



2018

*Joint IEEE International Symposium
on Electromagnetic Compatibility
& Asia-Pacific International Symposium
on Electromagnetic Compatibility*

2018 Joint IEEE EMC & APEMC

14-17 May 2018, Singapore

Advance Program

Suntec Convention & Exhibition Center



TECHNICAL PROGRAM AT A GLANCE

Color codes: **Workshops** **Tutorials** **Special Sessions** **Topical Meetings** **Regular Sessions** **Plenary Talks** **Opening Ceremony & Keynote** **Interactive Forum** **Expt & Demo**

Date	Time		Room #331	Room #332	Room #333	Room #334	Room #335	Room #336	IF & ED Sessions	Exhibition	
May 14th (MO)	08:30am 10:00am	AM-I	WS-01: EMC in Railway Systems	WS-2: Electromagnetic Compatibility for 5G Communications Beyond	TT-01: EMC Fundamentals	TT-03: Introduction to EMI Modeling Techniques	TT-04: Advances in Automotive EMC Test and Measurement	TT-06: Using Reverberation Chambers for EM Experiments and EMI Testing			
	10:00am 10:30am		Tea Break								
	10:30am 12:30pm	AM-II	WS-01: EMC in Railway Systems	WS-2: Electromagnetic Compatibility for 5G Communications Beyond	TT-01: EMC Fundamentals	TT-03: Introduction to EMI Modeling Techniques	TT-04: Advances in Automotive EMC Test and Measurement	TT-06: Using Reverberation Chambers for EM Experiments and EMI Testing			
	12:30pm 01:30pm		Lunch								
	01:30pm 03:30pm	PM-I	WS-03: EMC & EMF Safety Aspects of Wireless Power Transfer in Transportation Systems	TT-02: Protection of Civil Infrastructures Against Intentional EMI	WS-05: Computational Electromagnetics (CEM) for EMC Applications	WS-04: Lightning Protection of Wind Turbines	TT-05: Advances in Antenna Calibration and Measurements for EMC Applications	WS-07: Use of FFT-Based Measuring Instruments in EMI Testing			
	03:30pm 04:00pm		Tea Break								
	04:00pm 06:00pm	PM-II	WS-03: EMC & EMF Safety Aspects of Wireless Power Transfer	TT-02: Protection of Civil Infrastructures Against Intentional EMI	WS-05: Computational Electromagnetics (CEM) for EMC Applications	WS-04: Lightning Protection of Wind Turbines	TT-05: Advances in Antenna Calibration and Measurements for EMC Applications	WS-06: (a) EMC for Automotive WS-06: (b) EMC for Medical Equipment			
		Welcome Reception									
May 15th (TU)	08:30am 10:10am	AM-I	TC-10: SI/PI	TM-02: EMC in Railway Systems	TC-02: EMC Measurement	TC-09: Computational Electromagnetics	TC-12: EMC for Emerging Wireless Tech	TM-04: EMC in Power Electronics and Smart Grid			
	10:10am 10:30am		Tea Break								
	10:30am 12:30pm	AM-II	Opening Ceremony for 2018 Joint IEEE EMC & APEMC Chair: <i>Er-Ping Li, Symposium President; En-Xiao Liu, Symposium General Chair</i> Venue: Summit 2, Level 3 Plenary Talk I: (title) (name, affiliation, country) Plenary Talk II: (title) (name, affiliation, country)								
	12:30pm 01:30pm		Lunch								
	01:30pm 03:30pm	PM-I	TC-10: SI/PI	SS-07: Aerospace EMC	SS-10: Techniques & Measures to Manage Risks With Regard to EM Disturbances	TC-09: Computational Electromagnetics	SS-05 (TM): Potential Electromagnetic Techniques for Booming Wireless Communications	TC-05: EM Information Leakage	3:00pm-5:00pm		
	03:30pm 04:00pm		Tea Break								
04:00pm 06:00pm	PM-II	TM-01: IC EMC	SS-08: Simulation and testing for Automotive EMC	SS-12: Electromagnetic Shielding Technology for Mobile Devices	TC-04: EMI Control Methods	SS-05 (TM): Potential Electromagnetic Techniques for Booming Wireless Communications	TC-05: Lightning and System Protection	Experiment & Demo Session I			
06:30pm 09:00pm											

TECHNICAL PROGRAM AT A GLANCE

Color codes: Workshops (orange), Tutorials (light blue), Special Sessions (green), Topical Meetings (pink), Regular Sessions (yellow), Plenary Talks (light green), Opening Ceremony & Keynote (yellow), Poster Sessions (light blue), Expt & Demo (grey)

Date	Time		Room #331	Room #332	Room #333	Room #334	Room #335	Room #336	Poster Sessions	Exhibition		
May 16th (WE)	08:30am 10:10am	AM-I	TC-10: SI/PI	TC-06: Spectrum	TC-09: CEM and EMI	TC-09: Computational Electromagnetics	SS-04: Emerging Technologies and EMC	SS-13: EMC Issues Related to Common-mode Noise		Open		
	10:10am 10:30am		Tea Break									
	10:30am 12:30pm	AM-II	TC-10: SI/PI	TM-03: WPT	TC-02: EMC Measurement	Plenary Talk III: (name, affiliation, country) Plenary Talk IV: (name, affiliation, country)			12:00pm-2:00pm			
	12:30pm 01:30pm		Lunch								E&D Session II	
	01:30pm 03:30pm	PM-I	TM-01: IC EMC	SC-07: Aeronautics and Space EMC	SS-09: Hardware Security for IoT Devices	TC-04: EMI	TC-12: EMC for Emerging Wireless Tech	SS-01: EMC for Wind Farms and Solar PV Plants	3:00pm-5:00pm			
	03:30pm 04:00pm		Tea Break								E&D Session III	
	04:00pm 05:20pm	PM-II	TM-05: Biomedical Electromagnetic	SS-08: Simulation and testing for Automotive EMC	SS-11: Advance measurement technologies for 5G	TC-09: Computational Electromagnetics	TC-11: Nano & Advanced Materials	TC-05: IEMI and Transients	Best Student Paper Session			
	06:30pm 09:00pm		Symposium Banquet Dinner									
May 17th (TH)	08:30am 10:10am	AM-I	TM-05: Biomedical Electromagnetic	TM-02: EMC in Railway Systems	SS-11: Advance measurement technologies for 5G	TM-06: Efficient and Accurate Simulation of Multi-Scale EMC & SI/PI Problems (I)	SS-05 (TM): Potential Electromagnetic Techniques for Booming Wireless Communications	TM-04: EMC in Power Electronics and Smart Grid		Open		
	10:10am 10:30am		Tea Break									
	10:30am 12:30pm	AM-II	TC-10: SI/PI	TM-03: WPT	SS-09: Hardware Security for IoT Devices	TM-06: Efficient and Accurate Simulation of Multi-Scale EMC & SI/PI Problems (II)	SS-05 (TM): Potential Electromagnetic Techniques for Booming Wireless Communications	TM-04: EMC in Power Electronics and Smart Grid				
	12:30pm 01:30pm		Lunch									
	01:30pm 03:30pm	PM-I	SS-02: Metamaterials /metasurfaces for Manipulations of Electromagnetic Waves	SS-14: Radio Frequency Remote Sensing	TC-02: EMC Measurement	TM-06: Efficient and Accurate Simulation of Multi-Scale EMC & SI/PI Problems (III)	SS-06: Design and Modeling of Emerging EM Components and Devices	TC-05: Electrostatic Discharge and Arcs		Closing		
	03:30pm 03:50pm		Tea Break									
	03:50pm 05:30pm	PM-II	TC-10: SI/PI	TC-04: EMI/EMC	TC-01/02/03: EMC Management, Measurement and Environment	TM-06: Efficient and Accurate Simulation of Multi-Scale EMC & SI/PI Problems (IV)	SS-06: Design and Modeling of Emerging EM Components and Devices	TC-04: EMI/EMC				
-- The End --												

Technical Sessions – Tuesday, May 15, 2018 (AM-I)

Rooms	Room #331	Room #332	Room #333
08:30am – 10:10am	TC-10: SI/PI Chair(s):	TM-02: EMC in Railway Systems Chair(s): Pignari Sergio and Kai Sang Lock	TC-02: EMC Measurements Chair(s):
08:30am	TU-AM-I-TC-10-1 Eye-Diagram Estimation with Stochastic Model for 8B10B Encoded High-Speed Channel (#8768) Junyong Park, Dong-Hyun Kim, Youngwoo Kim, Sumin Choi, JoungHo Kim (Electrical Engineering, Korea Advanced Institute of Science and Technology (KAIST))	TU-AM-I-TM-02-1 Research on Electromagnetic Radiation of Xijiang Traction Substation (#8766) Xiaohu Zeng (Huazhong University of Science & Technology)	TU-AM-I-TC-02-1 Analysis on the Adaptability of the International Radiation Immunity Test Method to Intelligent Connected Vehicle (#8729) Yifu Ding, Guangyu Zhang, Zhiguo Zhang, Xu Zhang, Yue Zhang (China Automotive Technology&Research Center)
08:50am	TU-AM-I-TC-10-2 1:4 Tree Microstrip Interconnect Kron-Branin Model (#8776) Blaise Ravelo (IRSEEM), Olivier Maurice (Ariane Group)	TU-AM-I-TM-02-2 Practical Considerations of Human Exposure in Railway Systems (#8827) Shinichi Sadamitsu (Mitsubishi Heavy Industries, Ltd, Japan), Peter Sai-Wing Leung (City University of Hong Kong), Tony W K LO (EMC Consortium Limited), Weinong Sun (City University of Hong Kong)	TU-AM-I-TC-02-2 Impacts to Measurement Uncertainty of Radiated EMI Measurement by Setting Terminating Condition of AC Mains Cable Leaving from Test Area (#8814) Kunihiro Osabe (VCCI Council), Nobuo Kuwabara (Kyushu Institute of Technology), Hidenori Muramatsu (VCCI Council)
09:10am	TU-AM-I-TC-10-3 Noise Coupling Analysis for High Speed Differential Trace Crossing Switching Voltage Regulator Area (#8783) Yang Wu (Cisco Systems)	TU-AM-I-TM-02-3 Induced Voltage Study and Measurement for Communication System in Railway (#9892) Aircrafts in the Near-Space Yang Li, Chin Hian Leow, Wee Leong Lau (ST Electronics (Info-Comm Systems) Pte Ltd), Meng Chuan Kelvin Ong (Land Transport Authority)	TU-AM-I-TC-02-3 A Lumped Model of the Rod Antenna Measurement Setup for Automotive and Military Testing (#8820) Carlo Carobbi (University of Florence)
09:30am	TU-AM-I-TC-10-4 Enabling the Next Generation USB 3.1 (Gen 2) in mobile devices (#8832) Nitin Srivastava (Samsung Electronics)	TU-AM-I-TM-02-4 Research on stray current distribution of Metro based on Numerical Simulation (#9577) Yanhua Lin (Beijing Jiaotong University), Kunpeng Li (Guangzhou Metro Design&Research Institute Co. Ltd), Mengmeng Su (Beijing Jiaotong University), Yang Wu (Tsinghua University)	TU-AM-I-TC-02-4 Investigation of Leveling Methods in Military Susceptibility Testing (#8963) Soydan Cakir, Osman Sen, Mehmet Cinar, Mustafa Cetintas (TUBITAK UME)
09:50am	TU-AM-I-TC-10-5 Ceramic Interconnect Bridge for Heterogeneous Multiple Chip Packaging (#9923) Boping Wu (Huawei Technologies)	TU-AM-I-TM-02-5 EMC Environmental Survey of Railway Systems (#10110) Patrick Wong, Tony W K LO (EMC Consortium Limited, Hong Kong), Richard Fung, Kam Chuen Lee (Hong Kong Standards and Testing Centre)	TU-AM-I-TC-02-5 Risk Assessment and Mitigation for the Hazards of Electromagnetic Radiation to Fuel during High Intensity Radiated Field Testing of Aircraft (#9061) Adrian Monk, Timothy Duggan (QinetiQ)

Technical Sessions – Tuesday, May 15, 2018 (AM-I)

Rooms	Room #334	Room #335	Room #336
08:30am – 10:10am	TC-09: Computational Electromagnetics Chair(s):	TC-12: EMC for Emerging Wireless Tech. Chair(s):	TM-04: EMC in Power Electronics and Smart Grid Chair(s): Henglin Chen and Flavia Grassi
08:30am	TU-AM-I-TC-09-1 Broadband Green's Function with Higher Order Low Wavenumber Extractions for Arbitrary Shaped Waveguide Obeying Neumann Boundary Conditions (#9043) Weilun Kwek (University of Michigan), Kung-Hau Ding (Air Force Research Laboratory, Wright-Patterson AFB), Tien-Hao Liao (California Institute of Technology), Leung Tsang (University of Michigan)	TU-AM-I-TC-12-1 3D Coverage Optimization Rereasch on 5G Massive MIMO Antenna Array (#9012) Feng Gao (China Mobile Group Design Institute Co., Ltd.), Runhong Shan (Copyright Protection Center of China), Wenyu Su (China Putian Corperation), Wentao Zhu (China Mobile Group Design Institute Co., Ltd.), Kai He (China Mobile Group Design Institute Co., Ltd.), Lifang Wang (China Mobile Group Design Institute Co., Ltd.)	TU-AM-I-TM-04-1 A Comprehensive Investigation on Conducted EMI Reduction for Variable Switching Frequency PWM (#8896) Jianan Chen, Dong Jiang, Xuan Zhao (Huazhong University of Science and Technology)
08:50am	TU-AM-I-TC-09-2 Inductor modeling with Huygens's equivalent model to estimate coupling noise (#9214) Chen-Jun LIU, Gezi Zhang, Xuequan Yu (Huawei Technologies Co. Ltd.)	TU-AM-I-TC-12-2 Digital-Domain Assisted RF Cancellation of Nonlinear Wideband Self-Interference for Co-site Wireless Communication Systems (#9052) Songhu Ge, Jinling Xing, Jin Meng (Naval University of Engineering)	TU-AM-I-TM-04-2 Active-Common-Mode-Cancellation (#9206) Stephan Cordes (Infineon Technologies AG)
09:10am	TU-AM-I-TC-09-3 Application of the Artificial Material Single Layer (AMSL) Method to Assess the Magnetic Field Generated by a WPT System with Shield (#9274) Silvano Cruciani, Tommaso Campi (University of L'Aquila), Francesca Maradei (Sapienza University), Mauro Feliziani (University of L'Aquila)	TU-AM-I-TC-12-3 An Experimental Study of WiFi Performance Impact Due to SSC Spread-Percentage and Modulation Frequency (#9095) Kae-An Liu, Jaejin Lee, Hao-Han Hsu, Chung-Hao Chen (Intel Corporation)	TU-AM-I-TM-04-3 Design of an Active EMI Filter for Bearing Current Elimination in VFD (#9296) Anagha E R, Nisha P V, Sindhu T K (National Institute of Technology Calicut)
09:30am	TU-AM-I-TC-09-4 Analysis of Field-to-Transmission Line Coupling inside a Reverberation Chamber based on Mode Expansion Method (#9584) Yuan Zhao (Sichuan University), Qiang Liu (Institute of Applied Physics and Computation Mathematics), Xiang Zhao,	TU-AM-I-TC-12-4 Radiated Immunity Field Uniformity Enhancement Techniques for millimeter Wave Frequencies (#9231) Dheena Moongilan (Nokia Bell Labs)	TU-AM-I-TM-04-4 Analysis of CM EMI Reduction with Zero CM Modulation Scheme Utilizing Paralleled Inverters (#8904) Zewei Shen, Dong Jinag, Yechi Zhang (Huazhong University of Science and Technology)

	<p><i>Liping Yan, Changjun Liu (Sichuan University), Haijing Zhou (Institute of Applied Physics and Computation Mathematics), Kama Huang (Sichuan University)</i></p>		
09:50am	<p>TU-AM-I-TC-09-5 Numerical Investigation of Orbital Angular Momentum Density of Antenna Arrays Based on the Method of Moments (#9344) <i>Woocheon Park (Ajou University), Dong Gun Kam (Ajou University), Heinz-D. Brüns (Hamburg University of Technology), Christian Schuster (Hamburg University of Technology)</i></p>	<p>TU-AM-I-TC-12-5 Radio Frequency Interference Estimation Using Transfer Function Based Dipole Moment Model (#9494) <i>Qiaolei Huang, Yuanzhuo Liu, Liang Li, Yansheng Wang, Chunyu Wu, Jun Fan (Missouri University of Science and Technology)</i></p>	<p>TU-AM-I-TM-04-5 A Full Time Domain Methodology based on Near Field Time Reversal for Equivalent Source Identification (#9618) <i>Sassia Hedia (Université Paris-Sud), Bessem Zitouna (University of Sousse), Jaleddine Ben Hadj Slama (University of Paris Saclay), Lionel Pichon (University of Sousse)</i></p>

