電磁環境
マグネティックス
合同研究会

【電磁環境技術委員会】
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日 時 2016年6月2日(木) 09:30-16:55
2016年6月3日(金) 09:30-15:20
場 所 BL-201, Department of Electrical Engineering, National Taiwan University (NTU)
連 催 連 催電子情報通信学会 環境電磁工学研究会（EMCJ）
議 領 テーマ「EMC Joint Workshop, 2016, Taipei」

Thu, Jun 2 Regular session 1 09:30 - 10:55
09:30-09:35 Opening Address by Committee Chairs (5 min.)
09:35-09:40 Opening Address by NTU (5 min.)

EMC-16-016 Compact Spiral Patch EBG Structure with a Shunt Capacitor for Broadband SSN Suppression
Chi-Kai Shen, Tzong-Lin Wu (NTU)

EMC-16-017 A TSV-Based Common-Mode Suppressing Filter in 3-D ICs
Chi-Hsuan Cheng, Tzong-Lin Wu (NTU)

EMC-16-018 Shielding Effectiveness of Meltblown Non-Woven Fabric Type Non-Magnetic Noise Suppressor
Sho Muroga (National Institute of Technology, Toyota College), Jiang Fu, Masahiro Yamaguchi (Tohoku University), Tomoya Tanaka, Chie Okamura, Lumina Obi, Kazufumi Kato (Asahi Kasei Co.)

10:55-11:05 Break (10 min.)

Thu, Jun 2 Regular session 2 11:05 - 12:20

EMC-16-019 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.)

EMC-16-020 An absorptive balanced bandpass filter based on slot couple lines
Siou Huei Yang, Yang Chih Huang, Ting Yi Lin (NTU)

EMC-16-021 Elminination of Radiation on Cable-Attached High-Speed Interfaces
Ying-Cheng Tseng, Po-Jui Li, Tzong-Lin Wu (NTU)

12:20-13:30 Lunch Break (70 min.)

Thu, Jun 2 Poster session 13:30 - 14:30
EMC-16-022 [Poster Presentation] 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.)

Yusuke Yano, Kengo Iokibe, Yoshihika Toyoda (Okayama Univ.)

EMC-16-024 [Poster Presentation] 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)

EMC-16-025 [Poster Presentation] Validation of Optimization Method of On-board RL Snubber According to Q Factor
Naoki Kawata, Yusuke Yano, Kengo Iokibe, Yoshihika Toyoda (Okayama Univ.)

EMC-16-026 [Poster Presentation] Characterization and Modeling of CMOS On-Chip Symmetric Coupled Transmission Lines
Chien-Chang Huang, Wei-Che Lin (Yuan Ze Univ.)

Ding-Bing Lin, Yi-Chien Chen (NTUT)

Jeff Cheng, Yen-Tang Chang (BSMI), Han-Nien Lin (Feng-Chia Univ.)

Sung-Mao Wu, Li-Wen Lai, Jia-Yu Liu, Bang-Cheng Chiu, Mong-Hua Tu (NUK), Cheng-Chang Chen, Ming-Shan Lin (BSMI)

EMC-16-030 [Poster Presentation] 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 University), Osamu Fujiiwa(Nagoya Institute of Technology)

14:00-14:30 Demonstrations ( 30 min. )
14:30-14:40 Break ( 10 min. )

Thu, Jun 2 Regular session 3 14:40 - 15:55

EMC-16-032 Identifying Dominant Factor of EMI of Asymmetrical Differentia-Paired Lines with Different Termination Condition
Yoshiki Kayano (UEC), Hiroshi Inoue (The Open Univ.)

EMC-16-033 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)

EMC-16-034 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.)

Thu, Jun 2 Invited Talk 16:05 - 16:55

EMC-16-035 [Invited Talk] Modeling and Measuring Vertical Interconnects with Impedance Control Over a Wide Frequency Range
Tzyy-Sheng Horng (National Sun Yat-sen Univ.)

EMC-16-036 Identifying Dominant Factor of EMI of Asymmetrical Differentia-Paired Lines with Different Termination Condition
Yoshiki Kayano (UEC), Hiroshi Inoue (The Open Univ.)
Fri, Jun 3 Regular session 4 09:30 - 10:45

EMC-16-036  I An experimental investigation on conducted emission characteristics of SiC MOSFET in a DC-DC boost converter  
Takaaki Ibuchi, Tsuyoshi Funaki (Osaka University)

EMC-16-037  Research of Antenna with Finite Sized Artificial Magnetic Structure in Wireless Device  
MAG-16-074  Chung-Yuan Liu, Chi-Kai Shen, Shih-Yuan Chen, Tzong-Lin Wu (NTU), Jinjia Chang, Bin-Chyi Tseng, Jackson Yen (ASUSTeK)

EMC-16-038  Metal Meshed Antenna on the Novel Ultra-Slim Flexible Glass Substrate  
MAG-16-075  Chia-Ying Tseng, Yi-Jiun Chen (National Taiwan Univ.), Kai-Jiun Wang (ITRI), Jen-Chieh Lin, Sean Garner, Scott Pollard, Kuanching Kuo (Corning Incorporated), Kao-Der Chang, Hung-Yi Lin, Yu-Ming Wang (ITRI), Hoang Yen Lin (National Taiwan Univ.)

Fri, Jun 3 Regular session 5 10:55 - 12:10

EMC-16-039  A study on system characterization of an optical E-field probe  
MAG-16-076  Takehiro Morioka, Satoru Kurokawa (AIST), Jun Ichijo, Yoshikazu Toba (SEIKOH GIKEN)

EMC-16-040  Experimental Calibration of Radiation Pattern Distortion from Phased Array Antennas due to Implementation Errors  
MAG-16-077  Hsi-Tseng Chou (National Taiwan Univ.), Dun-Yuan Cheng (Yuan Ze Univ.)

EMC-16-041  Design Considerations of Multi-Column and Multi-Band LTE Base Station Antennas to Reduce the High-Order Harmonic Signals  
MAG-16-078  Sheng-Ju Chou (Yuan Ze Univ.), Hsi-Tseng Chou (National Taiwan Univ.), Li-Ruei Kuo (Whayu Industry)

Fri, Jun 3 Invited Talk 13:20 - 14:10

EMC-16-042  [Invited Talk] EM Information Security of Tablet PCs in Public Space  
MAG-16-079  Yu-ichi Hayashi (Tohoku Gakuin Univ.)

Fri, Jun 3 Regular session 6 14:20 - 15:20

EMC-16-043  A Prediction Method of The Substrate Noise and The SI Issues in 3-D ICs Based on Modified 3-D TLM Method  
MAG-16-080  Yi-An Hsu, Chi-Hsuan Cheng, Tzong-Lin Wu (NTU)

EMC-16-044  Study on Fault Sensitivity Analysis of Cryptographic Device under IEMI  
MAG-16-081  Itoh Takuya (Tohoku Univ.), Yu-ichi Hayashi (Tohoku Gakuin Univ.), Takaaki Mizuki, Hideaki Sone (Tohoku Univ.)

15:10-15:20 Closing Address ( 10 min. )  
15:20-16:50 Technical visit ( 90 min. )

◎一般講演：発表 20 分 ＋ 質疑応答 5 分  
◎特別講演：発表 45 分 ＋ 質疑応答 5 分  
◎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