

★環境電磁工学研究会 (EMCJ)

専門委員長 和田修己 副委員長 王 建青

幹事 青柳貴洋・白木康博 幹事補佐 長澤 忍・山本真一郎・鶴生高德

◎本研究会は参加費が必要になります。

通ソの技報完全電子化研究会に関する御案内ページ

https://www.ieice.org/cs/jpn/kensen/special/e_gihou/e_gihou.html

日時 11月22日(木) 9:00~17:35

23日(金) 9:00~15:40

会場 National Nano Fab Center (NNFC), Korea Advanced Institute of Science and Technology (KAIST)

議題 EMC Joint Workshop 2018, Daejeon

22日午前

EMCJ-1. EMI Reduction Method for Wireless Charging Mobile Devices Application using Planar Resonance Reactive Shield ○Jaehyoung Park・Seungyoung Ahn (KAIST)

EMCJ-2. Study of Non-contact Heartbeat Sensing Method using EM Waves Passing through the Human Body ○Kazutaka Mitsui・Jianqing Wang・Daisuke Anzai (Nagoya Inst. of Tech.)・Takashi Saito・Hiroyuki Mori・Shunsuke Shibata (SOKEN)・Kouichi Yamada (DENSO)

EMCJ-3. Magnetic Field Shielding Effectiveness Measurement and Comparative Analysis of Package Level Shielding Materials ○Kyunghwan Song・Jounho Kim・Seungyoung Ahn (KAIST)

EMCJ-4. [招待講演] Novel numerical analysis based on the finite-difference time-domain method in the low frequencies bands ○SangWook Park (KATECH)・Minhyuk Kim (Samsung)・Hyun-Kyo Jung (Seoul National Univ.)・EunHa Kim (KATECH)

22日午後

EMCJ-5. [招待講演] Security Simulation of Cryptographic Module in Side-Channel Analysis Attack Kengo Iokibe (Okayama Univ.)

EMCJ-6. [ポスター講演] Fundamental Study on Degradation of Randomness in TRNG Due to Intentional Electromagnetic Interference

○Saki Osuka・Daisuke Fujimoto (NAIST)・Naofumi Homma (Tohoku Univ.)・Arthur Beckers・Josep Balasch・Benedikt Gierlichs・Ingrid Verbauwhede (KU Leuven)・Yu-ichi Hayashi (NAIST)

EMCJ-7. [ポスター講演] WideBand Equivalent Circuit Model of Through-Silicon-Via with MOS Capacitance Effect ○Kibeom Kim・Seungyoung Ahn (KAIST)

EMCJ-8. [ポスター講演] A Specification Method of Faulty Bytes in Cryptographic Module Using EM Information Leakage

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

EMCJ-9. [ポスター講演] Design and Analysis of EMI Shielding Method using Intermediate Coil for Train WPT System ○Seongsoo Lee・Seungtaek Jeong・Seokwoo Hong・Boogyo Sim・Kyungjun Cho・Junyong Park・Joungho Kim (KAIST)

EMCJ-10. [ポスター講演] Suppression Method of Near Magnetic Field Leaking from Ventilation Holes of Metallic Enclosure ○Hiroshi Takahara・Shinichiro Yamamoto・Kenichi Hatakeyama (Univ. of Hyogo)・Tohru Iwai (Kawasaki Techno-Research)・Satoru Aikawa・Masakazu Morimoto (Univ. of Hyogo)

EMCJ-11. [ポスター講演] Design and Analysis of Receiver Channels of Glass Interposers for 5G Small Cell Front End Module ○Gapyeol Park・Youngwoo Kim・Kyungjun Cho・Junyong Park・Kyungjune Son・Hyunwook Park (KAIST)・Atom Watanabee・Pulugurtha Markondeya Raj・Venky Sundaram・Rao Tummala (Georgia Inst. of Tech.)・Joungho Kim (KAIST)

EMCJ-12. [ポスター講演] グラウンドスロットのあるマイクロストリップ線路からの不要電磁波放射の伝送線路法を用いた解析 ○金井健人・戸花照雄・磯田陽次 (秋田県立大)

EMCJ-13. [ポスター講演] Noise coupling path analysis of RF Interference in a Vehicular Electronic System

○Jangyong Ahn・Seungyoung Ahn (KAIST)

EMCJ-14. [ポスター講演] 貫通孔導波管を用いた腹部脂肪測定法のボクセルモデルによる数値シミュレーション

○田中伸明・青柳貴洋 (東工大)

EMCJ-15. [ポスター講演] An Electromagnetic Field Reduction Method for Inductive Power Transfer in Transportation System ○Jedok Kim・Seungyoung Ahn (KAIST)

EMCJ-16. [ポスター講演] Study on Estimation of Sensing Timing Based on Observation of EM Radiation from