Technical Sessions – Tuesday, May 15, 2018 (PM-I)

Rooms	Room #331	Room #332	Room #333
01:30pm – 03:30pm	TC-10: SI/PI <i>Chair(s):</i>	SS-07: Aerospace EMC <i>Chair(s): Robert Scully and Flavia Grassi</i>	SS-10: Techniques & Measures to Manage Risks with Regard to EM Disturbances <i>Chair(s): Keith Armstrong and Andy Degraeve</i>
01:30pm	TU-PM-I-TC-10-1 Floorplanning and Pin Assignment Co-Optimization for 3D Integrated Circuit Using Simulated Annealing (#8998) <i>Quan-Chao Su, Mu-Shui Zhang, Yi-Fei He, Hai-Ying Zhu (Sun Yat-Sen University)</i>	TU-PM-I-SS-07-1 EMC aspects of compact wiring for future aircraft (#9673) <i>Jesper Lansink Rotgerink (Netherlands Aerospace Centre), Harmen Schippers (Netherlands Aerospace Centre), Jaco Verpoorte (Netherlands Aerospace Centre), Kees Nuyten (Fokker Elmo)</i>	TU-PM-I-SS-10-1 Risk Management of Electromagnetic Disturbances (#10399) <i>Keith Armstrong (Cherry Clough Consultants Ltd), Davy Pissoort, Andy Degraeve, Jonas Lannoo (KU Leuven, Bruges Campus)</i>
01:50pm	TU-PM-I-TC-10-2 Estimation and Analysis of Crosstalk Effects in High-Bandwidth Memory Channel (#10422) <i>Sumin Choi (KAIST), Heegon Kim (Missouri University of Science and Technology), Junyong Park, Dong-Hyun Kim, Daniel H. Jung, Jaemin Lim, Kyungjun Cho, Joungho Kim (KAIST)</i>	TU-PM-I-SS-07-2 Development of Spacecraft Radiated Susceptibility RS103 Requirements From Modeling Methods (#10360) <i>Pablo Narvaez (Jet Propulsion Laboratory)</i>	TU-PM-I-SS-10-2 Reducing Functional Safety and Other Risks Due to EM Disturbances: IEEE Standard 1848 (#10398) <i>Keith Armstrong (Cherry Clough Consultants Ltd), Davy Pissoort, Andy Degraeve, Jonas Lannoo (KU Leuven, Bruges Campus)</i>
02:10pm	TU-PM-I-TC-10-3 Analysis of Decoupling Capacitors on Power Transmission Lines (#9039) <i>Ihsan Erdin (Celestica Inc.), Ram Achar (Carleton University)</i>	TU-PM-I-SS-07-3 FFT-Based Time Domain Solution to Power Frequency Issue of CS101 Testing for Military and Aerospace Equipment (#9902) <i>Soydan Cakir, Mesut Ozturk, Bahadir Tektas, Osman Sen, Savas Acak (TUBITAK UME), Marc Pous (Universitat Politecnica de Catalunya)</i>	TU-PM-I-SS-10-3 EMI Risk Reduction via Evaluation of the Susceptibility of Medical Devices (#10321) <i>Wuwus Ardiatna (Indonesian Institute of Sciences), Dwi Mandaris (University of Twente), Aditia Nur Bakti (Indonesian Institute of Sciences), Siddiq Wahyu Hidayat (Indonesian Institute of Sciences), Frank Leferink (University of Twente and THALES, Netherlands.)</i>
02:30pm	TU-PM-I-TC-10-4 Extended Underminated Line (EUL) for Accurate and Efficient Crosstalk Measurement (#9084) <i>Xiaoning Ye, Albert Sutono, Varun Gupta (Intel Corporation)</i>	TU-PM-I-SS-07-4 On the Interference of Wired Serial Communication Links by Time Domain Interference (#10353) <i>Michael Basford, Christopher Smartt, Stephen Greedy, Dave Thomas (University of Nottingham)</i>	TU-PM-I-SS-10-4 Study on the Use of Different Transmission Line Termination Strategies to Obtain EMI-Diverse Redundant Systems (#10201) <i>Jonas Lannoo, Andy Degraeve, Dries Vanoost, Jeroen Boydens, Davy Pissoort (KU Leuven, Bruges Campus)</i>

02:50pm	<p>TU-PM-I-TC-10-5 De-embedding Comparisons of 1X-Thru SFD, 1-Port AFR, and 2X-Thru SFD (#9628) <i>Yuan Chen (Missouri University of Science and Technology), Bichen Chen (Missouri University of Science and Technology), Jiayi He (Missouri University of Science and Technology), Richard Zai (PacketMicro. Inc.), Jun Fan (Missouri University of Science and Technology), James Drewniak (Missouri University of Science and Technology)</i></p>	<p>TU-PM-I-SS-07-5 Advanced models for the transfer impedance of metal braids in cable harnesses (#9915) <i>Jaco Verpoorte, Harmen Schippers, Jesper Lansink Rotgerink (Netherlands Aerospace Centre)</i></p>	<p>TU-PM-I-SS-10-5 Effectiveness of Inversion Diversity to Cope with EMI within a Two-Channel Redundant System (#10216) <i>Jonas Lannoo, Andy Degraeve, Dries Vanoost, Jeroen Boydens, Davy Pissoort (KU Leuven, Bruges Campus)</i></p>
03:10pm		<p>TU-PM-I-SS-07-6 Effect of electron density in multipaction on the electromagnetic characteristics of microwave device (#9877) <i>Xinbo Wang (National Key Laboratory of Science and Technology on Space Microwave)</i></p>	<p>TU-PM-I-SS-10-6 Extending the Normal Immunity Tests to Help Prove Functional Safety (#10400) <i>Keith Armstrong (Cherry Clough Consultants Ltd), Bill Radasky (Metatech Corporation)</i></p>

Technical Sessions – Tuesday, May 15, 2018 (PM-I)

Rooms	Room #334	Room #335	Room #336
01:30pm – 03:30pm	TC-09: Computational Electromagnetics Chair(s):	SS-05: Potential EM Tech. for Booming Wiress Comm. Chair(s): Hsi-Tseng Chou and Ding-Bing Lin	TC-05: EM Information Leakage Chair(s): Yuichi Hayashi and William Radasky
01:30pm	TU-PM-I-TC-09-1 Influence of Coupling Coefficient on Transmission and Reflection Zeros of Open-Ended Coupled Ideal Stubs (#8775) Blaise Ravelo (IRSEEM)	TU-PM-I-SS-05-1 Time-Domain Electromagnetic Field Analysis based on Discrete Time Signal Expansion and its Relation to Frequency Domain Banded Signals (#9071) Hsi-Tseng Chou (National Taiwan University)	TU-PM-I-TC-05-1 Fundamental Study on Non-invasive Frequency Injection Attack against RO-based TRNG (#10168) Saki Osuka (Nara Institute of Science and Technology), Daisuke Fujimoto (Nara Institute of Science and Technology), Yuichi Hayashi (Nara Institute of Science and Technology), Naofumi Homma (Tohoku University), Arthur Beckers (imec-COSIC KU Leuven), Josep Balasch (imec-COSIC KU Leuven), Benedikt Gierlichs (imec-COSIC KU Leuven), Ingrid Verbauwhede (imec-COSIC KU Leuven)
01:50pm	TU-PM-I-TC-09-2 Invasive Weed Optimized Planar Elliptical Dipole Antenna for Ultra-Wideband EMC Applications (#9675) Emmanouil Tziris (Brunel University), Pavlos Lazaridis (University of Huddersfield), John Cosmas (Brunel University), Ian Glover, Keyur Mistry (University of Huddersfield), Thomas Xenos (Aristotle University of Thessaloniki)	TU-PM-I-SS-05-2 Mathematic Subarray Decomposition to Compose the Radiation of Electrically Large Phased Array of Antennas with Limited Excitation Power in Measurement (#9267) Shih-Chung Tuan (Oriental Institute of Technology), Hsi-Tseng Chou (National Taiwan University), Hao-Ju Huang, Dun-Yuan Cheng (Yuan Ze University)	TU-PM-I-TC-05-2 Study on the Effect of Clock Rise Time on Fault Occurrence under IEMI (#10287) Naoto Saga (Tohoku University), Takuya Itoh (Tohoku University), Yuichi Hayashi (Nara Institute of Science and Technology), Takaaki Mizuki (Tohoku University), Hideaki Sone (Tohoku University)
02:10pm	TU-PM-I-TC-09-3 Feasibility of Uncertainty Quantification for Power Distribution Network Modeling Using PCE and a Contour Integral Method (#8809) David Dahl, Oemer Faruk Yildiz, Eduard Frick, Christian Seifert, Marko Lindner, Christian Schuster (Hamburg University of Technology)	TU-PM-I-SS-05-3 An Introduction to MIMO Antenna Array Designs for Future 5G Smartphone Applications (#9702) Chow-Yen-Desmond Sim, Chih-Heng Lin, Heng-Yu Liu (Feng Chia University)	TU-PM-I-TC-05-3 Data Injection Attacks Using a Hardware Trojan on a Transmission Line (#10116) Shugo Kaji (Nara Institute of Science and Technology), Masahiro Kinugawa (National Institute of Technology, Sendai College), Daisuke Fujimoto, Yuichi Hayashi (Nara Institute of Science and Technology)
02:30pm	TU-PM-I-TC-09-4 Losses Modelling Based on Domain Wall Processes and Validation Considering Rotational Excitation of Electrical Steel Sheets (#9079) Jingsong Li (Tsinghua University), Qingxin Yang (Hebei University of Technology), Shanming Wang	TU-PM-I-SS-05-4 RFI Suppression and Throughput Improvement of WiFi Performance with Graphene Coating for Converging Mobile Device (#8976) Cheng-Hau Wu (Feng Chia University)	TU-PM-I-TC-05-4 HT-detection method based on impedance measurements of ICs (#10162) Shota Nin, Daisuke Fujimoto, Yuichi Hayashi (Nara Institute of Science and Technology), Noriyuki Miura, Makoto Nagata (Kobe University), Tsutomu Matsumoto (Yokohama National University)

	<i>(Tsinghua University), Yongjian Li (Hebei University of Technology)</i>		
02:50pm	<p>TU-PM-I-TC-09-5 An iterative finite element boundary integral-physical optics method for analyzing shielding effectiveness of a cavity above large platform (#9544) <i>Yang Liu (The Institute of Applied Physics and Computational Mathematics), Yu-Teng Zheng (The Institute of Applied Physics and Computational Mathematics, the CAEP Software Center for High Performance Numerical Simulation), Haijing Zhou (Institute of Applied Physics and Computational Mathematics)</i></p>	<p>TU-PM-I-SS-05-5 A New Uniformity-Enhanced Double Ridged Horn Antenna for Radiated Susceptibility Test from 1 GHz to 18 GHz (#9384) <i>Tsung-Ching Lin (Electronics Testing Center), Chih-Hung Lee (Electronics Testing Center, Taiwan), Jian-Li Dong (Bureau of Standards, Metrology and Inspection), Cheng-Nan Chiu (Yuan Ze University), Ding-bing LIN (National Taiwan University of Science and Technology), Hsin-Piao Lin (National Taipei University of Technology)</i></p>	<p>TU-PM-I-TC-05-5 EM Security Analysis of Compact ECDSA Hardware (#10089) <i>Kosuke Koiwa (Tohoku University), Daisuke Fujimoto, Yuichi Hayashi (Nara Institute of Science and Technology), Makoto Nagata (Kobe University), Makoto Ikeda (University of Tokyo), Tsutomu Matsumoto (Yokohama National University), Naofumi Homma (Tohoku University)</i></p>
03:10pm	<p>TU-PM-I-TC-09-6 Time Domain FEM Computational Approach for Calibration of Surface Scan Method (#9210) <i>Susanne Bauer, Andreas Gleinser, Gergely Koczka, Gunter Winkler, Oszkar Biro, Bernd Deutschmann (Graz University of Technology)</i></p>	<p>TU-PM-I-SS-05-6 E-Band Multi-Layer Full-Corporate-Feed Waveguide Slot Array Antenna (#9341) <i>Derry Permana Yusuf, Hsi-Tseng Chou (National Taiwan University)</i></p>	<p>TU-PM-I-TC-05-6 A Study on an Evaluation Method for EM Information Leakage Utilizing Controlled Image Displaying (#10363) <i>Ryota Birukawa, Yuichi Hayashi, Hideaki Sone (Tohoku University)</i></p>

Technical Sessions – Tuesday, May 15, 2018 (PM-II)

Rooms	Room #331	Room #332	Room #333
04:00pm – 06:00pm	TM-01: IC EMC Chair(s): <i>Fabian Vargas and Sonia Ben Dhia</i>	SS-08: Simulation and Testing for Automotive EMC Chair(s): <i>Sergio Amedeo Pignari</i>	SS-12: EM Shielding Technology for Mobile Devices Chair(s): <i>Hyunho Park, Chulsoon Hwang</i>
04:00pm	TU-PM-II-TM-01-1 Systematic Analysis of ESD-Induced Soft-Failures As A Function of Operating Conditions (#9271) <i>Omid Hoseini Izadi, Ahmad Hosseinbeig, David Pommerenke (Missouri University of Science and Technology.)</i>	TU-PM-II-SS-08-1 Analysis of the Galvanic Coupling of DC-Link Capacitors in a High-Voltage Bus of an Electric Car (#8582) <i>Mathias Magdowski, Ralf Vick (Otto-von-Guericke University), Martin Obholz (VOLKSWAGEN AG)</i>	TU-PM-II-SS-12-1 Effect of Contact Resistance on Conformal Shield Package for Mobile DRAM (#10021) <i>Jungho Jin (Samsung Electronics)</i>
04:20pm	TU-PM-II-TM-01-2 Measurement of the Susceptibility to EMI of ICs with Two-Tone Interference (#9918) <i>Franco Fiori (Politecnico di Torino)</i>	TU-PM-II-SS-08-2 Prediction of Common Mode Current in Cable Harnesses (#9656) <i>Tamar Makharashvili, Daryl Beetner (Missouri University of Science and Technology)</i>	TU-PM-II-SS-12-2 Optimized FPC Design with EMI Film (#9335) <i>Liang-Yu Shih, Hank Lin, Chung-Han Tsai, Bin-Chyi Tseng (ASUSTek Computer Inc.)</i>
04:40pm	TU-PM-II-TM-01-3 Emission Reduction with Spread Spectrum Clocking for Switched Capacitor Buck Converter (#10223) <i>Volha Subotskaya (Infineon Technologies AG), Kyrylo Cherniak (Infineon Technologies AG), Klaus Hoermaier (Infineon Technologies AG), Bernd Deutschmann (Graz University of Technology)</i>	TU-PM-II-SS-08-3 Modeling and Evaluation of Common-mode Interference Coupling Effects on Sensitive Cable in Motor Drive System (#9899) <i>Tao Wang, Kaikai Chen, Zhichao Zheng, Henglin Chen (Zhejiang University)</i>	TU-PM-II-SS-12-3 Embedded Multilayer Interleaved Comb Capacitor for Package-level EMI Protection (#9936) <i>Hai Au Huynh, YoungBong Han (Sungkyunkwan University), Jisoo Hwang, Eunseok Song (Samsung Electronics), SoYoung Kim (Sungkyunkwan University)</i>
05:00pm	TU-PM-II-TM-01-4 Analysis of Conducted-EMI Noise Influence on the Effectiveness of an EDAC Technique to Mitigate Soft Errors in Ionizing Radiation Environment (#10254) <i>Fabian Vargas (Catholic University - PUCRS)</i>	TU-PM-II-SS-08-4 EMC Simulation of Automotive Ethernet Systems (#9319) <i>Matthias Troescher (CST - Computer Simulation Technology GmbH)</i>	TU-PM-II-SS-12-4 Shielding Effectiveness Estimation for Shielding Box Having Unknown Aperture (#9840) <i>Jung-Hwan Hwang (Electronics and Telecommunications Research Institute), Hyun Ho Park (University of Suwon), Sang-il Kwak, Dong-wook Sim, Jong-Hwa Kwon (Electronics and Telecommunications Research Institute)</i>

