



2018

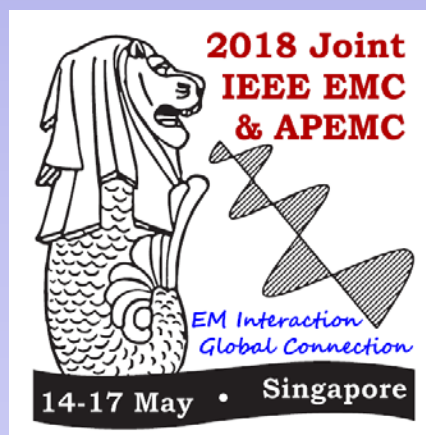
*Joint IEEE International Symposium  
on Electromagnetic Compatibility  
& Asia-Pacific International Symposium  
on Electromagnetic Compatibility*

# 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** **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 (I)	TM-02: EMC in Railway Systems (I)	TC-02: EMC Measurement (I)	TC-09: Computational Electromagnetics (I)	TC-12: EMC for Emerging Wireless Technology (I)	TM-04: EMC in Power Electronics and Smart Grid (I)		
	10:10am 10:30am		Tea Break							
	10:30am 12:30pm	AM-II	<p style="text-align: center;"><b>Opening Ceremony for 2018 Joint IEEE EMC &amp; APEMC</b>  <i>Venue: Summit 2, Level 3</i>  <i>Chairs: Er-Ping Li, Symposium President; En-Xiao Liu, Symposium General Chair</i>  <b>Plenary Talk I:</b> Chromebooks, USB-C and Google PI/SI Research  <i>Mark Hayter, Director, Google, USA</i>  <b>Plenary Talk II:</b> Frontiers in Computational Time Reversal for Electromagnetic Synthesis  <i>Wolfgang Hoefer, University of Victoria, Canada</i></p>							
	12:30pm 01:30pm		Lunch							
	01:30pm 03:30pm	PM-I	TC-10: SI/PI (II)	SS-07: Aerospace EMC	SS-10: Techniques & Measures to Manage Risks With Regard to EM Disturbances	TC-09: Computational Electromagnetics (II)	SS-05: Potential Electromagnetic Techniques for Booming Wireless Communications (I)	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 (I)	SS-08: Simulation and testing for Automotive EMC (I)	SS-12: Electromagnetic Shielding Technology for Mobile Devices	TC-04: EMI Control Methods	SS-05: Potential Electromagnetic Techniques for Booming Wireless Communications (II)	TC-05: Lightning and System Protection	Experiment & Demo Session I		
06:30pm 09:00pm										

