

★環境電磁工学研究会（EMCJ）

専門委員長 曽根秀昭 副委員長 和田修己

幹事 森岡健浩・大坂英樹 幹事補佐 萱野良樹・勝部勇作・佐々木智江

日時 6月2日（木）9：30～16：55

3日（金）9：30～15：20

会場 BL-201, Department of Electrical Engineering, National Taiwan University (NTU) (<http://www.ee.ntu.edu.tw/en/> Tzong-Lin Wu)

議題 EMC Joint Workshop, 2016, Taipei

2日午前 一般講演 セッション1

EMCJ-1. Compact Spiral Patch EBG Structure with a Shunt Capacitor for Broadband SSN Suppression
○Chi-Kai Shen • Tzong-Lin Wu (NTU)

EMCJ-2. A TSV-Based Common-Mode Suppressing Filter in 3-D ICs
○Chi-Hsuan Cheng • Tzong-Lin Wu (NTU)

3. Shielding Effectiveness of Meltblown Non-Woven Fabric Type Non-Magnetic Noise Suppressor

Sho Muroga (National Inst. of Tech., Toyota College) • Jiang Fu • Masahiro Yamaguchi (Tohoku Univ.) • Tomoya Tanaka • Chie Okamura • Lumina Obi • Kazufumi Kato (Asahi Kasei)

一般講演 セッション2

EMCJ-4. Study on Conductive-Strip Grid-Pattern Characteristics and their Application as Absorber Material
○Kohei Tsuyoshi • Shinichiro Yamamoto • Kenichi Hatakeyama (Univ. of Hyogo) • Takanori Tsutaoka (Hiroshima Univ.)

EMCJ-5. An absorptive balanced bandpass filter based on slot couple lines
○Siou Huei Yang • Yang Chih Huang • Ting Yi Lin (NTU)

EMCJ-6. Elimination of Radiation on Cable-Attached High-Speed Interfaces
○Ying-Cheng Tseng • Po-Jui Li • Tzong-Lin Wu (NTU)

2日午後 ポスターセッション（13：30～）

EMCJ-7. [ポスター講演] Study on Side-Channel Analysis Based on Asynchronous Measurement
○Airi Sugimoto (Tohoku Univ.) • Yu-ichi Hayashi (Tohoku Gakuin Univ.) • Takaaki Mizuki • Hideaki Sone (Tohoku Univ.)

EMCJ-8. [ポスター講演] Investigation of Relationship between Signal-to-Noise Ratio of EM Information Leakage and Side-Channel Attacking Cost
○Yusuke Yano • Kengo Iokibe • Yoshitaka Toyota (Okayama Univ.)

EMCJ-9. [ポスター講演] An on-chip dual-mode rat-race coupler for closely-spaced two-element antenna arrays
○Huy Nam Chu • Wei-Shan Chung • Tzyh-Ghuang Ma (Taiwan Tech)

EMCJ-10. [ポスター講演] 共振のQに基づくオンボードRLスナバの最適値決定法の評価
○河田直樹・矢野佑典・五百旗頭健吾・豊田啓孝（岡山大）

EMCJ-11. [ポスター講演] Characterization and Modeling of CMOS On-Chip Symmetric Coupled Transmission Lines
○Chien-Chang Huang • Wei-Che Lin (Yuan Ze Univ.)

EMCJ-12. [ポスター講演] A Broadband Filter Design for Common-Mode Noise Rejection with Multilayer Mushroom Structure in Differential Transmission Line
Ding-Bing Lin • ○Yi-Chien Chen (NTUT)

EMCJ-13. [ポスター講演] Design and Application of Radio Frequency Current Probe for IC-EMI Measurement
Jeff Cheng • ○Yen-Tang Chang (BSMI) • Han-Nien Lin (Feng-Chia Univ.)

EMCJ-14. [ポスター講演] Near-field to Far-field Transformation using Non-contacting Near-field Measurement with Kirchhoff Surface Integral Representation in the Frequency Domain
○Sung-Mao Wu • Li-Wen Lai • Jia-Yu Liu • Bang-Cheng Chiu • Mong-Hua Tu (NUK) • Cheng-Chang Chen • Ming-Shan Lin (BSMI)

15. [ポスター講演] A study on the relation between surface roughness of spherical electrode and amplitude of electromagnetic radiation due to ESD
Kenichiro Abe • Ken Kawamata • Shigeki Minegishi (Tohoku Gakuin Univ.) • Osamu Fujiwara (Nagoya Inst. of Tech.)

16. [ポスター講演] Measurement of current distribution on vertical coupling plane in the ESD immunity test
Ryuta Koike • Ken Kawamata • Shinobu Ishigami • Shigeki Minegishi (Tohoku Gakuin Univ.)