05:20pm	<p>TU-PM-II-TM-01-5 Modeling the internal activity of a FPGA for conducted emission prediction purpose (#10265) <i>Chaimae Ghfiri (IRT Saint exupery), Alexandre Boyer, Sonia Ben Dhia (LAAS CNRS), Andre Durier (IRT SAINT EXUPERY), Christian Marot (AIRBUS)</i></p>	<p>TU-PM-II-SS-08-5 Analysis of Electromagnetic wave in Automotive Cabin Using Complex Poynting's Theorem (#10215) <i>Shinji Fukui, Noboru Maeda (Soken, Inc.), Fengchao Xiao (University of Electro-Communications), Yoshio Kami (University of Electro-Communications)</i></p>	<p>TU-PM-II-SS-12-5 Fast evaluation of low frequency near field magnetic shielding effectiveness (#9763) <i>Fethi Benyoubi (IREENA), Lionel Pichon (GeePs), Mohamed Bensetti (GeePs), Yann Le Bihan (GeePs), Mouloud Feliachi (IREENA)</i></p>
05:40pm	<p>TU-PM-II-TM-01-6 Fault state behaviour of Smart Power devices during electromagnetic interference (#10341) <i>Bernd Deutschmann, Paul Kastner, Gunter Winkler (Graz University of Technology)</i></p>	<p>TU-PM-II-SS-08-6 Dynamic EMI Characteristic Analysis of Vehicle Electric-drive System operated in Multi-operation Conditions (#9337) <i>Ying Xiong (China North Vehicle Research Institute)</i></p>	

Technical Sessions – Tuesday, May 15, 2018 (PM-II)

Rooms	Room #334	Room #335	Room #336
04:00pm – 06:00pm	TC-04: EMI Control Methods <i>Chair(s): John G. Kraemer</i>	SS-05: Potential EM Tech. for Booming Wireless Comm. <i>Chair(s): Hsi-Tseng Chou and Ding-Bing Lin</i>	TC-05: Lightning and System Protection <i>Chair(s): Yoshihiro Baba and W. H. Siew</i>
04:00pm	TU-PM-II-TC-04-1 Electromagnetic resonance analysis of a shielding enclosure with apertures excited by a plane wave (#9193) <i>Bao-Lin Nie, Pei Xiao, Ping- An Du (University of Electronic Science and Technology of China)</i>	TU-PM-II-SS-05-1 Beam Switching Antenna for Small Cell Applications (#9696) <i>Chia-Lun Tang, Shih-Chi Lai, Gary Chiou (Auden Techno Corp.)</i>	TU-PM-II-TC-05-1 LMA Observation of Upward Flashes at Santis Tower: Preliminary Results (#9529) <i>Amirhossein Mostajabi (The Swiss Federal Institute of Technology), Nicolau Pienda (Meteorological Service of Catalonia), David Romero (Technical University of Catalonia), Mohammad Azadifar (The Swiss Federal Institute of Technology), Oscar Van der Velde (The Swiss Federal Institute of Technology),, Joan Montanya (Technical University of Catalonia), Marcos Rubinstein (Institute for Information and Communications Technologies), Farhad Rachidi (The Swiss Federal Institute of Technology)</i>
04:20pm	TU-PM-II-TC-04-2 Shielding Effectiveness Prediction of Metallic Structures with Thin Slots Using FDTD (#8969) <i>Liping Yan, Mingjiang Fang, Xiang Zhao (Sichuan University), Qiang Liu, Haijing Zhou (Institute of Applied Physics and Computation Mathematics)</i>	TU-PM-II-SS-05-2 Fast Conical-Cut Radiation Measurement by Using Lens Fed Reflector for 5G Antenna Application at mmW Frequencies (#9771) <i>YuHsi Tsai (Training Research Co.,Ltd.), Hairui Liu (China Academy of Information and Communications Technology), YueiTing Tsai (Training Research Co.,Ltd.)</i>	TU-PM-II-TC-05-2 Modeling of Different Charge Transfer Modes in Upward Flashes Constrained by Simultaneously Measured Currents and Fields (#9421) <i>Lixia He (Swiss Federal Institute of Technology), Mohammad Azadifar (Swiss Federal Institute of Technology), Quanxin Li (Wuhan University), Marcos Rubinstein (Institute for Information and Communications Technologie), Vladimir Rakov (University of Florida), Arturo Mediano (University of Zaragoza), Davide Pavanello (University of Applied Sciences of Western Switzerland), Mario Paolone (Swiss Federal Institute of Technology), Hongyan Xing, (Jiangsu Key Laboratory of Meteorological Observation and Information Processing), Farhad Rachidi (The Swiss Federal Institute of Technology)</i>
04:40pm	TU-PM-II-TC-04-3 Effect of Conducting Surfaces on the Performance of Common Mode Chokes (#9479) <i>Carlos Dominguez-Palacios, Pablo Gonzalez-Vizuete, Joaquin Bernal Mendez (Universidad de Sevilla)</i>	TU-PM-II-SS-05-3 Dual-band patch antenna array for WLAN applications (#9862) <i>I-Fong Chen, Chia-Mei Peng (Jinwen University of Science and Technology)</i>	TU-PM-II-TC-05-3 Modeling of LEMP Propagation in the Lossy Atmosphere (#8678) <i>Thang H. Tran (National Institute of Technology, Tsuruoka College), Yoshihiro Baba (Doshisha University), Vijaya Somu (University of Florida), Vladimir A. Rakov (University of Florida)</i>

05:00pm	<p>TU-PM-II-TC-04-4 A joint method of EMT and DEMATEL in analyzing HEMP coupling effect of phased array radar antenna system (#9482) <i>Shenshen Luan, Shuguo Xie (Beihang University), Wei Yan (Beijing Institute of Radio Measurement), Ziyao Chen (Beihang University)</i></p>	<p>TU-PM-II-SS-05-4 Multiple OAM Modes generated by patch antenna (#10085) <i>Dandan Liu, Liangqi Gui, Han Chen, Zixiao Zhang, Tao Jiang (Huazhong University of Science and Technology)</i></p>	<p>TU-PM-II-TC-05-4 FDTD Computation of Lightning Currents in a Multilayer CFRP Panel with a Conductivity Matrix Approach (#9056) <i>Koki Ueno (Doshisha University)</i></p>
05:20pm	<p>TU-PM-II-TC-04-5 Frequency dependent capacitance of metal semiconductor metal varactor diode and its tunable filter application (#10004) <i>Chien-Fu Shih (Chang Gung University)</i></p>	<p>TU-PM-II-SS-05-5 Design of Balanced Wideband Filtering Circularly Polarized Antenna Using Quasi-Self-Complementary Structure (#9897) <i>Pei-Shan Ho, Ching-Her Lee, Dau-Ming Wu, Hsun-Hsiang Chen (National Changhua University of Education), Chung-I Hsu (Yunlin University of Science and Technology)</i></p>	<p>TU-PM-II-TC-05-5 Grounding Strategies for Solar PV Panels (#10226) <i>Ahmad Ayub, WH Siew (University of Strathclyde), Faisal Peer Mohamed (Military Technological College)</i></p>
05:40pm	<p>TU-PM-II-TC-04-6 Simulation Analysis on the Capacity Occupancy of Reactive Power Equipment Under DC Biasing of Transformers (#9088) <i>Zhicheng Xie, Hai Qian, Jun Deng, Jinwei Chu, Zhiliang Lu, Xiaoxing Wei, Chao Zhang (Extra-High Voltage Transmission Company of China Southern Power Grid)</i></p>	<p>TU-PM-II-SS-05-6 Modularized Prototype of 5G mmWave Base Station System at 38 GHz (#9912) <i>Li-Hsin Yen, Yang-Chih Huang (National Taiwan University), Ssu-Hao Su, Che-Yao Fan, Fang-Hsien Chu (ASUSTek Computer Inc.), Fang-Yao Kuo (Industrial Technology Research Institute), Hsin-Chia Lu, Shau-Gang Mao, Kun-You Lin (National Taiwan University), Jackson Yen (ASUSTek Computer Inc.), Tzong-Lin Wu (National Taiwan University)</i></p>	<p>TU-PM-II-TC-05-6 Some Examples of EMI/EMC in Wind Power Systems and Large Solar Parks (#10356) <i>Ener Salinas (ABB Corporate Research)</i></p>

Technical Sessions – Wednesday, May 16, 2018 (AM-I)

Rooms	Room #331	Room #332	Room #333
08:30am – 10:10am	TC-10: SI/PI <i>Chair(s):</i>	TC-06: Spectrum <i>Chair(s): Jin Meng</i>	TC-09: CEM and EMI <i>Chair(s):</i>
08:30am	WE-AM-I-TC-10-1 Characterization and Verification of Gigabit Ethernet-based Bus Systems in Vehicles (#9596) <i>Sanaz Mortazavi, Detlef Schleicher (Volkswagen AG), Friedel Gerfers (Technical University of Berlin)</i>	WE-AM-I-TC-06-1 A Spectral Fitting Method for Designing Spectrum Compatibility Sequence with Low Correlation Sidelobes (#8923) <i>Hao Wu, Jin Meng, Qing Wang, Jin ling Xing, Liang Zhou (National Key Laboratory of Science and Technology on Vessel Integrated Power System, Naval University of Engineering)</i>	WE-AM-I-TC-09-1 Efficient Modeling of Multi-Coil Wireless Power Transfer Systems using Combination of Full-Wave Simulation and Equivalent Circuit Modeling (#8664) <i>Peiyu Liang (Beihang University), Heinz-D. Brüns (Hamburg University of Technology), Qi Wu (Beihang University), Christian Schuster (Hamburg University of Technology)</i>
08:50am	WE-AM-I-TC-10-2 Noise Isolation of PDN Using In-Package Filter in LTCC-Based System-in-Package (SiP) (#9008) <i>Yue-Hui Huang, Mu-Shui Zhang, Yi-Fei He, Quan-Chao Su (Sun Yat-sen University)</i>	WE-AM-I-TC-06-2 RRUs and RF Combining Circuit Sharing Solution for Sites with Space Constraint (#9295) <i>Suzi Seroja (MARA University of Technology)</i>	WE-AM-I-TC-09-2 An Optimized GPU Accelerated Pre-Conditioned Biconjugate Gradient Stabilized Method to Speedup the Scalar Potential Finite-Difference Method (#9568) <i>Tongning Wu, Chen Zhang, Congsheng Li (China Academy of Information and Communications Technology)</i>
09:10am	WE-AM-I-TC-10-3 EMI Shielding Film Modeling Study for High-Speed Interconnect in Flexible Printed Circuit Board (#9799) <i>Hanfeng Wang, Ken Wu, Tony Lin (Google Inc.)</i>	WE-AM-I-TC-06-3 Adaptive Spatial Filtering for Interference Cancellation between Co-site Phased Arrays (#8955) <i>Qing Wang, Fangmin He, Hongbo Liu, Kui Zhao, Jin Meng (National Key Laboratory of Science and Technology on Vessel Integrated Power System, Naval University of Engineering)</i>	WE-AM-I-TC-09-3 Electromagnetic-Thermal Simulation of Lorentz Media by the DGTD Method (#9607) <i>Yilin Dong, Min Tang (Shanghai Jiao Tong University), Ping Li (The University of Hong Kong), Junfa Mao (Shanghai Jiao Tong University)</i>
09:30am	WE-AM-I-TC-10-4 Analysis and Experimental Validation of Power Distribution Network with Multi-slots Parallel-Plane Structure (#9187) <i>Yan Li, ZhiYi Gao (Hebei University of Technology)</i>	WE-AM-I-TC-06-4 Analysis of quantification effects on digital-analog mixed adaptive interference cancellation system (#9048) <i>Jinling Xing, Meng Jin, Songhu Ge (Naval University of Engineering)</i>	WE-AM-I-TC-09-4 An Improved Multi-level Weighting Additive Summation Method for Electromagnetic Compatibility Evaluation (#10084) <i>Yumei Wang, Wentao Xu (China ship development and design center)</i>
09:50am	WE-AM-I-TC-10-5 Time domain analysis for common mode noise reduction using meander line structure (#9644) <i>Jaehyuk Lim, Seungjin Lee, Jaehoon Lee (Korea university), Yonghoon Kim, Dan Oh (Samsung Electronics, Inc.)</i>	WE-AM-I-TC-06-5 An Improved Foster Model of Common-Mode Inductor and its Application in EMI Filter Design (#9212) <i>Haoqi Zhu (HangZhou Dianzi University), Dongliang Liu (HangZhou Dianzi University), Hao Chen (Zhejiang University), Guozhu Chen (Zhejiang University)</i>	WE-AM-I-TC-09-5 A Novel Inverse Method for Autonomous UAV Line Patrolling with Magnetic Sensors (#9510) <i>Feng Gao, Sen Wang (Shaanxi Electric Power Research Institute), Yang Wu, Gen Zhao, Bo Wang, Jun Hu (Tsinghua University)</i>

Technical Sessions – Wednesday, May 16, 2018 (AM-I)

Rooms	Room #334	Room #335	Room #336
08:30am – 10:10am	TC-09: Computational Electromagnetics Chair(s):	SS-04: Emerging Tech. & EMC Chair(s):	SS-13: EMC Issues Related to Common-mode Noise Chair(s): Yoshitaka Toyota
08:30am	WE-AM-I-TC-09-1 Some Analytical Formulas for the Directivity Calculation of Antenna Arrays (#9963) Haim Matzner (HIT-Holon Institute of Technology)	WE-AM-I-SS-04-1 Status of IEMI Activities at the End of 2017 (#10381) Bill Radasky (Metatech Corporation)	WE-AM-I-SS-13-1 Modal Analysis of Reflection of TDR in Overhead Distribution Lines (#9773) Tohlu Matsushima, Takashi Hisakado, Osami Wada (Kyoto University), Shimpei Oe (Kansai Electric Power Co. Inc.)
08:50am	WE-AM-I-TC-09-2 Time-Domain Coupling Analysis of Unequal Length MTLs Excited By Plane Wave (#10026) Qiang Liu (Institute of Applied Physics and Computation Mathematics), Zhihong Ye (Chongqing University of Posts and Telecommunications)	WE-AM-I-SS-04-2 The Interconnected Wireless World, a Major Challenge for EM-Coexistence (#10174) Frank Leferink (University of Twente and THALES, Netherlands)	WE-AM-I-SS-13-2 Mode Analysis of Adjacent Differential-Paired lines Using Extended Mixed-Mode S-Parameters (#10227) Wansoo Nah, Nan Zhang (Sungkyunkwan University)
09:10am	WE-AM-I-TC-09-3 Prediction of Radiated Emission Pattern for the Device Under Test (#9166) Sreenivasulu Reddy Vedicherla (Robert Bosch Engineering and Business Solutions Private Limited), Peter Kralicek (Robert Bosch GmbH)	WE-AM-I-SS-04-3 Non-Ionizing EMF Hazard in the 21th Century (#10101) Wee Jin Koh, Shabbir Moochhala (DSO National Laboratories)	WE-AM-I-SS-13-3 Measurement Precision Improvement to Estimate the Immunity Performance for In-vehicle EthreNet (#10002) Miyuki Mizoguchi (SOKEN, INC.), Hiroyuki Mori (SOKEN, INC.), Youhei Sekiya (SOKEN, INC.), Noboru Maeda (SOKEN, INC.), Kaoru Yoshida (Toyota Motor Corporation), Yoshiroh Hirata (Toyota Motor Corporation), Takashi Yasuda (Toyota Motor Corporation), Hideki Goto (Toyota Motor Corporation)
09:30am	WE-AM-I-TC-09-4 A Novel Line Position Recognition Method in Transmission Line Patrolling with UAV Using Machine Learning Algorithms (#9562) Yang Wu (Tsinghua University)	WE-AM-I-SS-04-4 EMC Design with Embedded Metamaterial Technology (#9667) Richard Xian-Ke Gao (Institute of High Performance Computing, A*STAR), Si-Ping Gao (National University of Singapore), Hui Min Lee (Institute of High Performance Computing, A*STAR), Wanlan Yang (Singapore University of Technology and Design)	WE-AM-I-SS-13-4 A Study on Design of Differential-Paired Lines with Meander Delay Line by Preference Set-based Design Method (#10273) Yoshiki Kayano, Yoshio Kami, Haruo Ishikawa, Fengchao Xiao, Hiroshi Inoue (University of Electro-Communications)