- Ultrasonic Range Finder ○Daisuke Fujimoto・Yu-ichi Hayashi (NAIST)
- EMCJ-17. [ポスター講演] Ground Integrity Analysis in an On-chip Low-Dropout Regulator to PCB Hierarchical Power Distribution Network ○Shinyoung Park・Subin Kim・Joungho Kim (KAIST)
- EMCJ-18. [ポスター講演] EM Shielding Effectiveness of Artificial Designed Materials from Microwave to Millimeter-wave Band ○Takaki Nishiuchi・Shinichiro Yamamoto・Kenichi Hatakeyama (Univ. of Hyogo)・Tohru Iwai (Kawasaki Techno-Research)・Satoru Aikawa・Masakazu Morimoto (Univ. of Hyogo)
- EMCJ-19. [ポスター講演] 注入信号の位相を考慮した意図的電磁妨害が暗号モジュールにおける故障発生に与える影響 ○竹之内光樹 (東北大)・林 優一 (奈良先端大)・水木敬明・曾根秀昭 (東北大)
- EMCJ-20. [ポスター講演] Signal Integrity Analysis for High-speed Memory Test Interface using Data Capture PCB ○Hyesoo Kim・Kyungjun Cho・Seongguk Kim・Joungho Kim (KAIST)
- EMCJ-21. [ポスター講演] 伝導性妨害波に対する CAN-FD のイミュニティ評価のための BAN の高周波化に向けた検討 ○三井悠也・松島 徹・福本幸弘 (九工大)
- EMCJ-22. [ポスター講演] 基板上に分布するノイズを用いた暗号モジュールへの非侵襲攻撃検知手法に関する基礎検討 ○和田慎平・藤本大介・林 優一 (奈良先端大)
- EMCJ-23. [ポスター講演] Design, Analysis and Implementation of Smartwatch Strap Wireless Power Transfer System using Flexible Coil and Shielding Materials ○Seungtaek Jeong・Seongsoo Lee・Seokwoo Hong・Boogyo Sim・Subin Kim・Shinyoung Park・Joungho Kim (KAIST)
24. [ポスター講演] Estimation of discharge current using a shielded loop probe caused by micro-gap ESD in spherical electrode ○Masato Oikawa・Ken Kawamata・Shinobu Ishigami・Shigeki Minegishi (Tohoku-Gakuin Univ.)・Osamu Fujiwara (Nagoya Inst. of Tech.)
25. [ポスター講演] Fundamental Study on Reproducibility of Faulty Outputs from Cryptographic Module Using TEM Cell ○Taiyo Suzuki (Tohoku-Gakuin Univ.)・Yuichi Hayashi (NAIST)・Shinobu Ishigami・Ken Kawamata・Shigeki Minegishi (Tohoku-Gakuin Univ.)
- EMCJ-26. ESD Evaluation of Wireless Myoelectric Artificial Hand with Bio-Equivalent Arm Phantom ○Keinosuke Nagai・Daisuke Anzai・Jianqing Wang (Nagoya Inst. of Tech.)
- EMCJ-27. A Novel Eye-Diagram Estimation Method for Pulse Amplitude Modulation with N-level on Stacked Through Silicon Vias ○Junyong Park・Youngwoo Kim・Kyungjun Cho・Seongsoo Lee・Joungho Kim (KAIST)
- EMCJ-28. Investigation of CAN transceiver and controller response to electromagnetic disturbance by using current injection probe ○Ryunosuke Isshiki・Kengo Iokibe・Takuya Kusaka・Tetsushi Kamegawa・Yasuyuki Nogami (Okayama Univ.)

23 日午前

- EMCJ-1. [Invited Talk] Statistical Eye-diagram Estimation Method Considering Power/Ground Noise Generated by Simultaneous Switching Output Buffers
○Youngwoo Kim・Junyong Park・Kyungjun Cho・Joungho Kim (KAIST)
2. [Invited Talk] Evaluation and compensation of common mode voltage induced on the differential voltage probe in floating measurement of high voltage power electronics circuit
○Tsuyoshi Funaki・Kei Hayashi・Takaaki Ibuchi (Osaka Univ.)
- EMCJ-3. Electromagnetic radiation by IC chip and evaluation of mobile communication interference
○Yoshifumi Sugimoto・Koh Watanabe・Makoto Nagata・Noriyuki Miura (Kobe Univ.)・Yasunori Miyazawa・Satoshi Tanaka・Masahiro Yamaguchi (Tohoku Univ.)
- EMCJ-4. Fast and Accurate Modeling of Power Distribution Network (PDN) for a Silicon Interposer
○Kyungjun Cho・Youngwoo Kim・Subin Kim・Hyunwook Park・Joungho Kim (KAIST)
- EMCJ-5. クロストーク抑制のための周期構造差動線路の設計への選好度付きセットベースデザイン手法の適用
○竹田大晃・五百旗頭健吾・豊田啓孝 (岡山大)

23 日午後 (13:15~)

- EMCJ-6. [招待講演] Measurements of electromagnetic radiation disturbance for heavy WPT systems—For Activity at CISPR B/WG1/Ad-hoc Group 5 & 6— ○Yangbae Chun・Seungyoung Ahn (KAIST)
7. IC チップインタポーザ実装用磁性微粒子コンポジットノイズ抑制体 高橋昭博・佐藤光晴・宮澤安範・田中聡・○山口正洋 (東北大)・地家幸佑・渡邊 航・梶本祥史・三浦典之・永田 真 (神戸大)
8. A study on common and differential mode separation for conducted disturbance measured with DP-LISN
○Shunji Mori・Takaaki Ibuchi・Tsuyoshi Funaki (Osaka Univ.)
9. 擬似分布定数型ラインフィルタの実機適用時の伝導ノイズ抑制効果と基板の寄生容量との関係
○大平祐介・栗本正樹・近藤幸一・原田公樹 (トーキン)

◆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 協賛

◎EMC ワークショップ特設ページ http://www.ieice.org/cs/emcj/jpn/regular/emcj-ws2018_02.html を御覧下さい.

☆EMCJ 研究会今後の予定 [] 内発表申込締切日

12月14日(金) デンソー [締切済] テーマ: 電力・生体, EMC 一般

2019年1月18日(金) 阪大 [11月13日(火)] テーマ: パワーエレクトロニクス, EMC 一般

2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.

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

【問合せ先】

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