

Venue: Hotel Listel-Inawashiro, Fukushima, Japan

Web page: <http://www.ieice.or.jp/es/emt/jpn/EMT10/emt-11-emt-sympo.pdf>

Number of oral presentations: 65

The Technical Committee on Electromagnetic Theory (EMT) is jointly established in the Institute of Electronics, Information and Communication Engineers (IEICE), and in the Institute of Electrical Engineers of Japan (IEEJ), in order to maintain the qualified position of Japan in the field of the electromagnetic theory, by promoting the collaboration with foreigners and by bringing up the young Japanese colleagues who would contribute to the global activation of the electromagnetic society.

The technical committee regularly holds the annual Electromagnetics Theory Symposium for the past 39 years. The scope of the symposium includes;

- Fundamental theory of electromagnetics (including relativistic theory, quantum electrodynamics, etc.)
- Analysis theory of electromagnetic fields
- Numerical solutions and modeling of electromagnetic fields
- Simulation techniques of electromagnetic fields
- Scattering and diffraction of electromagnetic waves
- Interaction of electromagnetic fields with media (including laser, plasma, random media, etc.)
- Nonlinear problems
- Inverse problem, inverse scattering
- Electromagnetic environment
- Electromagnetic effect on biological systems
- Other related fields.

2 ISAP2010

International Symposium on Antennas and Propagation

ISAP 2010 is the premier forum for presentation of the current status and future trends in the field of antenna and propagation. The conference is jointly organized by the University of Macau and the State Key Laboratory of Millimeter Waves at City University of Hong Kong, co-organized by Bureau of Telecommunications Regulation (DSRT), and technically cosponsored by the IEICE Communication Society, IEEE AP-S and IEEE AP/MTT Chapter (Hong Kong).

2.1 Statistics

Date: 23–26 November, 2010

Venue: The Venetian Macao-Resort-Hotel, Macao, China

Web page: <http://www.isap2010.org/>

Number of oral presentations: 230

Oral contributions from Japan: 92

2.2 Technical sessions

- Rohde & Schwarz Special Session
- Wideband Antennas
- EMC/EMI Simulation & Measurements
- Antennas with Metmaterials
- Computational Electromagnetics
- Mobile and Indoor Propagations
- Small Antennas
- Millimeter Wave and Sub-Millimeter Wave Antennas
- Antennas Measurements
- Remote Sensing
- High-Frequency Techniques and Time Domain Techniques
- MIMO Radio Channels & Mobile Radio Communication Systems
- Adaptive and Smart Antennas
- Dual Band Antennas
- Remote Sensing and Other Propagations
- Satellite Communication Systems and Other Systems
- Multi-Band Antennas
- Other Electromagnetic Wave Theories
- Antenna Array
- Other Propagations
- Mobile and Indoor Propagations and Millimeter and Optical Wave Propagations
- EMC/EMI Simulations & Measurements and MIMO Radio Channels & Mobile Radio Communication Systems
- Adaptive and Smart Antennas and Other Antennas
- Other Systems
- Planar Antennas
- RF/Microwave Filters
- UWB Antennas
- Millimeter Wave and Sub-Millimeter Wave Antennas and Other Antennas
- Biological Effects and Medical Applications and Other Systems
- Small Antennas and Other Antennas

- Reconfigurable and Multiband Antennas
- RF/Microwave Components
- Other Antennas

3 Future Conferences

3.1 PIERS2011, Morocco

The 29th PIERS 2011 in Marrakesh, Morocco

Date: 20–23 March, 2011

Venue: Mansour Eddahbi Hotel & Conference Center, Marrakesh, Morocco

Web page: <http://piers.mit.edu/piers2011Marrakesh/>

3.2 EuCAP2011

The 5th European Conference on Antennas and Propagation

Date: 11–15 April, 2011

Venue: EUR Congressi in Rome, Italy

Web page: <http://www.eucap2011.org/>

3.3 APS/URSI2011

The 2011 IEEE International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting

Date: 2–6 July, 2011

Venue: The Spokane Convention Center, Spokane, Washington, U.S.A.

Web page: <http://www.apsursi2011.org/>

3.4 PIERS2011, Suzhou

The 29th PIERS 2011 in Suzhou, China

Date: 12–16 September, 2011

Venue: Grand Metropark Hotel Suzhou, Jiangsu, China

Web page: <http://www.piers.org/piers2011Suzhou/>

3.5 ISAP2011

International Symposium on Antennas and Propagation

Date: 25–28 October, 2011

Venue: Lotte Hotel Jeju, Jeju, Korea

Web page: <http://www.isap2011.org>