

——第2種研究会開催案内——

**5<sup>th</sup> Pan-Pacific EMC Joint Meeting –PPEMC’12–**  
**(第5回環太平洋地域環境電磁工学合同会議)**

委員長 桑原 伸夫 (九州工業大学)

11月29日～30日の2日間、情報通信研究機構におきまして「5<sup>th</sup> Pan-Pacific EMC Joint Meeting –PPEMC’12 – (第5回環太平洋地域環境電磁工学合同会議)」を開催いたします。本会議では一般講演、若手講演のほか、環太平洋地域のEMC研究者を招聘し、招待講演会を開催いたします。多くの皆様に奮ってご参加いただけますよう、よろしく願いいたします。

※引き続き、参加登録を受け付けています。emcj-ppemc12@mail.ieice.org にメールでご連絡下さい。

**日時** 2012年11月29日(木)～30日(金)

**会場** 情報通信研究機構 (東京都小金井市貫井北町4-2-1)

JR武蔵小金井駅からバス利用の場合：

北口改札を出て、5番乗場より京王バス「小平団地」行きバスに乗りし、情報通信研究機構前下車

JR国分寺駅からバス利用の場合：

北口 (立川バス) 改札を出て北口に進み、階段を降りてバス乗り場より立川バス「昭和病院」方面行きバスに乗りし、情報通信研究機構前下車

南口 (京王バス) 改札を出て南口に進み、階段を降りて左へ進み、1番のバス乗り場より京王バス「小平団地」行きバスに乗りし、情報通信研究機構前下車

<http://www.nict.go.jp/about/hq.html>

**【プログラム】**

○ 11月29日(木) 9:00～18:20

〔若手講演1〕 (9:10 - 10:25)

(1) Electric field measurements for MIMO wireless communication transmitters in electromagnetic exposure evaluation

Dinh Thanh Le (NICT), Takahiro Iyama (NTT DOCOMO), Lira Hamada, Soichi Watanabe (NICT), Teruo Onishi (NTT DOCOMO)

(2) Exposure assessment near a radiation source using a small electro-optic converter

Satoshi Ishihara, Teruo Onishi (NTT DOCOMO)

(3) Computational techniques for determining in-vivo threshold electric field and current for magnetophosphenes

Ilkka Laakso, Akimasa Hirata (Nagoya Inst. Tech.)

(4) Quasi-static computational electromagnetic analysis for dosimetry in grounded and ungrounded body due to contact current

Kwok Hung Chan, Junya Hattori, Ilkka Laakso, Akimasa Hirata (Nagoya Insist. of Tech.)

- (5) Evaluation of polarization characteristics of millimeter-wave in vitro exposure apparatus based on disc-shaped post-wall waveguide

Takeo Shiina, Yukihiisa Suzuki (Tokyo Metropolitan Univ.), Kanako Wake (NICT), Masao Taki (Tokyo Metropolitan Univ.)

[若手講演 2] (10:40 - 11:55)

- (6) Local SAR evaluation of anatomical human head model implanted with metal plates exposed to UHF radio waves

Yoshifumi Kawamura, Takashi Hikage, Toshio Nojima (Hokkaido Univ.), Tomoaki Nagaoka, Soichi Watanabe (NICT)

- (7) Wireless energy transmission for subcutaneous implantable medical devices by using capacitive coupling - Analysis of receiving power and biological effect of electromagnetic field -

Atsushi Taneda, Kenji Shiba (Tokyo Univ. of Science)

- (8) Variability of SAR in human models due to wireless power transmission with magnetic resonance

Shogo Tsuchida, Fumihiro Ito, Ilkka Laakso, Akimasa Hirata (Nagoya Inst. of Tech.)

- (9) Antenna characterization for near-field wireless power transfer using S-parameter

Mingda Wu, Qiang Chen (Tohoku Univ.), Qiaowei Yuan (Sendai National College of Tech.), Kunio Sawaya (Tohoku Univ.)

- (10) Variable capacitance loaded reconfigurable antenna with frequency and beam switching

Hiroto Abe, Qiang Chen, Kunio Sawaya (Tohoku Univ.)

[若手講演 3] (13:30 - 14:45)

- (11) A Study on interference characteristics of an IEEE 802.11g wireless LAN system by a Zigbee system using 2.4 GHz band

Yuichiro Okugawa, Atsushi Nagao, Yoshiharu Akiyama (NTT E&E Labs.)

- (12) Fundamental study on an estimation of connector contact conditions using HF signals

Kazuya Uehara, Yu-ichi Hayashi, Takaaki Mizuki, Hideaki Sone (Tohoku Univ.)

- (13) Analysis of center frequency of noise suppression for ferromagnetic thin-film noise suppressor

Sho Muroga, Yuki Asazuma, Masahiro Yamaguchi (Tohoku Univ.)

- (14) Dependence on number of signals for radiating electric field strength from LAN cable

Yosuke Ogi, Nobuo Kuwabara (Kyusyu Inst. of Tech.)

