

★環境電磁工学研究会 (EMCJ)

専門委員長 曾根秀昭 副委員長 和田修己

幹事 森岡健浩・大坂英樹 幹事補佐 荳野良樹・勝部勇作・佐々木智江

◎本研究会は平成 29 年度において参加費が必要になりますので、下記を御参照下さい。

http://www.ieice.org/cs/kensen/special/e_gihou2017/e_gihou2017_index.html

日時 5月18日(木) 13:00~17:15

19日(金) 10:00~14:50

会場 南洋理工大学 (<http://www.ntu.edu.sg/Pages/home.aspx> See Kye Yak (Nanyang Technological Univ.) Gao Xian Ke Richard (A*STAR))

議題 EMC Joint Workshop, 2017, Singapore

18日 一般講演セッション1

EMCJ-1. Far field antenna factor calibration for ridged guide horn antenna

○Satoru Kurokawa・Masanobu Hirose・Yuanfeng She・Michitaka Ameya (AIST)

EMCJ-2. Impact of LISN on EMI Filter Performance

○Kangrong Li・Kye Yak See (Nanyang Technological Univ.)

EMCJ-3. Evaluation of Fibre Weaving of Substrate on Differential Transmission Lines

○Eng Kee Chua・Junwu Zhang・Kye Yak See・Wee Jin Koh・Weng Yew Chang (Nanyang Technological Univ.)

ポスターセッション

EMCJ-4. [ポスター講演] Fundamental Study on the Effect of Contact Condition at Gap of Transmission Line on Transmission Characteristic

○Kenji Aihara (Tohoku Univ.)・Yu-ichi Hayashi (Tohoku Gakuin Univ.)・Takaaki Mizuki・Hideaki Sone (Tohoku Univ.)

EMCJ-5. [ポスター講演] A Method of Fault Detection in Encryption Device based on Leaked EM Information from Adder Circuit

○Naoto Saga (Tohoku Univ.)・Yu-ichi Hayashi (Tohoku Gakuin Univ.)・Takaaki Mizuki・Hideaki Sone (Tohoku Univ.)

EMCJ-6. [ポスター講演] Electromagnetic information leakage analysis of cryptographic IC by correlation power analysis

○Yasunari Kumano・Yusuke Yano・Kengo Iokibe・Hiroto Kagotani・Yositaka Toyota (Okayama Univ.)

EMCJ-7. [ポスター講演] Continuity Condition on Single Conductor Transmission Line Model for Thin Wire Structures

○Daiki Tashiro・Takashi Hisakado・Tohlu Matsushima・Osami Wada (Kyoto Univ.)

EMCJ-8. [ポスター講演] Evaluation of RF Immunity of CAN-FD Transceivers during Data-frame Communication by Using DPI Method

○Kohei Kawanishi・Tohlu Matsushima・Takashi Hisakado・Osami Wada (Kyoto Univ.)

EMCJ-9. [ポスター講演] Communication Quality of Ethernet in Relation to Parameters of Pulse Disturbance and Imbalance of Signal Transmission System

○Sayaka Matsushima・Osami Wada・Takashi Hisakado・Tohlu Matsushima (Kyoto Univ.)

EMCJ-10. [ポスター講演] Modal-Equivalent-circuit Analysis for Suppression of Emission by Mode Conversion in Four-Conductor Transmission-Line

○Ryota Irishika・Kengo Iokibe・Yoshitaka Toyota (Okayama Univ.)

EMCJ-11. [ポスター講演] Transmission Characteristics of Band Pass Space Filter Using Metal Grid from Microwave to Millimeter Waves

○Yuta Sugiyama・Shinichiro Yamamoto・Kenichi Hatakeyama (Univ. of Hyogo)・Takanori Tsutaoka (Hiroshima Univ.)

12. [ポスター講演] A study on the equivalent circuit modeling of dual LISN for evaluating wide-band conducted emission

Takaaki Ibuchi・○Shunji Mori・Tsuyoshi Funaki (Osaka Univ.)

13. [ポスター講演] Study on current characteristic injected to vertical coupling plane in the ESD immunity test

○Ryuta Koike・Ken Kawamata・Shinobu Ishigami・Shigeki Minegishi (Tohoku Gakuin Univ.)

14. [ポスター講演] Measurement of discharge current in electrode surface caused by micro gap ESD

○Masato Oikawa・Ken Kawamata・Shinobu Ishigami・Shigeki Minegishi (Tohoku Gakuin Univ.)・Osamu Fujiwara (Nagoya Inst. of Tech.)

15. [ポスター講演] High frequency properties of hexaferrite and its application to IC chip interposer

○Mitsuharu Sato・Ranjit Sai・Akihiro Takahashi・Masahiro Yamaguchi (Tohoku Univ.)

◎Demonstrations

招待講演

16. 〔招待講演〕 Magnetic noise suppressor to facilitate compatibility between power electronic system and next generation RF IC for telecommunication

○Masahiro Yamaguchi・Satoshi Tanaka (Tohoku Univ.)・Makoto Nagata (Kobe Univ.)・Kazushi Ishiyama (Tohoku Univ.)・Koichi Kondou (NEC TOKIN)・Yasuyuki Okiyonedo (SHOWA AIRCRAFT INDUSTRY)

19日午前 一般講演 セッション2

1. 5 MHz switching operation of a GaN-based DC-DC converter with a metal composite bulk magnetic core inductor
○Takaaki Ibuchi・Tsuyoshi Funaki (Osaka Univ.)

EMCJ-2. A Study on Design of Bent Differential-Paired Lines by Preference Set-based Design Method

○Yoshiki Kayano・Yoshio Kami・Haruo Ishikawa・Fengchao Xiao (Univ. of Electro-Comm.)・Hiroshi Inoue (Open Univ.)

EMCJ-3. Common-Mode Noise Filter Design based on Defected Ground Structure (DGS) for Multilayer PCBs

○Hui Min Lee・Si Ping Gao・Richard Xian-Ke Gao・En Xiao Liu (A*STAR IHPC)

EMCJ-4. A Power Distribution Network Design pre-layout model for High-Speed circuit Power Integrity design and analysis

○Junwu Zhang・Eng Kee Chua・Kye Yak See・Wee Jin Koh・Weng Yew Chang (Nanyang Technological Univ.)

19日午後 招待講演

EMCJ-5. 〔招待講演〕 2.5D Method of Modeling and Simulation for Signal/Power Integrity of High Speed Electronics

○En-Xiao Liu・Siping Gao・Hui Min Lee (A*STAR IHPC)

EMCJ-6. 〔招待講演〕 Towards Higher Speed and Less Interference: Virtual EMC Lab

○Richard Xian-Ke Gao・Huapeng Zhao・Eng Kee Chua・Binfang Wang (A*STAR IHPC)

◆電気学会；電磁環境技術委員会／マグネティックス研究会連催。IEEE EMC Society Sendai Chapter/IEEE EMC Society Japan Joint Chapter, Investigating R & D Committee on Practical Applications of High-Frequency Magnetic Materials 協賛

◎ワークショップ特設ページを御覧下さい。

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

☆EMCJ 研究会今後の予定 [] 内発表申込締切日

6月5日(月) 札幌コンベンションセンター〔締切済〕テーマ：パワエレ, EMC 一般

7月21日(金) 機械振興会館〔5月15日(月)〕テーマ：放電, EMC 一般

8月 休会

【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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