一般講演 セッション3

EMCJ-17. Identifying Dominant Factor of EMI of Asymmetrical Differentia-Paired Lines with Different Termination Condition
○Yoshiki Kayano (UEC) • Hiroshi Inoue (The Open Univ.)

EMCJ-18. Calculating EMS and EMI for Volumes of Microstrip Lines by Analytical Formula

○Chun-Te Wu (DYU Univ.) • Cheng-Nan Chiu (Yuan Ze Univ.) • Han-Chang Hsieh (BSMI)

EMCJ-19. Efficiency Enhancement of Near Field Coupled Antenna Pair Using Reflectors for Wireless Power Transmission Ding-Bing Lin • ○Pei-Chuan Huang (National Taipei Univ. of Tech.)

招待講演

EMCJ-20. [招待講演] Modeling and Measuring Vertical Interconnects with Impedance Control Over a Wide Frequency Range Tzyy-Sheng Horng (National Sun Yat-sen Univ.)

3日午前 一般講演 セッション4

1. An experimental investigation on conducted emission characteristics of SiC MOSFET in a DC-DC boost converter Takaaki Ibuchi • Tsuyoshi Funaki (Osaka Univ.)

EMCJ-2. Research of Antenna with Finite Sized Artificial Magnetic Structure in Wireless Device

○Chung-Yuan Liu • Chi-Kai Shen • Shih-Yuan Chen • Tzong-Lin Wu (NTU) • Jinjia Chang • Bin-Chyi Tseng • Jackson Yen (ASUSTeK)

EMCJ-3. Metal Meshed Antenna on the Novel Ultra-Slim Flexible Glass Substrate

Chia-Ying Tseng • ○Yi-Jiun Chen (National Taiwan Univ.) • Kai-Jiun Wang (ITRI) • Jen-Chieh Lin • Sean Garner • Scott Pollard • Kuan-Ting Kuo (Corning) • Kao-Der Chang • Hung-Yi Lin • Yu-Ming Wang (ITRI) • Hoang Yan Lin (National Taiwan Univ.)

一般講演 セッション5

EMCJ-4. A study on system characterization of an optical E-field probe

○Takehiro Morioka • Satoru Kurokawa (AIST) • Jun Ichijo • Yoshikazu Toba (SEIKOH GIKEN)

EMCJ-5. Experimental Calibration of Radiation Pattern Distortion from Phased Array Antennas due to Implementation Errors Hsi-Tseng Chou (National Taiwan Univ.) • ○Dun-Yuan Cheng (Yuan Ze Univ.)

EMCJ-6. Design Considerations of Multi-Column and Multi-Band LTE Base Station Antennas to Reduce the High-Order Harmonic Signals

○Sheng-Ju Chou (Yuan Ze Univ.) • Hsi-Tseng Chou (National Taiwan Univ.) • Li-Ruei Kuo (Whayu Industry)

3日午後 招待講演 (13:20~)

EMCJ-7. [招待講演] EM Information Security of Tablet PCs in Public Space

Yu-ichi Hayashi (Tohoku Gakuin Univ.)

一般講演 セッション6

EMCJ-8. A Prediction Method of The Substrate Noise and The SI Issues in 3-D ICs Based on Modified 3-D TLM Method ○Yi-An Hsu • Chi-Hsuan Cheng • Tzong-Lin Wu (NTU)

EMCJ-9. Study on Fault Sensitivity Analysis of Cryptographic Device under IEMI

○Itoh Takuya (Tohoku Univ.) • Yu-ichi Hayashi (Tohoku Gakuin Univ.) • Takaaki Mizuki • Hideaki Sone (Tohoku Univ.)

◎Technical visit

◆電気学会：電磁環境技術委員会／マグネットイックス研究会連催，Taiwan Electromagnetic Industry-Academia Consortium (TEMIAC)，IEEE EMC Society Taipei Chapter，IEEE EMC Society Sendai Chapter，IEEE EMC Society Japan Joint Chapter，and IEICE Taipei Section 協賛

◎1日（水）午後に研究施設の見学を予定しています。

◎事前登録、見学などの詳細はワークショップ特設ページを御覧下さい。

<http://j.mp/emcj-ws>

◎このプログラムは予告なく変更になる場合がございます。

☆EMCJ 研究会今後の予定 [] 内発表申込締切日

7月15日（金）機械振興会館〔締切済〕テーマ：放電，EMC一般

8月 休会

9月16日（金）兵庫県立大〔7月14日（木）〕テーマ：吸収体・シールド，EMC一般

【発表申込先】 下記研究会発表申込システムからお申込み下さい。

<http://www.ieice.org/jpn/ken/kenmoushikomi.html>

【問合先】

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