

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]

[委員長] 川又 憲 (東北学院大学)

[幹事] 牛尾知雄 (大阪大学), 関口秀紀 (海上技術安全研究所)

[幹事補佐] 林 優一 (東北学院大学)

[マグネティックス委員会]

[委員長] 山口正洋 (東北大学)

[幹事] 小原 学 (明治大学)

[幹事補佐] 山田啓壽 (東芝)

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)

議題 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
MAG-16-053 Chi-Kai Shen, Tzong-Lin Wu (NTU)

EMC-16-017 A TSV-Based Common-Mode Suppressing Filter in 3-D ICs
MAG-16-054 Chi-Hsuan Cheng, Tzong-Lin Wu (NTU)

EMC-16-018 Shielding Effectiveness of Meltblown Non-Woven Fabric Type Non-Magnetic Noise Suppressor
MAG-16-055 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
MAG-16-056 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
MAG-16-057 Siou Huei Yang, Yang Chih Huang, Ting Yi Lin (NTU)

EMC-16-021 Elimination of Radiation on Cable-Attached High-Speed Interfaces
MAG-16-058 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
MAG-16-059 Airi Sugimoto (Tohoku Univ.), Yu-ichi Hayashi (Tohoku Gakuin Univ.), Takaaki Mizuki, Hideaki Sone (Tohoku Univ.)
- EMC-16-023 [Poster Presentation] Investigation of Relationship between Signal-to-Noise Ratio of EM Information
MAG-16-060 Leakage and Side-Channel Attacking Cost.
Yusuke Yano, Kengo Iokibe, Yoshitaka Toyota (Okayama Univ.)
- EMC-16-024 [Poster Presentation] An on-chip dual-mode rat-race coupler for closely-spaced two-element antenna arrays
MAG-16-061
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
MAG-16-062 Naoki Kawata, Yusuke Yano, Kengo Iokibe, Yoshitaka Toyota (Okayama Univ.)
- EMC-16-026 [Poster Presentation] Characterization and Modeling of CMOS On-Chip Symmetric Coupled Transmission
MAG-16-063 Lines
Chien-Chang Huang, Wei-Che Lin (Yuan Ze Univ.)
- EMC-16-027 [Poster Presentation] A Broadband Filter Design for Common-Mode Noise Rejection with Multilayer
MAG-16-064 Mushroom Structure in Differential Transmission Line
Ding-Bing Lin, Yi-Chien Chen (NTUT)
- EMC-16-028 [Poster Presentation] Design and Application of Radio Frequency Current Probe for IC-EMI Measurement
MAG-16-065
Jeff Cheng, Yen-Tang Chang (BSMI), Han-Nien Lin (Feng-Chia Univ.)
- EMC-16-029 [Poster Presentation] Near-field to Far-field Transformation using Non-contacting Near-field Measurement
MAG-16-066 with Kirchoff 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)
- EMC-16-030 [Poster Presentation] A study on the relation between surface roughness of spherical electrode and amplitude
MAG-16-067 of electromagnetic radiation due to ESD
Kenichiro Abe, Ken Kawamata, Shigeki Minegishi(Tohoku Gakuin University), Osamu Fujiwara(Nagoya Institute of Technology)
- EMC-16-031 [Poster Presentation] Measurement of current distribution on vertical coupling plane in the ESD immunity test
MAG-16-068 Ryuta Koike, Ken Kawamata, Shinobu Ishigami, Shigeki Minegishi(Tohoku Gakuin University)

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
MAG-16-069 Condition
Yoshiki Kayano (UEC), Hiroshi Inoue (The Open Univ.)
- EMC-16-033 Calculating EMS and EMI for Volumes of Microstrip Lines by Analytical Formula
MAG-16-070 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
MAG-16-071 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
MAG-16-072 Frequency Range
Tzyy-Sheng Horng (National Sun Yat-sen 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
MAG-16-073 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, Kuan-Ting Kuo (Corning Incorporated), Kao-Der Chang, Hung-Yi Lin, Yu-Ming Wang (ITRI),
Hoang Yan 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
MAG-16-077 Errors
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
MAG-16-078 High-Order Harmonic Signals
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
MAG-16-080 Method
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