09:50am	WE-AM-I-TC-09-5 3D Modelling and Analysis of Parasitic Couplings between Surface-Mount Components of EMI Filters (#9630) <i>Aivis Asmanis, Deniss Stepins, Gundars Asmanis, Leonids Ribickis (Riga Technical University)</i>	WE-AM-I-SS-04-5 Probability Statistical Method of Assisting Electromagnetic Compatibility Index Decision-making (#10088) <i>Yumei Wang, Wentao Xu (China ship development and design center)</i>	WE-AM-I-SS-13-5 Fast and Accurate Yield Rate Prediction of PCB Embedded Common-Mode Filter with Artificial Neural Network (#9103) <i>Yi-Ting Lin, Chi-Hsuan Cheng, Tzong-Lin Wu (National Taiwan University)</i>
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Technical Sessions – Wednesday, May 16, 2018 (AM-II)

Rooms	Room #331	Room #332	Room #333
10:30am – 12:30pm	TC-10: SI/PI <i>Chair(s):</i>	TM-03: WPT <i>Chair(s):</i>	TC-02: EMC Measurement <i>Chair(s):</i>
10:30am	WE-AM-II-TC-10-1 Rapid Electro-Thermal Modeling for 3D Integration Using Circuit Simulation Techniques (#10179) <i>Jose Schutt-Aine, Gene Shiue (University of Illinois)</i>	WE-AM-II-TM-03-1 Magnetic Field Distribution of Resonance Coupling Coils of Wireless Charging System for EV (#9400) <i>Yu Cao (Beijing Institute of Technology), Li Zhai (Beijing Institute of Technology), Liwen Lin (Beijing Institute of Technology), Tao Zhang (Beijing Institute of Technology)</i>	WE-AM-II-TC-02-1 Influence of Test Table Materials on Radiated Immunity Test : Report on Investigation Using a Giant Anechoic Chamber (#9217) <i>Hiro Shida (Tokin EMC Engineering Co., Ltd.), Osami Wada (Kyoto University), Yoshitsugu Okuda (KEC Electronic Industry Development Center), Hisashi Ninomiya (Roland Corporation), Yasushi Asaji (Murata Manufacturing Co., Ltd.), Masahiro Inoue (KEC Electronic Industry Development Center)</i>
10:50am	WE-AM-II-TC-10-2 Quantification of EMI for Power-Ground Plane and Novel EBG Structure for SSN Suppression (#9263) <i>Panpan Zuo, Yan Li, Yanbo Xu, Hongxing Zheng (Hebei University of Technology), Er-Ping Li (Zhejiang University)</i>	WE-AM-II-TM-03-2 Improved Efficiency Characteristics of Wireless Power Charging System for Superconducting MAGLEV Train Using Inserted Permanent Magnets (#10049) <i>Yoon Do Chung (Suwon Science college)</i>	WE-AM-II-TC-02-2 Electromagnetic Field Coupling to Planar and Triangular Multiconductor Transmission Lines in a Reverberation Chamber (#9135) <i>Johanna Kasper, Mathias Magdowski (Otto-von-Guericke-University), Rushan Amanov, Marat Gimranov, Andrey Ferenets (Kazan National Research Technical University named after A. N. Tupolev - KAI), Ralf Vick (Otto-von-Guericke-University)</i>
11:10am	WE-AM-II-TC-10-3 Floorplanning for 3D-IC with Through-Silicon Via Co-Design Using Simulated Annealing (#9127) <i>Hai-Ying Zhu, Mu-Shui Zhang, Yi-Fei He, Yue-Hui Huang (Sun Yat-Sen University)</i>	WE-AM-II-TM-03-3 Dual-Mode RFID Tag Antenna on Flexible Silk (#10171) <i>Xiaoyang Yin, Si-Ping Gao, Yongxin Guo (National University of Singapore)</i>	WE-AM-II-TC-02-3 A Study on Characteristics of 10 MHz to 30 MHz in CISPR 25 ALSE Method (#9146) <i>Takanori Uno (Denso Emc Engineering Service Corporation), Koji Maeda (Aisin Seiki Co., Ltd.), Toshiyasu Tanaka (Microwave Factory Co., Ltd.), Yoshitsugu Okuda (KEC Electronic Industry Development Center), Osami Wada (Kyoto University, Dept. of Electrical Eng.)</i>
11:30am	WE-AM-II-TC-10-4 1 to 4 Way Wideband Power Divider using Substrate Integrated Waveguide and Modified Wilkinson Structures (#9578) <i>Corporation) Vignesh Shanmugam Bhaskar, Eng Leong Tan, Li King Ho Holden, Tse Man Siu (Nanyang Technological University)</i>	WE-AM-II-TM-03-4 Single Metal Path Power Transfer Technology without Return Path at 13.56MHz ISM Band (#10102) <i>Bonyoung Lee, Franklin Bien, Woojin Park, Seongkyu Song (Ulsan National Institute of Science and Technology)</i>	WE-AM-II-TC-02-4 Simultaneous Multi-probe Measurements for Rapid Evaluation of Reverberation Chambers (#9599) <i>Dwi Mandaris (University of Twente), Robert Vogt-Ardatjew (University of Twente), Eike Suthau (Lumiloop), Frank Leferink (University of Twente and THALES, Netherlands)</i>

11:50am	<p>WE-AM-II-TC-10-5 Scalable Platform Power Integrity Design Approach with Standard PI Model (SPIM) and Unified PI Target (UPIT) (#9953) <i>Kinger Cai, Jimmy Hsiao, Chi-te Chen, Yun Ling, Steven Ji, Denis Chen (Intel Corporation)</i></p>	<p>WE-AM-II-TM-03-5 A dual band Implantable Antenna for Biomedical Applications (#10106) <i>Xuefang Zhang (Xidian University)</i></p>	<p>WE-AM-II-TC-02-5 Problems with Stirred Immunity Measurements in a Reverberation Chamber--Corrections to DO-160G Section 20.6 (#9227) <i>John Ladbury (NIST)</i></p>
12:10pm	<p>WE-AM-II-TC-10-6 Modeling and Measurement of A Common-Mode Filter Based on The 3-D Transmission Line Structure (#10288) <i>Yong-Sheng Li, Er-Ping Li (Zhejiang University), Madhavan Swaminathan (Georgia Tech)</i></p>	<p>WE-AM-II-TM-03-6 Simulation-based Conducted Susceptibility Testing for Wireless Power Transfer(WPT) Systems (#10283) <i>Junho Joo, Eakhwan Song (Kwangwoon University), Jonghwa Kwon, Sang il Kwak (Electronics and Telecommunications Research Institute)</i></p>	<p>WE-AM-II-TC-02-6 Immunity tests in a Reverberation Chamber using a Correction factor (#9975) <i>Sang il Kwak, Jung-Hwan Hwang, Dong-uk Sim, Jong-Hwa Kwon (Electronics and Telecommunications Research Institute)</i></p>

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Rooms	Room #331	Room #332	Room #333
01:30pm – 03:30pm	<p>TM-01: IC EMC Chair(s): <i>Bernd Deutchmann and Sonia Ben Dhia</i></p>	<p>SC-07: Aeronautics and Space EMC Chair(s): <i>Narvaez Pablo and Peter S. W. Leung</i></p>	<p>SS-09: Hardware Security for IoT Devices Chair(s): <i>William A. Radasky, Yuichi Hayashi</i></p>
01:30pm	<p>WE-PM-I-TM-01-1 Conducted immunity of Bandgap in SOI technology after electrical stress aging (#10276) <i>Jianfei Wu (National University of Defense Technology), Binhong LI (Institute of Microelectronics of Chinese Academy of Sciences), Hongli Zhang (Tianjin Binhai Civil-military Integrated Innovation Institute), Hongyi Wang (National University of Defense Technology), Liming Zheng (National University of Defense Technology)</i></p>	<p>WE-PM-I-SC-07-1 Investigation on Susceptibility of UAV to Radiated IEMI (#9172) <i>Yazhou Chen, Dongxiao Zhang, Erwei Cheng, Xiaojia Wang (Shijiazhuang Mechanical Engineering College)</i></p>	<p>WE-PM-I-SS-09-1 On the Evaluation of Electromagnetic Information Leakage from Mobile Device Screens (#10192) <i>Ville Yli-Mayry, Daisuke Miyata, Naofumi Homma (Tohoku University), Yuichi Hayashi (Nara Institute of Science and Technology), Takafumi Aoki (Tohoku University)</i></p>
01:50pm	<p>WE-PM-I-TM-01-2 ICIM-CPI : Integrated circuits immunity model : Conducted pulse immunity : description, extraction and example (#10280) <i>Andre Durier (Irt Saint Exupery), Priscila Fernandez-Lopez (Valeo), Jean Luc Levant (Microchip), Christian Marot (Airbus)</i></p>	<p>WE-PM-I-SC-07-2 Enforcing Correlation Between Conducted and Radiated Susceptibility Test Setups for Aerospace Involving Shielded Cables (#9563) <i>Giordano Spadacini, Ludovico Badini, Flavia Grassi, Sergio Pignari (Politecnico di Milano), Alexandre Piche (Airbus Defence & Space – Space Systems)</i></p>	<p>WE-PM-I-SS-09-2Information leakage and recovery from multiple LCDs (#10197) <i>Dong Hoon Choi (Dept. Electrical and Electronic Engineering Yonsei University)</i></p>
02:10pm	<p>WE-PM-I-TM-01-3 Immunity Analysis of an LDO using Identification of Operating Region Transitions (#10297) <i>Lammert Duipmans (Eindhoven University of Technology), Dusan Milosevic (Eindhoven University of Technology), Arnoud van der Wel, Ravi Karadi (NXP Semiconductors), Peter Baltus (Eindhoven University of Technology)</i></p>	<p>WE-PM-I-SC-07-3 Analysis of Signal Environment on 1030/1090MHz Aeronautical Surveillance Systems (#10098) <i>Takuya Otsuyama, Junichi Honda, Junichi Naganawa, Hiromi Miyazaki (Electronic Navigation Research Institute)</i></p>	<p>WE-PM-I-SS-09-3 A Possible Information Leakage From DVI Cable for Color Display (#10196) <i>Ho Seong Lee, Jong-Gwan Yook (Yonsei University)</i></p>
02:30pm	<p>WE-PM-I-TM-01-4 The Shielding Effect of a Multi-Cable Harness as Function of IC Output Termination Impedance (#10349) <i>Herbert Hackl (NXP Semiconductors Austria), Bernd Deutchmann (Graz University of Technology),</i></p>	<p>WE-PM-I-SC-07-4 Electromagnetic Environment Threat Level Requirement for Military Aircraft Susceptibility Testing In Support of High Intensity Radiated Field Qualification (#9345) <i>Gordon Slack (QinetiQ)</i></p>	<p>WE-PM-I-SS-09-4 Study on Range of Information Leakage from IoT Devices with Hardware Trojans (#10342) <i>Masahiro Kinugawa (National Institute of Technology, Sendai College), Yuichi Hayashi (Nara Institute of Science and Technology)</i></p>

	<i>Bernhard Auinger (Graz University of Technology), Anna Gheonjian (EMCoS Ltd.)</i>	
02:50pm	WE-PM-I-TM-01-5 Partial and Indirect Non-reciprocal S-parameter Measurement for (m+n)-Port Fixture with DUT (#10357) <i>Yuya Kojima, Toshikazu Sekine, Yasuhiro Takahashi (Gifu University), Noboru Maeda, Shinji Fukui (Soken, Inc.), Yasuyuki Ishikawa (Denso Corporation)</i>	WE-PM-I-SS-09-5 The Calculation of Quantum Radar Scattering Characteristic for the 3D Circular Cone Target (#8761) <i>Chonghua Fang (The University of Houston)</i>
03:10pm		

Technical Sessions – Wednesday, May 16, 2018 (PM-I)

Rooms	Room #334	Room #335	Room #336
01:30pm – 03:30pm	TC-04: EMI <i>Chair(s): Ding-Bing Lin and Jin Meng</i>	TC-12: EMC for Emerging Wireless Tech. <i>Chair(s):</i>	SS-01: EMC for Wind Farms and Solar PV Plants <i>Chair(s): WH Siew and Ener Salinas</i>
01:30pm	WE-PM-I-TC-04-1 Analytical description of contacting concepts for shielding enclosures (#8691) <i>Michael Kuehn, Marcel Messer (AUDI AG)</i>	WE-PM-I-TC-12-1 Susceptibility of 2.4GHz Low-Power Receivers to Low Frequency EMI (#9485) <i>Marco Brignone Aimonetto, Franco Fiori (Politecnico di Torino)</i>	WE-PM-I-SS-01-1 Loss of Equipotential During Lightning Ground Potential Rise on Large Earthing Systems (#10346) <i>Pieter H Pretorius (Terratech, South Africa)</i>
01:50pm	WE-PM-I-TC-04-2 Identification of Electromagnetic Interferences Based on Adaptive Sparsest Time - Frequency Analysis (#8926) <i>Peng Li, Zhongyuan Zhou, Mingjie Sheng (Southeast University)</i>	WE-PM-I-TC-12-2 Millimeter-wave Propagation Measurement During Rainy Days in Beijing (#9694) <i>Congzheng Han, Yongheng Bi, Shu Duan (Institute of Atmospheric Physics, Chinese Academy of Sciences)</i>	WE-PM-I-SS-01-2 Conducted and Radiated Interference on the interconnections of Renewable Energy Farms (#10042) <i>Patricio E. Munhoz-Rojas (Institutos Lactec)</i>
02:10pm	WE-PM-I-TC-04-3 A Multi-tone Interference Equivalence Method for Analyzing the Impact of LFM Interference on the BER of Communications Data Link System (#8962) <i>Kui Zhao, Fangmin He, Hongbo Liu, Qing Wang, Jin Meng, Lei Zhang (Naval University of Engineering)</i>	WE-PM-I-TC-12-3 A Novel Stochastic Integral Equation Method for MIMO Communication in Diffuse Multipath Environments (#10380) <i>Zhen Peng, Shen Lin (University of New Mexico)</i>	WE-PM-I-SS-01-3 Lightning Protection and EMC issues of Renewable Energy Sources (#10191) <i>Toshihisa Funabashi (Nagoya University), Kazuo Yamamoto (Chubu University), Shozo Sekioka (Shonan Institute of Technology)</i>
02:30pm	WE-PM-I-TC-04-4 A Novel Heatsink with Mushroom-type EBG Structure for EMI Radiation Suppression (#9317) <i>Hang Jin, Le Zhang, Xiaoli Yang, Ping Cheng, Er-Ping Li (Zhejiang University), Yaojiang Zhang (Huawei)</i>	WE-PM-I-TC-12-4 Some Phase-Shifterless Scanning Array Antennas (#10055) <i>Haim Matzner (HIT-Holon Institute of Technology)</i>	WE-PM-I-SS-01-4 Immunity of Solar Inverters to Transient Waveforms (#10373) <i>William A. Radasky (Metatech Corporation), Edward Savage (Metatech Corporation)</i>

02:50pm	<p>WE-PM-I-TC-04-5 Resonator Approach for Simple Calculation of Total Microwave Energy Accumulated Inside the Shielding Box (#9082) <i>Pavel Kundyshev, Valentin Butin (Dukhov Research Institute of Automatics)</i></p>	<p>WE-PM-I-TC-12-5 A 60 GHz Incabin Wireless Transmitting System with Interference Mitigation (#9864) <i>Wei-Jiang Zhao (Institute of High Performance Computing (IHPC), A*STAR)</i></p>	<p>WE-PM-I-SS-01-5 Behaviour of Surge Protective Devices Under Lightning Ground Potential Rise (#10339) <i>Pieter H Pretorius (Terratech, South Africa)</i></p>
03:10pm	<p>WE-PM-I-TC-04-6 EMI Prediction of Packages by Deep Neural Network (#10193) <i>Hang Jin, Hanzhi Ma, Er-Ping Li (Zhejiang University)</i></p>	<p>WE-PM-I-TC-12-6 Low Cost Base-band Digitizer for Fast EUT Magnetic Emission Test (#10176) <i>Iwan Setiawan (University of Twente), Robert Vogt-Ardatjew (University of Twente), Frank Leferink (University of Twente and THALES, Netherlands)</i></p>	<p>WE-PM-I-SS-01-6 Harmonics Induced by Inverters from a Photovoltaic Plant in the Power Grid (#10354) <i>Petre-Marian Nicolae, Radu - Florin Marinescu, Marian-Stefan Nicolae, Maria - Cristina Marinescu, Ileana - Diana Nicolae (University of Craiova)</i></p>