- (15) Influence to measurement level by difference of measurement circuit

Yoshihiko Abe, Nobuo Kuwabara (Kyushu Inst. of Tech.), Hidenori Muramatsu (VCCI), Toshiki Shimasaki (NEC Engineering, Ltd.)

[若手講演 4] (15:00 - 16:20)

- (16) Characterization of differential line across a ground slit

Yusuke Konishi (UEC), Kimitoshi Murano (Tokai Univ.), Yoshio Kami, Fengchao Xiao (UEC)

- (17) Lossy resonators for suppressing power-bus resonance of printed circuit board

Farhan Zaheed Mahmood, Yoshitaka Toyota, Kengo Iokibe (Okayama Univ.)

- (18) Practical model of an on-board type common mode choke coil for 3D EMC simulation

Fujiyuki Nakamoto, Yuichi Sasaki, Yosuke Watanabe, Chiharu Miyazaki, Naoto Oka (Mitsubishi

Electric)

(19) Identification of a noise source in a wireless terminal using the APD method

Kenta Tsukamoto, Manabu Kusumoto, Eiji Hankui (NEC Corp.)

(20) [一般] An arbitrary dipole source localization algorithm using two antennas and reciprocity theorem

Atsuhiko Nishikata (Tokyo Inst. of Tech.)

[招待講演 1] (16:30 - 17:20)

(21) Signal integrity design of TeraByte/s TSV and interposer for future 3D IC

Joungho Kim (Korea Advanced Inst. of Sci. and Tech., Korea)

[見学会] (17:20 - 18:20)

○11月30日(金) 9:30~16:50

[招待講演 2] (9:30 - 12:00)

(22) HPEM impacts on smart grid electronics

William A. Radasky (Metatech Corporation, USA)

(23) EMC on smart grid

Masamitsu Tokuda (The University of Tokyo, Japan)

(24) Development of near-field emission limit for radiated emission pre-compliance check

Kye Yak See (Nanyang Technological Univ., Singapore)

[一般講演 1] (13:30 - 15:10)

(25) E-field probe calibration in a G-TEM cell

Takehiro Morioka (AIST)

(26) Transient voltage measurement on a PC board exposed by a small gap spark discharge

Satoshi Isofuku (TET), Masamitsu Honda (IPL)

(27) Geometrical configuration effect in reducing FM-band cross-talks between two parallel signal traces including return grounds on printed circuit boards for vehicles

Michihira Iida (DENSO/Nagoya Inst. of Tech.), Tsuyoshi Maeno (Qualtec), Jianqing Wang, Osamu Fujiwara (Nagoya Inst. of Tech.)

(28) Noise propagation model for radio receiver in AM-band using capacitance between vehicle and ground

Takanori Uno, Kazuma Kawai, Hiroshi Taki, Takahiro Tsuda (DENSO)

(29) Identifying imbalance component and EM radiation from asymmetrical differential-paired lines with different U-shape bend equi-distance routing

Yoshiki Kayano, Hiroshi Inoue (Akita Univ.)

[一般講演 2] (15:25 - 16:45)

(30) A measuring method for 3-D EMF distribution using the Wiimote

Ken Sato, Yoshinori Kashimura, Yoshitsugu Kamimura (Utsunomiya Univ.)

(31) A study on change in conductance and susceptance components of kidney disease patients' blood for real-time quality monitoring of hemodialysis

Akira Takeda (Chubu Univ.), Kazuyuki Takata (Toyota National Colleges of Tech.), Hiroto Nagao

(Iwakura Hospital), Jianqing Wang, Osamu Fujiwara (Nagoya Inst. of Tech.)

(32) Experimental studies of separation between telecom signal and noise of common mode noise

Kazuo Murakawa, Yasunori Ogura, Kei Tominaga, Yuichiro Okugawa, Hideki Itou (NTT EAST)

(33) Study for the operational guideline of wireless applications' use in telecommunication equipment rooms

Kimihiro Tajima (NTT), Hidenori Itou, Norihito Hirasawa (NTT East), Yuichiro Okugawa, Yoshiharu Akiyama (NTT), Kazuo Murakawa (NTT East)

**【参加費】** 一般7,000円, 学生2,000円  
(講演論文集代を含む)

**【参加申込・問合先】**

石上 忍 (情報通信研究機構)、王 建青 (名古屋工業大学)

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◎29日の全講演終了後、懇親会(会費4,000円)を開催いたしますのでご参加下さい。

◎最新の情報につきましては、下記URLで詳細をご確認下さい。

[http://www.ieice.org/cs/emcj/jpn/international/pan-pacific/index\\_jpn.html](http://www.ieice.org/cs/emcj/jpn/international/pan-pacific/index_jpn.html)

主催 環境電磁工学研究専門委員会

協賛 電気学会 電磁環境技術委員会, IEEE EMC Society Japan/Sendai Chapters