Technical Sessions – Wednesday, May 16, 2018 (PM-II)

Rooms	Room #331	Room #332	Room #333
04:00pm – 05:20pm	TM-05: Biomedical Electromagnetic <i>Chair(s): Shaoying Huang and Eisuke Hanada</i>	SS-08: Simulation and Testing for Automotive EMC <i>Chair(s): Sergio Amedeo Pignari</i>	SS-11: Advance Measurement Tech. for 5G <i>Chair(s):</i>
04:00pm	WE-PM-II-TM-05-1 Parametric study of Impact of Static Magnetic Field on Human Cell Viability (#9579) <i>Weinong Sun, Yaqing He, Yinliang Diao, Peter Sai-Wing Leung, Timothy Yun-Ming Siu, Yuen-Chong Kong (City University of Hong Kong)</i>	WE-PM-II-SS-08-1 Estimation for S-parameters of an Differential Communication Transceiver IC Applying an Indirect Measurement Method (#10249) <i>Noboru Maeda, Miyuki Mizoguchi, Hiroyuki Mori (Soken, Inc.), Takashi Yasuda, Hideki Goto (Toyota Motor Corporation)</i>	WE-PM-II-SS-11-1 Measured MIMO Throughput Under Different Transmit Power of DUT (#10255) <i>Jun Li (Generaltest System, Hunan University)</i>
04:20pm	WE-PM-II-TM-05-2 In-vitro Measurement System for Induced Voltages in Medical Implants in Magnetic Resonance Imaging (#10467) <i>Sven Kuehn (ISchmid&Partner Engineering AG (SPEAG))</i>	WE-PM-II-SS-08-2 Current Distribution in Shielded Cable-Connector Systems for Power Transmission in Electric Vehicles (#10352) <i>Stephan Frei, Katharina Hermes, Abid Mushtaq, Robert Nowak (TU Dortmund University)</i>	WE-PM-II-SS-11-2 Novel OTA Evaluation for WLAN MIMO UE based on Improved Radiated Two-stage Method (#10317) <i>Qianwen Chen (Hunan University)</i>
04:40pm	WE-PM-II-TM-05-3 Electromagnetic Interference Evaluation at Myoelectric Signal Detector for Robot Control (#9949) <i>Wei Liao (Shanghai University of Engineering Science), Jianqing Wang (Nagoya Institute of Technology)</i>	WE-PM-II-SS-08-3 Bulk Current Injection Quantification of BroadR-Reach Protocol Based System by Measurements and Modeling (#10331) <i>Waldemar Schulz (TU Dortmund), Nicola Toscani, Flavia Grassi (Politecnico di Milano), Patrick DeRoy (CST of America, LLC), Ryan Frost, Cyrus Rostamzadeh (Bosch)</i>	WE-PM-II-SS-11-3 Probe Calibrations for Phased Array Measurement (#10320) <i>Jiyu Wu (Hunan University), Yihong Qi (General Test Systems Inc.), Francesco de Pauli, Antonio Orlandi (University of L'Aquila)</i>
05:00pm	WE-PM-II-TM-05-4 Numerical Calculations of Body Temperature during Thermal Treatment by Capacitive Heating Device (#9992) <i>Kazuyuki Saito, Norihiro Tsukamoto (Chiba University)</i>		WE-PM-II-SS-11-4 Recent Progress of Radiated Two Stage Method for MIMO OTA Measurement (#10365) <i>Penghui Shen (General Test Systems Inc.)</i>

Technical Sessions – Wednesday, May 16, 2018 (PM-II)

Rooms	Room #334	Room #335	Room #336
04:00pm – 05:20pm	TC-09: Computational Electromagnetics Chair(s):	TC-11: Nano & Advanced Materials Chair(s): Sungtek Kahng and Tamburrano	TC-05: IEMI and Transients Chair(s): William Radasky and Yanzhao Xie
04:00pm	WE-PM-II-TC-09-1 Efficient Electromagnetic Simulation of PCB with SPICE elements by Using HIE-FDTD method (#9306) Yuta Inoue, Asai Hideki (Shizoka Univ.)	WE-PM-II-TC-11-1 Small Left-handed Balun designed to Increase MIMO Antenna Isolation for AP Systems (#9070) Changhyeong Lee, Dajung Han, Heejun Park, Muhammad Salman Khattak, Abdul Rehman Khan, Sungtek Kahng (Incheon National University)	WE-PM-II-TC-05-1 Performance Improvement for Sub-nanosecond Marx Generator Based on Avalanche Transistors by Considering the Traveling Wave Process (#9575) Mingxiang Gao, Yanzhao Xie, Yangxin Qiu, Yahan Hu, Kejie Li (Xi'an Jiaotong University)
04:20pm	WE-PM-II-TC-09-2 Modeling of EMP Coupling to Lossless MTLs in Time Domain Based on Analytical Gauss-Seidel Iteration Technique (#9597) Jun Guo, Xie Yan-zhao (Xi'an Jiaotong University), Farhad Rachidi (The Swiss Federal Institute of Technology)	WE-PM-II-TC-11-2 Smart Metasurface with Non-reciprocity for Fog Layer in IoT Environment (#9104) Toshiro Kodera (Meisei University)	WE-PM-II-TC-05-2 Experiments and Comparisons of Power to Failure for SiGe-Based Low-Noise Amplifiers under High-Power Microwave Pulses (#8879) Liang Zhou (Shanghai Jiaotong University)
04:40pm	WE-PM-II-TC-09-3 Parallel DGTD Method for Transient Electromagnetic Problems (#9600) Haoqing Chen (Jiangsu Normal University), Zhenbao Ye (Institute of Applied Physics and Computational Mathematics), Lei Zhao (Jiangsu Normal University), Haijing Zhou (Institute of Applied Physics and Computational Mathematics), Wenhua Yu (Jiangsu Normal University)	WE-PM-II-TC-11-3 Plasmonic enhanced emission from nanostructured embedded InGaN/GaN MQWs with silver nanoparticles (#9229) Chew Beng Soh (Singapore Institute of Technology), Guo Sheng Kwang (University of Glasgow), Simon Ching Man Yu (Singapore Institute of Technology), Cheng Yuan Yang (IMRE A*STAR)	WE-PM-II-TC-05-3 About the Possibility of Mistakes When Using Unipolar Electric Field Pulses When Assessing Electronic Device Immunity to UWB Pulses (#9040) Yury Parfenov (Russian Academy of Sciences), Vladimir Chepelev (Russian Academy of Sciences), William Radasky (Metatech Corporation)
05:00pm	WE-PM-II-TC-09-4 Mutual Coupling Analysis of Multiple On-Board Antennas with Sub-Domain MoM-PO Method (#9401) Zi-Liang Liu, Chao-Fu Wang (National University of Singapore)	WE-PM-II-TC-11-4 Modelling of electrical percolation and conductivity of carbon nanotube based polymer nanocomposites (#9336) Lekshmi Mohan, Sunitha K, Sindhu T K (National Institute of Technology Calicut)	WE-PM-II-TC-05-4 Antenna Gain of Folded Rhombic Antenna for Transient Electric-field Measurements (#10078) Shinobu Ishigami (Tohoku Gakuin University)

Technical Sessions – Thursday, May 17, 2018 (AM-I)

Rooms	Room #331	Room #332	Room #333
08:30am – 10:10am	TM-05: Biomedical Electromagnetic Chair(s): Kazuyuki Saito and Jianqing Wang	TM-02: EMC in Railway Systems Chair(s): Peter S. W. Leung and Samuel Chan	SS-11: Advanced Measurements Technologies for 5G Chair(s):
08:30am	TH-AM-I-TM-05-1 Study on the Searching Strategies of Assessing the MRI RF-induced Heating for an Implantable Plate and Screw System (#9015) <i>Ji Chen (University of Houston)</i>	TH-AM-I-TM-02-1 Analysis of Induced Voltage at Close Proximity with High Voltage Cable of Electrified Railways (#8828) <i>Tony W K LO (EMC Consortium Limited, Hong Kong), Peter Sai-Wing Leung (City University of Hong Kong), Patrick Wong (EMC Consortium Limited), Timothy Yun-Ming Siu (City University of Hong Kong), Weinong Sun (City University of Hong Kong)</i>	TH-AM-I-SS-11-1 Fast Measurement of Phased Array Antenna for 5G Base Station (#10248) <i>Qi Jin (Shenzhen General Test Systems Inc.)</i>
08:50am	TH-AM-I-TM-05-2 Impact on Human Exposure to Low Frequency Radiation with Psychological and Brainwave changes (#9465) <i>Yaqing He (City University of Hong Kong)</i>	TH-AM-I-TM-02-2 Research on the Influence of Metal Groove on Wires Coupling in EMU (#9779) <i>Yali Song (Beijing Jiaotong University), Yinghong Wen (Beijing Jiaotong University), Dan Zhang (Beijing Jiaotong University), Lu Xing (Beijing Jiaotong University), Liangde Ma (China Academy of Railway Sciences)</i>	TH-AM-I-SS-11-2 A Measurement System for Passive Intermodulation with Real Time Environment Parameter Detection (#9867) <i>Wanzhao Cui (National Key Laboratory of Science and Technology on Space Microwave)</i>
09:10am	TH-AM-I-TM-05-3 Managing the Electromagnetic Environment of Hospital IoT Systems (#9688) <i>Eisuke Hanada (Saga University Graduate School of Science and Engineering), Takato Kudou (Oita University)</i>	TH-AM-I-TM-02-3 German EMC Homologation Requirement EMV06 (#10205) <i>Lorenz Jung (Siemens AG)</i>	TH-AM-I-SS-11-3 5G antenna characterization in the far-field: how close can far-field be? (#9920) <i>Benoit Derat (Rohde & Schwarz)</i>
09:30am	TH-AM-I-TM-05-4 Solutions for EM Exposure Assessment of 5G Wireless Devices (#10457) <i>Mark Douglas (IT'IS Foundation (Member of Zurich43))</i>	TH-AM-I-TM-02-4 The Modeling and Simulation on Overall-train EMI of China Standardized High-speed Train (#10291) <i>Junpeng Ji (Xi'an University of Technology)</i>	TH-AM-I-SS-11-4 Equivalent Sources Approach on Radiation Performance Evaluation of Personal Wireless Devices with Head and Hand Phantom (#10237) <i>Qingchun Luo (ShenZhen General Test System Inc.)</i>

09:50am	TH-AM-I-TM-05-5 Development of Wearable ECG Based on Human Body Communication Technology (#10119) <i>Yusuke Sawatari, Daisuke Anzai, Jianqing Wang (Nagoya Institute of Technology)</i>	TH-AM-I-TM-02-5 Simulations of Railway VCB Switching Noise (#10020) <i>Umberto Paoletti, Kiyoto Matsushima (Hitachi, Ltd., Yokohama Research Laboratory)</i>	TH-AM-I-SS-11-5 High-power Honeycomb Absorber for 5G Millimeter Wave Chambers (#10242) <i>Lie Liu (General Test Systems Inc.)</i>
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Technical Sessions – Thursday, May 17, 2018 (AM-I)

Rooms	Room #334	Room #335	Room #336
08:30am – 10:10am	<p>TM-06: Efficient and Accurate Simulation of Multi-scale EMC & SI/PI <i>Chair(s): Siping Gao, Huapeng Zhao</i></p>	<p>SS-05: Potential Electromagnetic Techniques for Booming Wireless Communications <i>Chair(s): Han-Chang Hsieh and Chow-Yen-Desmond Sim</i></p>	<p>TM-04: EMC in Power Electronics and Smart Grid <i>Chair(s): Henglin Chen and Flavia Grassi</i></p>
08:30am	<p>TH-AM-I-TM-06-1 A Novel Hybrid 2D/Q-2D Finite Element Method for Power/Ground Plane Analysis (#10025) <i>Ping Li (The Univeristy of Hong Kong)</i></p>	<p>TH-AM-I-SS-05-1 Design Procedure of A CPW-Fed Monopole Antenna For Dual-Band Operation (#8799) <i>Jun-Yu Lai, Ji-Xiang Zheng, Chien-Jen Wang (National University of Tainan)</i></p>	<p>TH-AM-I-TM-04-1 Conducted Emissions Simulation Technology for an Inverter Device Integrated into the Motor (#9535) <i>Yoshitaka Nishiguchi (SOKEN, INC.), Shinji Ohoka (SOKEN, INC.), Yoshihiro Kida (SOKEN, INC.), Kazutoshi Shiomi (DENSO CORPORATION)</i></p>
08:50am	<p>TH-AM-I-TM-06-2 A Combined 1D and 2D DGTD Method for Modeling Multilayer Power-Ground Planes with Narrow Slots (#10262) <i>Hui Min Lee (Institute of High Performance Computing, A*STAR), Si-Ping Gao (National University of Singapore), En-Xiao Liu (Institute of High Performance Computing (IHPC), A*STAR)</i></p>	<p>TH-AM-I-SS-05-2 On the Simultaneous Switching Noise Suppression by the Integration of Z-shape Power Bus and Bandstop Filter (#8981) <i>Tse-Hsuan Wang, Lin-Zong Zheng, Ding-bing Lin, Min-Hung Hsieh (National Taiwan University of Science and Technology)</i></p>	<p>TH-AM-I-TM-04-2 Variability Analysis of a Boost Converter Based on an Iterative and Decoupled Circuit Implementation of the Stochastic Galerkin Method (#9834) <i>Paolo Manfredi (Politecnico di Torino), Riccardo Trincherò (Politecnico di Torino), Dries Vande Ginste (Ghent University)</i></p>
09:10am	<p>TH-AM-I-TM-06-3 Electromagnetic Analysis of Massive Vertical Interconnects for Dense Pin Assignment Optimization Using Multiple Scattering Techniques (#9944) <i>Boping Wu (Huawei Technologies)</i></p>	<p>TH-AM-I-SS-05-3 A Compact CPW-Fed Monopole Antenna For Dual-Band Circular Polarization (#8800) <i>Ji-Xiang Zheng, Jun-Yu Lai, Chien-Jen Wang (National University of Tainan)</i></p>	<p>TH-AM-I-TM-04-3 Electromagnetic Modeling of High Voltage Multi-Level Converter Substations (#9850) <i>Didier Cottet, Bernhard Wunsch, Goran Eriksson, Filip Grecki, Magdalena Ostrogorska, Wojciech Piasecki, Jenny Skansens, Olof Andersson (ABB Switzerland Ltd.)</i></p>
09:30am	<p>TH-AM-I-TM-06-4 An Improved Expression of Via Barrel-Plate Capacitance Based on a Convergence Study (#8749) <i>Si-Ping Gao (National University of Singapore), Francesco de Paulis (University of L'Aquila), En-Xiao Liu (Institute of High Performance Computing, A*STAR), Antonio Orlandi (University of L'Aquila), Hui Min Lee (Institute of High Performance Computing,</i></p>	<p>TH-AM-I-SS-05-4 An Ultrathin Wideband Capsule Antenna with Low Level Specific Absorption Ratio (#8871) <i>Mengjun Wang (Hebei University Of Technology), Lulu Cai (School of Electronic Information Engineering), Ze Yang (School of Electronic Information Engineering), Hongxing Zheng (School of Electronic Information Engineering)</i></p>	<p>TH-AM-I-TM-04-4 Broadband Models of High Voltage Power Transformers and Their Use in EMC System Simulations of High Voltage Substations. (#9870) <i>Bernhard Wunsch, Didier Cottet, Goran Eriksson (ABB Switzerland Ltd.)</i></p>

	A*STAR)		
09:50am	<p>TH-AM-I-TM-06-5 Analysis of the Accuracy and Limitation of Contour Integral Equation Modeling of Planar Structures (#10312) <i>Huapeng Zhao (UESTC)</i></p>	<p>TH-AM-I-SS-05-5 An Effective EMI-Suppression Technique for Modern Wideband Common-Mode Filters (#8954) <i>Cheng-Nan Chiu, Chien-Ting Kao (Yuan Ze University)</i></p>	<p>TH-AM-I-TM-04-5 Common Mode Noise Analysis of buck-boost converter for hybrid energy storage systems (#9057) <i>Minghai Dong, Hui Li, Qishui Zhong, Yingzhe Wu (University of Electronic Science and Technology of China)</i></p>

Technical Sessions – Thursday, May 17, 2018 (AM-II)

Rooms	Room #331	Room #332	Room #333
10:30am – 12:30pm	TC-10: SI/PI <i>Chair(s):</i>	TM-03: WPT <i>Chair(s):</i>	SS-09: Hardware Security for IoT Devices <i>Chair(s): William A. Radasky, Yuichi Hayashi</i>
10:30am	TH-AM-II-TC-10-1 A Pseudo-supervised Machine Learning Approach to Broadband LTI Macro-Modeling (#9481) <i>Jose Schutt-Aine, Thong Nguyen (University of Illinois at Urbana - Champaign)</i>	TH-AM-II-TM-03-1 An Ambient Energy Harvester Using Metasurface (#10121) <i>Qi Zhao (Xidian University)</i>	TH-AM-II-SS-09-1 Introduction to EM Information Security for IoT Devices (#10208) <i>Yuichi Hayashi (Nara Institute of Science and Technology), Ingrid Verbauwheide (imec-COSIC KU Leuven), Bill Radasky (Metatech Corporation)</i>
10:50am	TH-AM-II-TC-10-2 Most Energy-Efficient Input Voltage Functions for RC Delay Line (#9457) <i>Radit Smunyahirun, Eng Leong Tan (Nanyang Technological University)</i>	TH-AM-II-TM-03-2 Design of Toroidal Core for Magnetic Energy Harvester Near Power Line Considering Saturation (#10211) <i>Bumjin Park (KAIST)</i>	TH-AM-II-SS-09-2 Comparison of two Setups for Contactless Power Measurements for Side-Channel Analysis (#10350) <i>Arthur Beckers, Benedikt Gierlichs, Josep Balasch, Ingrid Verbauwheide (imec-COSIC KU Leuven)</i>
11:10am	TH-AM-II-TC-10-3 Electrical-Thermal Co-Simulation for Through Silicon Via and Active Tier in 3-D IC (#10199) <i>Qiu Min (Zhejiang University), Shi-Yun Zhou (Zhejiang University), Cheng Zhuo (Zhejiang University), Hang Jin (Zhejiang University), Jian-Ming Jin (University of Illinois at Urbana Champaign), Er-Ping Li (Zhejiang University)</i>	TH-AM-II-TM-03-3 High Efficiency Wireless Power Transfer System Robust against Misalignment (#10246) <i>Jiafeng Zhou (University of Liverpool)</i>	TH-AM-II-SS-09-3 Extention of Signal-to-Noise Ratio Measurement Method to Byte-by-Byte Side-Channel Attack (#10243) <i>Kengo Iokibe (Okayama University)</i>
11:30am	TH-AM-II-TC-10-4 Statistical Eye-Diagram Estimation for High-Speed Channel Including 3-Tap Decision Feedback Equalizer (DFE) (#8771) <i>Junyong Park, Huijin Song, Dong-Hyun Kim, Sumin Choi, Joungho Kim (Korea Advanced Institute of Science and Technology (KAIST))</i>	TH-AM-II-TM-03-4 The study on permeability parameter of WPT coil substrate effect of shielding effectiveness and transfer efficiency (#10250) <i>Wei-jia Li, Yun Wang, Chao Pang, Hui Chen, Di-Fei Liang, Long-Jiang Deng (University of Electronic Science and Technology of China)</i>	TH-AM-II-SS-09-4 Weighted Key Enumeration for EM-based Side-Channel Attacks (#10382) <i>Yang Li, Xiaohan Meng, Shuang Wang, Jian Wang (Nanjing University of Aeronautics and Astronautics)</i>

11:50am	<p>TH-AM-II-TC-10-5 Advanced PDN Analysis and Optimization within a 3D SoC, SiP, PCB Co-Design Environment (#9154) <i>Ralf Bruening (ZUKEN)</i></p>	<p>TH-AM-II-TM-03-5 Wireless Power Transfer System for Unmanned Vehicle using T-shape Ferrite Structure (#10358) <i>Yujun Shin, Jaehyoung Park, Jonghoon Kim (KAIST), Byunggi Kwon, Heehyun Eun (LIG Nex1), Seungyoung Ahn (KAIST)</i></p>	<p>TH-AM-II-SS-09-5 Detection of IEMI against IoT Devices Using Voltage Monitor Constructed by Fully Digital Circuit (#10240) <i>Daisuke Fujimoto, Yuichi Hayashi (Nara Institute of Science and Technology), Arthur Beckers, Josep Balasch, Benedikt Gierlich, Ingrid Verbauwheide (imec-COSIC KU Leuven)</i></p>
12.10pm	<p>TH-AM-II-TC-10-6 Comprehensive Signal and Power Co-Investigation on DDR4 Simulation and Measurement (#9447) <i>Nick K. H. Huang, Liang-Yu Shih (ASUSTek Computer Inc.)</i></p>	<p>TH-AM-II-TM-03-6 45-Degree Polarized Microstrip Grid Arrays for Millimeter-Wave Micro Base Station (#9995) <i>Yueping Zhang (Nanyang Technological University)</i></p>	

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10:30am – 12:30pm	TM-06: Efficient and Accurate Simulation of Multi-scale EMC & SI/PI <i>Chair(s): Shiquan He, Siping Gao</i>	SS-05: Potential Electromagnetic Techniques for Booming Wireless Communications <i>Chair(s): Han-Chang Hsieh and Chow-Yen-Desmond Sim</i>	TM-04: EMC in Power Electronics and Smart Grid <i>Chair(s): Shuo Wang and Yanzhao Xie</i>
10:30am	TH-AM-II-TM-06-1 Research on Sparse Adaptive Beam-forming based on Non-Uniform Norm for Failure Elements (#10170) <i>Peng Xu, Hengxu WANG, Tao Jiang (Harbin Engineering University)</i>	TH-AM-II-SS-05-1 A High-Gain Circularly-Polarized Patch Antenna Design Using an Advanced Shielding Technique (#8956) <i>Cheng-Nan Chiu, Shao Po Sun (Yuan Ze University)</i>	TH-AM-II-TM-04-1 Non-ideal Electric Field Shielding with Grounding Resistor for Suppressing EMI Coupling in a Power Converter (#9852) <i>Shize Ye (Zhejiang University), Xiaoyan Zheng (Zhejiang University), Zhichao Zheng (Zhejiang University), Ji Xiao (State Grid Corporation of China), Henglin Chen (Zhejiang University)</i>
10:50am	TH-AM-II-TM-06-2 The Associated Hermite FDTD Method: Developments and Applications (#10228) <i>Zheng-Yu Huang (Nanjing University of Aeronautics and Astronautics)</i>	TH-AM-II-SS-05-2 Near- and Far-Field Shielding Effectiveness Analysis of Magnetic Materials and Their Effect on Wireless Power Charger (#8971) <i>Cheng-Hau Wu (Feng Chia University)</i>	TH-AM-II-TM-04-2 Numerical Approach to Study Layout Influence on Electromagnetic Emissions Signature (#9617) <i>Wided Belloumi (Laboratoire Ampère), Arnaud Breard (Laboratoire Ampère), Jaleddine Ben Hadj Slama (University of Sousse), Christian Voltaire (Laboratoire Ampère)</i>
11:10am	TH-AM-II-TM-06-3 Finite-Difference Time-Domain Method for Multilayer Carbon-Fiber-Reinforced Polymer Panel using Tensorial Conductivity Matrix (#9277) <i>Zaifeng Yang, Hui Min Lee, Si-Ping Gao, Richard Xian-Ke Gao, Ching Eng Png (Institute of High Performance Computing, A*STAR)</i>	TH-AM-II-SS-05-3 On Investigation of Near-field Antenna for Pulse-based Vital-sign Monitoring Application (#9374) <i>Chia-Hung Chang (Feng Chia University), Wei-Ping Hung (National Chao-Tung University)</i>	TH-AM-II-TM-04-3 Overvoltage of secondary cables in substation due to short circuit fault (#10298) <i>Yongchang Meng (Tsinghua University), Bo Zhang (Tsinghua University), Wei Shen (Shaanxi Electric Power Research Institute), Sen Wang (Shaanxi Electric Power Research Institute), Yutang Ma (Yunnan Electric Power Research Institute)</i>
11:30am	TH-AM-II-TM-06-4 Transient Analysis of Magnetic Balance Sensor with Field-Circuit Combined Simulation (#10267) <i>Yongfu Liu, Shiquan He (University of Electronic Science and Technology of China)</i>	TH-AM-II-SS-05-4 Microwave Orbital Angular Momentum Mode Multiplexing Using Circular Slot Antenna (#10234) <i>Zixiao Zhang, Liangqi Gui, Dandan Liu, Han Chen (Huazhong University of Science and Technology)</i>	TH-AM-II-TM-04-4 Automated Equivalent Circuit Extraction of Impedance Curves Using a Gauss-Newton Algorithm (#9873) <i>Niek Moonen, Jesper Lansink Rotgerink (University of Twente)</i>

11:50am	<p>TH-AM-II-TM-06-5 Radiation Physics Analysis of High-speed Connectors with Sub-structure Characteristic Modes (#10268) <i>Xu Wang (UESTC), Shiquan He (UESTC), Ying S. Cao (Missouri University of Science and Technology)</i></p>	<p>TH-AM-II-SS-05-5 Circular Sector Antenna Pair with Harmonic Rejection Property for Near-Field Wireless Power Transmission (#9027) <i>Ding-bing Lin (National Taiwan University of Science and Technology), Ifong Wu (National Institute of Information and Communications Technology), Ling Tien (Department of Electronic Engineering National Taipei University of Technology), YiHao Huang (Department of Electronic and Computer Engineering National Taiwan University of Science and Technology)</i></p>	<p>TH-AM-II-TM-04-5 Analysis of Conducted EMI in Si IGBT + SiC MOSFET Hybrid Switch Based Converters (#10383) <i>Amol Deshpande, Balaji Narayanasamy, Fang Luo (University of Arkansas)</i></p>
12.10pm	<p>TH-AM-II-TM-06-6 A Measurement Verification for EMI Source Reconstruction Method Based on Amplitude-only Near-Field Scanning (#10311) <i>Jing Zhou (Huawei Technologies Co. Ltd.), Yu-Fei Shu (Zhejiang University), Jun Li (Zhejiang University), Nan Xia (Huawei Technologies Co. Ltd.), Zheng-Dong Gu (Huawei Technologies Co. Ltd.), Xing-Chang Wei (Zhejiang University)</i></p>	<p>TH-AM-II-SS-05-6 Small-Sized, Printed 2.4/5-GHz WLAN Notebook Antenna Aimed for 4 x 4 Multiple Transmit/Receive Antennas in Future Gbps Communications (#9028) <i>Saou-Wen Su, Bin-Chyi Tseng (ASUSTek Computer Inc.)</i></p>	<p>TH-AM-II-TM-04-6 Experimental Analysis and Circuit Modeling of Pulsed Current Injection in Wire Pairs (#10329) <i>Zithong Cui (Xidian University), Flavia Grassi (Politecnico di Milano), Sergio Pignari (Politecnico di Milano), Bing Wei (Xidian University)</i></p>

Technical Sessions – Thursday, May 17, 2018 (PM-I)

Rooms	Room #331	Room #332	Room #333
01:30pm – 03:30pm	SS-02: Metamaterials/metasurfaces for Manipulations of Electromagnetic Waves Chair(s): He-Xiu Xu and Yongjun Huang	SS-14: Radio Frequency Remote Sensing Chair(s):	TC-02: EMC Measurement Chair(s):
01:30pm	TH-PM-I-SS-02-1 Verification and Crosstalk of Chirowaveguides (#10184) Zhihao Jiang (Southeast University)	TH-PM-I-SS-14-1 Synthesis of Wide-band Radar Signals Using Multiple Subbands in Complex Noise Environment (#10324) Huapeng Zhao (UESTC)	TH-PM-I-TC-02-1 Extraction of Equivalent Impedance of Photovoltaic Panel under its Actual Operating Conditions (#9546) Manish Prajapati, Kye-Yak SEE (Nanyang Technological University)
01:50pm	TH-PM-I-SS-02-2 Metalens in Microwave Region for the Generation of Orbital Angular Momentum (#9438) Kuang Zhang, Yueyi Yuan, Qun WU (Harbin Institute of Technology)	TH-PM-I-SS-14-2 Analysis of the Impacts of Ionospheric Scintillation on Geosynchronous SAR Based on Spherical Wave Correction (#10202) Xichao Dong, Jiaqi Hu, Cheng Hu, Yuanhao Li, Dandan Zhang (Beijing Institute of Technology)	TH-PM-I-TC-02-2 An Optimal Design of Printed Log- Periodic Antenna for L-band EMC Applications (#9666) Keyur Mistry (University of Huddersfield), Pavlos Lazaridis (University of Huddersfield), Zaharis Zaharis (Aristotle University of Thessaloniki), Thomas Xenos (Aristotle University of Thessaloniki), Emmanouil Tziris (Brunel University), Ian Glover (University of Huddersfield)
02:10am	TH-PM-I-SS-02-3 Broadband Wide-Angle Polarization-Independent Diffusion Using Parabolic- Phase Metasurface (#8733) He-Xiu Xu (Air Force Engineering University)	TH-PM-I-SS-14-3 Efficient Stochastic Analysis of Transmission Signal Integrity for Remote Sensing Applications (#10294) Zhouxiang Fei, Yi Huang, Jiafeng Zhou, Chaoyun Song, Tianyuan Jia (University of Liverpool)	TH-PM-I-TC-02-3 WLAN MIMO Antennas for Smart Watch Applications (#9800) Ting-Yan Zhuo (Southern Taiwan University of Science and Technology), Wen-Shan Chen (Southern Taiwan University of Science and Technology), Chow-Yen-Desmond Sim (Feng Chia University)
02:30pm	TH-PM-I-SS-02-4 Reflective metasurface for generating vortex wave in Ultra-wideband (#9189) Xiaohang Dong, Hengyi Sun, Changqing Gu, Baijie Xu, Kuan Wang, Zhuo Li (Nanjing University of Aeronautics and Astronautics)	TH-PM-I-SS-14-4 Wafer Level Heterogeneous Integration of a Millimeter-wave Transceiver module and its EMC problems (#10155) Baolong Xu, Xin Yan, Liang Zhou (Shanghai Jiaotong University)	TH-PM-I-TC-02-4 Field Uniformity Improvement at Lower Frequencies in a Reverberation Chamber Using Metasurfaces (#9150) Jiajia Song, Zhuo Li, Hengyi Sun, Jianfeng Shi, Changqing Gu, Kuan Wang (Nanjing University of Aeronautics and Astronautics)
02:50pm	TU-PM-I-SS-02-5 Metasurfaces for specific beams generations (#10364) Jian Li (University of Electronic Science and Technology of China)	TH-PM-I-SS-14-5 Aluminium feeds for reflector for nadirSAR (#10336) Derek Gray (Xi'an Jiaotong Liverpool University), Julien Le Kernec (University of Glasgow)	TH-PM-I-TC-02-5 The Future of EMC Testing (#10060) Sangam Baligar (Amplifier Research Corp)

03:10pm	TU-PM-I-SS-02-6 Beam Scanning Range Expansion of Liquid Crystals Based Leaky Wave Antennas (#10160) <i>Ma Shuang, Meng Fan-Yi, Yang Guo-Hui, Zhang Kuang, Ding Xu-Ming, Wu Qun, Zhu Lei (Harbin Institute of Technology)</i>	TH-PM-I-SS-14-6 The Role of FSV in EMC Characterization (#10444) <i>Alistair Duffy (De Montfort University), Gang Zhang (Harbin Institute of Technology)</i>	TH-PM-I-TC-02-6 New standardized EMC evaluation methods for communication transceivers (#10289) <i>Frank Klotz (Infineon Technologies AG)</i>
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Technical Sessions – Thursday, May 17, 2018 (PM-I)

Rooms	Room #334	Room #335	Room #336
01:30pm – 03:30pm	TM-06: Efficient and Accurate Simulation of Multi-scale EMC & SI/PI (I) <i>Chair(s): Huapeng Zhao, Xingchang Wei</i>	SS-06: Design and Modeling of Emerging EM Comp. & Devices <i>Chair(s):</i>	TC-05: Electrostatic Discharge and Arcs <i>Chair(s): William Radasky and Yoshihiro Baba</i>
01:30pm	TH-PM-I-TM-06-1 Challenges of Multi-scale Modelling for System-level EMI Simulation (#10024) <i>Ming Zhou, Shuai Xu, Jing Li (Huawei Technologies Co., Ltd.)</i>	TH-PM-I-SS-06-1 A Miniaturized Dual-"S"-Shaped Millimeter Wave Antenna with Omni-directional Horizontally Polarized Radiation Pattern (#9064) <i>Chao-Wei Yang, Shi Pu, Xiao-Ying Xu (Wuhan University of Technology), Chen Wang (Altair Engineering Software (Shanghai) Co., Ltd.)</i>	TH-PM-I-TC-05-1 A Simulation and Experimental Study of ESD Failures Caused by Internal Digital Clock and its Mitigation (#9636) <i>Pujitha Davuluri, Hao-Han Hsu, Min Keen Tang, Kae-An Liu (Intel Corporation)</i>
01:50pm	TH-PM-I-TM-06-2 A Statistical Equivalent Circuit Modelling based on dembedded S-Parameters (#10322) <i>De-Cao Yang (Huawei Technologies Co. Ltd.), Jing Zhou (Huawei Technologies Co. Ltd.), Shi Yao (Zhejiang University), Liang Gao (Zhejiang University), Nan Xia (Huawei Technologies Co. Ltd.), Zheng-Dong Gu (Huawei Technologies Co. Ltd.), Xing-Chang Wei (Zhejiang University)</i>	WE-PM-I-SS-06-2 A Low-Profile Dual-Band-Pass FSS Applied to Wi-Fi Communication Systems (#9662) <i>Yun Jing Zhang, Mei Song Tong (Tongji University)</i>	TH-PM-I-TC-05-2 A Study on Transient Current Distribution caused by Micro-gap ESD in Spherical Electrode. (#9978) <i>Masato Oikawa, Chihiro Okamura, Ken Kawamata, Shinobu Ishigami, Shigeki Minegishi (Tohoku Gakuin University), Osamu Fujiwara (Nagoya Institute of Technology)</i>
02:10am	TH-PM-I-TM-06-3 Circuit Models for Bulk Current Injection (BCI) Clamps with Multiple Cables (#10338) <i>Bibhu Nayak (Indian Institute of Science)</i>	WE-PM-I-SS-06-3 Analytical Modeling of SiC MOSFET during Switching Transient (#9843) <i>Yingzhe Wu, Hui Li, Chuan Li, Chuang Bi (University of Electronic Science and Technology of China), Yongjian Zhi (CRRC Zhuzhou Institute Co., Ltd.), Weizheng Yao, Gang Liu (XUJI Group Corporation)</i>	TH-PM-I-TC-05-3 Elimination of ESD Events and Optimizing Waterjet Deflash Process for Reduction of Leakage Current Failures on QFN-mr Leadframe Devices (#8979) <i>Frederick Ray Gomez, Tito Mangaoang (STMicroelectronics, Inc.)</i>
02:30pm	TH-PM-I-TM-06-4 Impedance Calculation of Grid Power Distribution Network with Irregular Shapes (#8837) <i>Weiyang Ding (Zhejiang University), Tie-Ming Xiang (Hangzhou Dianzi University), Li Ding (Zhejiang University), Xing-Chang Wei (Zhejiang University)</i>	WE-PM-I-SS-06-4 Broadband THz Generation from Plasmonic Metasurface (#9882) <i>Ming Fang (Anhui Univeristy)</i>	TH-PM-I-TC-05-4 Efficient Analysis of ESD Noise Coupling to Mobile Device Memory Module (#9026) <i>Jawad Yousaf (Sungkyunkwan University, South Korea), Hosang Lee (Sungkyunkwan University), Myeongkoo Park (Sungkyunkwan University, South Korea), Jinsung Youn (Samsung Electronics Co, Ltd), Daehee Lee (Samsung Electronics Co, Ltd), Chanseok Hwang (Samsung Electronics Co, Ltd), Wansoo Nah (Sungkyunkwan University)</i>

02:50pm	<p>TH-PM-I-TM-06-5 Analytical Intra-System EMI Model using Dipole Moments and Reciprocity (#9426) <i>Sangsu Lee (Ajou University), Yang Zhong (Missouri University of Science and Technology), Qiaolei Huang (Missouri University of Science and Technology), Takashi Enomoto (Sony Global Manufacturing and Operations Corporation), Shingo Seto (Sony Global Manufacturing and Operations Corporation), Kenji Araki (Sony Global Manufacturing and Operations Corporation), Jun Fan (Missouri University of Science and Technology), Chulsoon Hwang (Missouri University of Science and Technology)</i></p>	<p>TH-PM-I-SS-06-5 Theoretical Calculation and Electromagnetic Simulation of Smith-Purcell in Photonic Crystals (#9930) <i>Xiaoqiuyan Zhang (University of Electronic Science and Technology of China)</i></p>	<p>TH-PM-I-TC-05-5 Time Domain Measurement of Collision ESD Using Optical E-Field Sensor (#10074) <i>Takayoshi Ohtsu (National Institute of Technology, Numazu College), Norihiro Ogishima (National Institute of Technology, Numazu College), Haruki Tashiro (National Institute of Technology, Numazu College), Ryuji Osawa (SEIKOH GIKEN Co., Ltd)</i></p>
03:10pm	<p>TH-PM-I-TM-06-6 Simplification Technique for Modeling Electromagnetic Radiation of Shielding Cable Bundle (#8790) <i>Pei Xiao, Ping-An Du, Bao-Lin Nie (University of Electronic Science and Technology of China)</i></p>	<p>TH-PM-I-SS-06-6 Bended Differential Transmission Lines Using Asymmetric Stepped-Impedance Lines for Common-Mode Noise Suppression (#9971) <i>Jian Wang (Ningbo University)</i></p>	<p>TH-PM-I-TC-05-6 Analysis of Relationship between Arc Power and High Frequency Electromagnetic Radiated Noise (#9165) <i>Shingo Shimizu (SOKEN, INC.)</i></p>

Technical Sessions – Thursday, May 17, 2018 (PM-II)

Rooms	Room #331	Room #332	Room #333
03:50pm – 05:30pm	TC-10: SI/PI <i>Chair(s):</i>	TC-04: EMI/EMC <i>Chair(s): C. N. Chiu</i>	TC-01/02/03: EMC Management, Measurement & Environment <i>Chair(s): Frank Leferink</i>
03:50pm	<p>TH-PM-II-TC-10-1 Comparison Test and Error Analysis of the TEM Cell Method in IC Radiated Emission (#10290) <i>Yafei Li (Tianjin Binhai Civil-military Integrated Innovation Institute), Haiyan Ma (Shanghai Aerospace Electronic Technology Institute), Jianfei Wu (National University of Defense Technology), Hong Li (Tianjin Binhai Civil-military Integrated Innovation Institute), Hongli Zhang (Tianjin Binhai Civil-military Integrated Innovation Institute)</i></p>	<p>TH-PM-II-TC-04-1 Antenna Calibration in Annechic Chamber (30MHz to 1GHz) (#9205) <i>Yujiro Seki (IPS Corporation)</i></p>	<p>TH-PM-II-TC-01-1 Decision Rules for Metrological Confirmation of EMC Measurement Equipment (#8949) <i>Carlo Carobbi (University of Florence)</i></p>
04:10pm	<p>TH-PM-II-TC-10-2 Common mode conversion noise suppression using L-Pad with asymmetric coupled lines on bended differential lines (#9651) <i>Seungjin Lee (Korea University), Jaehyuk Lim (Korea University), Sangyeol Oh (Korea University), Jaehoon Lee (Korea University), Yonghoon Kim (Samsung Electronics, Inc.), Dan Oh (Samsung Electronics, Inc.)</i></p>	<p>TH-PM-II-TC-04-2 Probability Assessment of Electromagnetic Environment Effects Based on Gaussian Process Classification and Co-kriging Model (#9197) <i>Yuhao Chen (Xi'an Jiaotong University), Kejie Li (Xi'an Jiaotong University), Shaoyan Gong (Global Energy Interconnection Research Institute co.,LTD), Minzhou Liu (Xi'an Jiaotong University), Yanzhao Xie (Xi'an Jiaotong University)</i></p>	<p>TH-PM-II-TC-01-2 Teaching EMC using an EMC demonstration unit (#9492) <i>Andy Degraeve (KU Leuven, Bruges Campus), Joan Peuteman (KU Leuven, Bruges Campus), Davy Pissoot (KU Leuven, Bruges Campus), Keith Armstrong (Cherry Clough Consultants Ltd)</i></p>
04:30am	<p>TH-PM-II-TC-10-3 Analysis of electromagnetic shielding of IC package with thin absorbing material coating inside in two different configurations (#8778) <i>Wentao Xiong (Shenzhen University), Mei Jiang (Shenzhen University), Mingcheng Zhu (Shenzhen University), Boyuan Zhu (Griffith University), Junwei Lu (Griffith University)</i></p>	<p>TH-PM-II-TC-04-3 Observation of Electromagnetic Noise from LED Shadowless Lights (#9658) <i>Kai Ishida (National Institute of Information and Communications Technology), Tomoe Yoshida (Kitasato University), Sazu Arie (National Institute of Information and Communications Technology), Masaki Matsuzuki (Mie University Hospital), Eisuke Hanada (Saga University Graduate School of Science and Engineering), Minoru Hirose (Kitasato University)</i></p>	<p>TH-PM-II-TC-02-1 Non-contact Monitoring Method for Overvoltage Based on Pockels Effect (#9087) <i>Jun Deng, Hai Qian, Jinwei Chu, Zhiliang Lu, Liang Zhang, Zhicheng Xie, Zhilong Zou (Extra-High Voltage Transmission Company of China Southern Power Grid)</i></p>

04:50pm	<p>TH-PM-II-TC-10-4 A Novel BG-Triggered ggNMOS Structure for FDSOI ESD Protection (#9450) <i>Lizhong Zhang, Yuan Wang, Xiaotian Chen, Yandong He, Ru Huang (Peking University)</i></p>	<p>TH-PM-II-TC-04-4 An Analytical Approach for DC-Link DM Filter Design for PM AC Motor Drives (#9380) <i>Dragan Micic (Woodward Inc)</i></p>	<p>TH-PM-II-TC-03-1 Safety Aspects of High Power LTE Wearable Antenna (#9962) <i>Haim Matzner(HIT-Holon Institute of Technology), Ely Levine (Afeka college of Engineering)</i></p>
05:10pm	<p>TH-PM-II-TC-10-5 Differential Mode Pre Filter regarding DC Capacitor Topology (#9561) <i>Ousseynou Yade (Université de Lyon), Arnaud Breard (Université de Lyon), Christian Martin (Université de Lyon), Christian Voltaire (Université de Lyon), Regis Meuret (Labinal Power Systems), Marwan Ali (Université de Lyon)</i></p>	<p>TH-PM-II-TC-04-5 Relay switching synchronous with the grid cross the zero to eliminate the EFT interferences (#9478) <i>Minchao Huang (Minye Information Technology (Shanghai) Co., Ltd.)</i></p>	<p>TH-PM-II-TC-03-2 Fields and Current Densities Induced in the Human Body by Low-frequency Electromagnetic Fields (#9038) <i>Patricio E. Munhoz-Rojas (Institutos Lactec), Cresencio Silvio Segura-Salas (Institutos Lactec), Alexandre A. Costa (Institutos Lactec), Rafael Martins (COPEL G&T), Josef Hoffmann-Neto (COPEL G&T)</i></p>
5.30pm			

Technical Sessions – Thursday, May 17, 2018 (PM-II)

Rooms	Room #334	Room #335	Room #336
03:50pm – 05:30pm	<p>TM-06: Efficient and Accurate Simulation of Multi-scale EMC & SI/PI <i>Chair(s): Xingchang Wei, Chaofu Wang</i></p>	<p>SS-06: Design and Modeling of Emerging EM Components and Devices <i>Chair(s):</i></p>	<p>TC-07: Low Freq. EMC <i>Chair(s):</i></p>
03:50pm	<p>TH-PM-II-TM-06-1 Electromagnetic Interference Investigation of PCB in Metallic Enclosures Using ADI-FDTD Method (#9576) <i>Liang Chen, Min Tang, Junfa Mao (Shanghai Jiao Tong University)</i></p>	<p>TH-PM-II-SS-06-1 An Integrated UHF/UWB Tag Antenna with Radome for Indoor Positioning System (#10057) <i>Da Li, Zhongxiang Shen, Er-Ping Li (Zhejiang University)</i></p>	<p>TH-PM-II-TC-07-1 Extraction of Voltage-Dependent Capacitances of SiC Device through Inductive Coupling Method (#8886) <i>Zhenyu Zhao, Kye-Yak See, Eng-Kee Chua, Arun Shankar Narayanan, Arjuna Weerasinghe (Nanyang Technological University), Wayne Chen (SMRT Corporation Ltd.)</i></p>
04:10pm	<p>TH-PM-II-TM-06-2 Exploration of Characteristic Mode Theory for Electromagnetic Compatibility Modeling (#9431) <i>Sai Ho Yeung, Chao-Fu Wang (National University of Singapore)</i></p>	<p>TH-PM-II-SS-06-2 Microwave Plasmonic Waveguides and Devices (#10266) <i>Hui Feng Ma (Southeast University)</i></p>	<p>TH-PM-II-TC-07-2 Influence of Mutual Coupling on Parasitic Capacitance in Common Mode Chokes (#8893) <i>Niek Moonen (University of Twente), Anne Roc'h (Eindhoven University of Technology), Frank Leferink (University of Twente and THALES, Netherlands)</i></p>
04:30am	<p>TH-PM-II-TM-06-3 Study on EMC of Backplane Interconnect System Based on Interference Correlation (#9469) <i>Aixin Chen (Beihang University), Li Wang (Beihang University), Wenbin Wu (Beijing Institute of Aerospace Microsystems)</i></p>	<p>TH-PM-II-SS-06-3 Frequency dependent capacitance of metal semiconductor metal varactor diode and its tunable filter application (#9363) <i>Chien-Fu Shih, Liann-Be Chang, Der-Hwa Yeh, Tung-Wuu Huang (Chang Gung University)</i></p>	<p>TH-PM-II-TC-07-3 Analytical Calculation of Transformer Parameters by S-Parameters (#9355) <i>Jianquan Lou, Alpesh Bhoje, Cindy Shu, Jinghan Yu (Cisco Systems (China) R&D Co., Ltd.)</i></p>
04:50pm	<p>TH-PM-II-TM-06-4 Efficient Inductive Coupled In-circuit Impedance Extraction with Enhanced SNR and Instrument Protection (#9527) <i>Fei Fan (Nanyang Technological University), Kye-Yak SEE (Nanyang Technological University), Kangrong Li (Nanyang Technological University), Joseph Kiran Banda (Nanyang Technological University), Xiong Liu (Rolls-Royce Singapore Pte. Ltd.), Amit Kumar Gupta (Rolls-Royce Singapore Pte. Ltd.)</i></p>	<p>TH-PM-II-SS-06-4 A Compact Antenna for UWB Indoor Positioning (#10077) <i>Binfang Wang, Wei-Jiang Zhao (Institute of High Performance Computing)</i></p>	<p>TH-PM-II-TC-07-4 Modeling and Simulation of Switching Waveforms of Half-Bridge SiC Power Module in Single Leg T-type Converter for EMI Prediction (#9387) <i>Yong Liu, Kye-Yak See (Nanyang Technological University)</i></p>

05:10pm

TH-PM-II-TC-07-5

**About the Immunity of the
Equipment used to Monitor the Units
of Power Transformers**

(#9379)

*Petre-Marian Nicolae (University of
Craiova), Ileana-Diana Nicolae
(University of Craiova), Dumitru
Sacerdotianu (ICMET)*

Interactive Forum Sessions – Tuesday Afternoon, 15 May 2018

15 May 2018, Tuesday 1:30-3:30pm

Venue:

TU-PM-I-FOR-01

Analyzing the Model of Transformer Windings Under Very Fast Transient Overvoltage

(#9910)

Shiming Liu (Shandong University), Chuanshun Fu (Shandong University), Ying Zang (Shandong Electric Power Equipment Co., Ltd.), Shunqin Zhang (Shandong Electric Power Equipment Co., Ltd.), Shuai Li (Shandong University), Qiyang Huang (Shandong University), Qingyao Dong (Taian Power Supply Company of Shandong Electric Power Company)

TU-PM-I-FOR-02

Paper-like FeSiAl/Cellulose nanofiber composite

(#10281)

Jiagen Jiang, Peiheng Zhou, Wenxin Li, Xiaojia Luo, Wanli Chen, Longjiang Deng (University of Electronic Science and Technology of China)

TU-PM-I-FOR-03

Experimental Study of the Properties of Metamaterials Using Broadside-Coupled Split Ring Resonators

(#9451)

Morimichi Itoh (Osaka Research Institute of Science and Technology), Shinichiro Yamamoto (University of Hyogo), Kenichi Hatakeyama (University of Hyogo)

TU-PM-I-FOR-04

ESD Housing Effect

(#9086)

Bruce Zhao (Cisco Systems Inc.)

TU-PM-I-FOR-05

Multibeam RF Antenna Solution for Indoor Coverage in Stadiums

(#9294)

Suzi Seroja (MARA University of Technology)

TU-PM-I-FOR-06

Amplitude Characteristics of Frequency Band-limited LED Emission for Evaluation of Impact on Wireless Medical Telemeter

(#10076)

Sazu Arie (National Institute of Information and Communications Technology(NICT)), Kai Ishida (National Institute of Information and Communications Technology(NICT)), Minoru Hirose (Kitasato University)

TU-PM-I-FOR-07

Electromagnetic Compatibility of Industrial Robots Caused by Power Supply Networks

(#10100)

Sun Tianfei (Chongqing Dexin Robot Testing Center Co.,Ltd)

TU-PM-I-FOR-08

Antenna Diversity Method for Emission Measurements in a Reverberation Chamber

(#10113)

Sang il Kwak (Electronics and Telecommunications Research Institute), Jung-Hwan Hwang (Electronics and Telecommunications Research Institute), Dong-uk Sim (Electronics and Telecommunications Research Institute), Jong-Hwa Kwon (Electronics and Telecommunications Research Institute), Myunghoi Kim (Hankyong National University)

TU-PM-I-FOR-09

Nonlinear dielectric behaviour of semiconductor material under microwave field

(#10159)

Yong Gao, En Li, Gaofeng Guo (University of Electronic Science and Technology of China)

Interactive Forum Sessions – Tuesday Afternoon, 15 May 2018

15 May 2018, Tuesday 1:30-3:30pm
Venue:

TU-PM-I-FOR-10

A Study on Nonlinear Effect of Modulated Radio Signals at 1 kHz on Stimulus Response (#10164)

Hiroki Shinoda, Daisuke Anzai, Jianqing Wang (Nagoya Institute of Technology)

TU-PM-I-FOR-11

Research on Conducted and Radiated Electromagnetic Interference of VSC-HVDC Transmission System (#10175)

Xiuwu Zhang, Weidong Zhang, Bo Xu, Jian Zhang (North China Electric Power University)

TU-PM-I-FOR-12

Efficient Analysis of Switching Noise Suppression of SMPS Boards Using Segmentation Method Valve (#10180)

Myunghoi Kim (Hankyong National University)

TU-PM-I-FOR-13

Differential-Skew Mitigation by Rotating Meshed Ground (#10186)

Chenyu Wang, Kengo Iokibe, Yoshitaka Toyota (Okayama University)

TU-PM-I-FOR-14

Novel Intermodulation Reference for Passive Intermodulation Measurement Calibration (#10187)

Xiong Chen (Xi'an Jiaotong University)

TU-PM-I-FOR-15

A High-efficiency and wideband tunable converter based on a petal metasurface (#10200)

Fengxia Li, Hai-Yan Chen, Yang Zhou, Linbo Zhang, Di-Fei Liang, Haipeng Lu, Jian-Liang Xie, Long-Jiang Deng (University of Electronic Science and Technology of China)

TU-PM-I-FOR-16

Analysis of Some Typical Problems in Electromagnetic Compatibility Testing of An Electric Vehicle (#10213)

Sun Tianfei (Chongqing Dexin Robot Testing Center Co.,Ltd)

TU-PM-I-FOR-17

An EMI Simulation Method of Separating Noise Source and Coupling Path (#10241)

Byungwoong Kim (LG Display)

TU-PM-I-FOR-18

Ultralow-noise isolated switch-mode power supply (#10292)

Yumeng Yang, Yuefei Wang, Xiao Jiang (University of Science and Technology of China)

Interactive Forum Sessions – Tuesday Afternoon, 15 May 2018

15 May 2018, Tuesday 1:30-3:30pm
Venue:

TU-PM-I-FOR-19

Bias-dependent Power Distribution Network Impedance Analysis with MOS Capacitor (#10304)

Dong-Hyun Kim, Subin Kim, Junyong Park, Youngwoo Kim, Sumin Choi, Kyungjun Cho, Jounggho Kim (Korea Advanced Institute of Science and Technology (KAIST))

TU-PM-I-FOR-20

An ultrathin multi-band flexible metamaterial absorber with gradient resistive sheet unit (#10305)

Guorui Zhang, Yang Zhou, Peiheng Zhou, Hai-Yan Chen, Long-Jiang Deng, Di-Fei Liang (University of Electronic Science and Technology of China)

TU-PM-I-FOR-21

Wave modulating for oblique incidence based on coding metasurface (#10313)

Yang Zhou, Guorui Zhang, Peiheng Zhou, Hai-Yan Chen, Di-Fei Liang (University of Electronic Science and Technology of China)

TU-PM-I-FOR-22

Planar Hybrid Common Mode Filter (#10351)

Jens Werner (Jade University of Applied Science), Jan Preibisch (Hamburg University of Technology), Jennifer Schuett (Nexperia)

TU-PM-I-FOR-23

Improving Performance of Shipboard HF Communication Antennas by Antenna Placement (#10618)

Can Bayseferogullari, Mustafa Ural (ASELSAN Inc.)

TU-PM-I-FOR-24

Smart-Tag EMI Comparison under Different Program Skills (#9845)

Cheng-You Chang (Feng Chia University), Shih-Yi Yuan (Feng Chia University), Chia-Hung Su (Electronics Testing Center), Jian-Li Dong (Bureau of Standards, Metrology and Inspection (BSMI))

Interactive Forum Sessions – Wednesday Afternoon, 16 May 2018

16 May 2018, Wednesday 12:00-2:00pm

Venue:

WE-PM-I-FOR-01

Demonstration of Electromagnetic Waves Propagation along Transmission Lines on iPad (#9586)

Eng Leong Tan, Ding Yu Heh (Nanyang Technological University)

WE-PM-I-FOR-02

An Improved Hill Climbing Search Algorithm For ROSA Coupling (#9144)

Yukun Tang (WHUT)

WE-PM-I-FOR-03

Field Generated By The Artificial Ionospheric Modulation Of ELF/VLF Wave On The Sea Surface (#9115)

Zhuhong Lin (Zhejiang University)

WE-PM-I-FOR-04

The Vlf Field Generated By The Loop Antenna In The Ionosphere (#9113)

Hui Ran Zeng (Zhejiang University)

WE-PM-I-FOR-05

A Novel Simulation Method of Passive Intermodulation in Electrically Large-size Reflector Antennas (#9011)

Yun Li (China Academy of Space Technology (Xi'an))

WE-PM-I-FOR-06

The Study of Terahertz Wave Absorption via Preformed laser-induced air plasma (#8657)

Ji Zhao, Xiaofan Zhao (China north Vehicle Insitute Noveri)

WE-PM-I-FOR-07

The Insertion Loss Calculation Research of Multiple Filters in Series and Parallel Connection (#9594)

Lei Zhang, Zhihua Zhao, Jianxuan Li, Jin Meng (Naval University of Engineering)

WE-PM-I-FOR-08

Investigation on the Terminal Response of a Twisted-Wire Pair Excited by EMP (#9537)

Qi-Feng Liu (Science and Technology on EMC Laboratory), Qi Wu (Beijing Hang Kong Hang Tian University), Sheng-quan Zheng (Science and Technology on EMC Laboratory), Yu Zuo (Science and Technology on EMC Laboratory), Li-Tao (Science and Technology on EMC Laboratory)

WE-PM-I-FOR-09

Effects of Package Structure on the Patch Antennas with Different Shapes (#9276)

Xiao Jia Huang, Mei Song Tong (Tongji University)

WE-PM-I-FOR-10

Design of a Broadband LNA for a Ship Receiver System (#9273)

Tong Zhang, Yiting Shuai (China Ship Development and Design Center(CSDDC))

Interactive Forum Sessions – Wednesday Afternoon, 16 May 2018

16 May 2018, Wednesday 12:00-2:00pm

Venue:

WE-PM-I-FOR-11

Sea Water Antenna Electromagnetic Simulation and Design (#8922)

Zhou Liang, Wang Qing, WU Hao, Meng Jin (Navy University of Engineering)

WE-PM-I-FOR-12

Study of Electromagnetic Field Distribution in the Human Body under High Voltage Power Lines (#8812)

He Peng (Ningbo Entry-Exit Inspection and Quarantine Bureau Technical Center of the PR China)

WE-PM-I-FOR-13

Method Of Data Acquisition And Map Generation For Radio Frequency Electromagnetic Fields Exposure Level (#8675)

Rumeng Tan (China Telecom Co., Ltd.), Tong Wu (National Institute of Metrology, China), Kun Zhu (Beijing Safety Test Technology Co., Ltd.), Shaochuan Chen, Senwen Luo (China Telecom Co., Ltd.)

WE-PM-I-FOR-14

Adaptive Wideband Homomorphic Filtering For Electromagnetic Interference Source Imaging Testing System (#9602)

Yanju Zhu, Shuguo Xie (Beihang University)

WE-PM-I-FOR-15

Estimation Of Induced Positions Of External Electromagnetic Fields By The Waveform At Both Ends Of Transmission Line (#9480)

Xiangyu Chen, Toshikazu Sekine, Yasuhiro Takahashi (Gifu University)

WE-PM-I-FOR-16

Analysis of Standing Wave Caused by Intermodulation in Multi-tone Radiated Immunity Tests (#9393)

Jinlong Li, Shiping Ma, Qi Liu, Zeng Gong, Heqing Tian, Shanyi Jin (EMC Laboratory, Shanghai Institute of Measurement and Testing Technology)

WE-PM-I-FOR-17

A LPDA Free-Space Factor Calibration (#9180)

Hironari Tanaka (VCCI Council / Ohtama Calibration Service Co., Ltd.), Hiroyuki Shimano (S-Tech Inc.), Hidenori Muramatsu (VCCI Council)

WE-PM-I-FOR-18

Principle and Electromagnetic Immunity of ADAS Millimeter - wave Radar (#9025)

Yue Zhang, Xu Zhang, Yifu Ding, Li Jiang (China Automotive Technology&Research Center)

WE-PM-I-FOR-19

A Novel Dual Channel Receive Front-end Module With MEMS Technology (#9603)

Yongzhi Zhao, Shaodong Wang (Hebei Semiconductor Research Institute)

WE-PM-I-FOR-20

Broad Frequency Band Lumped Circuit Parameter Extraction Method Based on PEEC (#9332)

Sili Tao, Junping He, Xin Li (Shenzhen Graduate School, Harbin Institute of Technology)

Interactive Forum Sessions – Wednesday Afternoon, 16 May 2018

16 May 2018, Wednesday 12:00-2:00pm
Venue:

WE-PM-I-FOR-21

Dielectric Constant And Loss-Tangent Extraction Using Near-Field Technology And Phase Delay Method (#9110)

Sung-Mao Wu (National University of Kaohsiung)

WE-PM-I-FOR-22

Electromagnetic Emissions from GaN Power IC at Varying Distance and Frequency (#9046)

Vivek Sangwan, Dipesh Kapoor, Cher Ming Tan (Chang Gung University)

WE-PM-I-FOR-23

Emc Laboratory Accreditation (#8603)

Poojita Rao Bhattu (Cisco Systems Inc)

Interactive Forum Sessions – Wednesday Afternoon, 16 May 2018

16 May 2018, Wednesday 3:00-5:00pm

Venue:

WE-PM-II-FOR-01

Analyzing the EMC performance of an Automotive Display Module through 3D Electromagnetic Simulation (#10117)

Lin Biao Wang, Lei Ma, Eng Ann Koh (Continental Automotive Singapore Pte Ltd)

WE-PM-II-FOR-02

Near-Field Scan Technique For Reducing Radiated Emissions In Automotive EMC (#9470)

Andrei Marius Silaghi (University "Politehnica" Timisoara), Aipu Relu (Continental AG Romania), Aldo De Sabata (University "Politehnica" Timisoara), Petre-Marian Nicolae (University of Craiova)

WE-PM-II-FOR-03

The Dispersion Relation Of Surface Plasmon Polaritons Of Metal Bulk (#9931)

Lingxi Hu, Min Hu, Sen Gong, Xiaodong Feng, Tao Zhao, Renbin Zhong, Shenggang Liu (UESTC)

WE-PM-II-FOR-04

Research on EMI Control Techniques of Airborne Power Electronic Equipment (#10194)

Ping Xu, Jiahe Mei, Jiahui Qin (Harbin Engineering University)

WE-PM-II-FOR-05

Design Of Tapered Periodic Meta-Surfaces For Suppressing Edge Electromagnetic Scattering (#9441)

Hai-Yan Chen, Lian-Di Han, Li-Juan Lu, Di-Fei Liang, Xiao-Long Weng, Hai-Peng Lu, Jian-Liang Xie, Long-Jiang Deng (University of Electronic Science and Technology of China)

WE-PM-II-FOR-06

Solution to Range and Velocity Ambiguities Based on Frequency Diversity MIMO Radar (#10275)

Xiang Lan, Min Zhang (Xidian University)

WE-PM-II-FOR-07

Compiler options effect on System-level Near Field EMI (#10046)

Po-Yien Lin (Feng Chia University), Shih-Yi Yuan (Feng Chia University), Chia-Hung Su (Electronics Testing Center), Tzung-Hsien Chen (Bureau of Standards, Metrology & Inspection)

WE-PM-II-FOR-08

The impact of TID effect on EMS of PDSOI Bandgap Reference Circuits (#10327)

ZhiHang An (Beijing Jiaotong University), Binhong Li (Institute of Microelectronics of Chinese Academy of Sciences), Jianfei Wu (National University of Defense Technology)

WE-PM-II-FOR-09

Electromagnetic coupling effects of spacecraft solar panel (#8692)

Bao-Feng Cao, Yi Zheng (Research Institute of chemical defense), Jian-Xun Su (Communication University of China), Xue-Qin Zhang, Xin Li (Research Institute of chemical defense), Lin Quan (Institute of aerospace engineering), Yu Zhou (Aerospace orient red Satellite Co., Ltd.), Shi-Jin Wang (Beijing Tian-gong Ke-yi Radiation Technology Co., Ltd.)

WE-PM-II-FOR-10

Modeling IC Components Based on TLP I-V Curves and Transient Responses from SEED Perspective (#9564)

Yize Wang, Yuan Wang, Guangyi Lu, Gang Du, Xing Zhang, Ru Huang (Peking University)

WE-PM-II-FOR-11

Electromagnetic Scattering Model of the Near Field Waves Induced by a Moving Vessel (#10271)

Letian Wang, Min Zhang, Pengbo Wei (Xidian University)

WE-PM-II-FOR-12

Vibration and Acoustic Noise Emitted by Dry-type Air-core Reactors under PWM Voltage Excitation (#9074)

Jingsong Li (Tsinghua University), Shanming Wang (Tsinghua University), Jianfeng Hong (Tsinghua University), Mengsen Liu (Hebei University of Technology), Hezhe Gao (Hebei University of Technology)