# TECHNICAL PROGRAM AT A GLANCE

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

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 (III)	TC-06: Spectrum	TC-09: CEM and EMI	TC-09: Computational Electromagnetics (III)	SS-04: Emerging Technologies and EMC	SS-13: EMC Issues Related to Common-mode Noise		<b>Open</b>	
	10:10am 10:30am		Tea Break								
	10:30am 12:30pm	AM-II	TC-10: SI/PI (IV)	SS-03: Wireless Technology and Wireless Power Transfer (I)	TC-02: EMC Measurement (II)	<b>Plenary Talk III: Marriage of Computational Electromagnetics and Electromagnetic Compatibility</b> <i>Weng Cho Chew, Purdue University, USA</i> <b>Plenary Talk IV: Planar EBG Structures for PI/SI Applications &amp; Common Mode Filtering</b> <i>Antonio Orlandi, University of L'Aquila, Italy</i> Time: 11:00am – 12:30pm			12:00pm-2:00pm		
	12:30pm 01:30pm		Lunch								
	01:30pm 03:30pm	PM-I	TM-01: IC EMC (II)	SC-07: Aeronautics and Space EMC	SS-09: Hardware Security for IoT Devices (I)	TC-04: EMI	TC-12: EMC for Emerging Wireless Technology (II)	SS-01: EMC for Wind Farms and Solar PV Plants			3:00pm-5:00pm
	03:30pm 04:00pm		Tea Break								
	04:00pm 05:20pm	PM-II	TM-05: Biomedical Electromagnetic (I)	SS-08: Simulation and testing for Automotive EMC (II)	SS-11: Advance measurement technologies for 5G (I)	TC-09: Computational Electromagnetics (IV)	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 (II)	TM-02: EMC in Railway Systems (II)	SS-11: Advance measurement technologies for 5G (II)	TM-03: Efficient and Accurate Simulation of Multi-Scale EMC & SI/PI Problems (I)	SS-05: Potential Electromagnetic Techniques for Booming Wireless Communications (III)	TM-04: EMC in Power Electronics and Smart Grid (II)		<b>Open</b>	
	10:10am 10:30am		Tea Break								
	10:30am 12:30pm	AM-II	TC-10: SI/PI (V)	SS-03: Wireless Technology and Wireless Power Transfer (II)	SS-09: Hardware Security for IoT Devices (II)	TM-03: Efficient and Accurate Simulation of Multi-Scale EMC & SI/PI Problems (II)	SS-05: Potential Electromagnetic Techniques for Booming Wireless Communications (IV)	TM-04: EMC in Power Electronics and Smart Grid (III)			
	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 (III)	TM-03: Efficient and Accurate Simulation of Multi-Scale EMC & SI/PI Problems (III)	SS-06: Design and Modeling of Emerging EM Components and Devices (I)	TC-05: Electrostatic Discharge and Arcs		<b>Closing</b>	
	03:30pm 03:50pm		Tea Break								
	03:50pm 05:30pm	PM-II	TC-10: SI/PI (VI)	TC-04: EMI/EMC	TC-01/02/03: EMC Management, Measurement and Environment	TM-03: Efficient and Accurate Simulation of Multi-Scale EMC & SI/PI Problems (IV)	SS-06: Design and Modeling of Emerging EM Components and Devices (II)	TC-07: Low Frequency 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 (I) <i>Chair(s): Chunfei Ye (Intel, USA) Kye-Yak See (Nanyang Technological Univ., Singapore)</i>	TM-02: EMC in Railway Systems (I) <i>Chair(s): Sergio Amedeo Pignari (Politecnico di Milano, Italy) Kai Sang Lock (Singapore Inst. of Technology)</i>	TC-02: EMC Measurements (I) <i>Chair(s): Vignesh Rajamani (Exponent, USA) Yongxin Guo (National Univ. of Singapore)</i>
08:30am	TU-AM-I-TC-10-1 <b>Eye-Diagram Estimation with Stochastic Model for 8B10B Encoded High-Speed Channel (#8768)</b> <i>Junyong Park, Dong-Hyun Kim, Youngwoo Kim, Sumin Choi, Joungho Kim (Korea Advanced Inst. of Science and Technology )</i>	TU-AM-I-TM-02-1 <b>Research on Electromagnetic Radiation of Xijiang Traction Substation (#8766)</b> <i>Xiaohu Zeng, Hong Ma, Congzhi Pi, Peng Yang (Huazhong Univ. of Science &amp; Technology), Shun Yan, Shaohua Yuan, Jianfeng Shi, Yuming Zhang (China Railway Siyuan Survey and Design Group Co., Ltd), Lin Ma, Shuping Pang (Wuhan RF Spectrum Information Technology Co., Ltd)</i>	TU-AM-I-TC-02-1 <b>Analysis on the Adaptability of the International Radiation Immunity Test Method to Intelligent Connected Vehicle (#8729)</b> <i>Yifu Ding, Guangyu Zhang, Zhiguo Zhang, Xu Zhang, Yue Zhang (China Automotive Technology and Research Center)</i>
08:50am	TU-AM-I-TC-10-2 <b>1:4 Tree Microstrip Interconnect Kron-Branin Model (#8776) ★BEST SI/PI PAPER FINALIST★</b> <i>Blaise Ravelo (Normandy Univ. UNIROUEN), Olivier Maurice (Ariane Group)</i>	TU-AM-I-TM-02-2 <b>Practical Considerations of Human Exposure in Railway Systems (#8827)</b> <i>Shinichi Sadamitsu (Mitsubishi Heavy Industries, Ltd, Japan), Peter Sai-Wing Leung (City Univ. of Hong Kong), Tony W K LO (EMC Consortium Limited), Weinong Sun (City Univ. of Hong Kong)</i>	TU-AM-I-TC-02-2 <b>Impacts to Measurement Uncertainty of Radiated EMI Measurement by Setting Terminating Condition of AC Mains Cable Leaving from Test Area (#8814)</b> <i>Kunihiro Osabe (VCCI Council), Nobuo Kuwabara (Kyushu Inst. of Technology), Hidenori Muramatsu (VCCI Council)</i>
09:10am	TU-AM-I-TC-10-3 <b>Noise Coupling Analysis for High Speed Differential Trace Crossing Switching Voltage Regulator Area (#8783)</b> <i>Yang Wu, Zhongfu Ji, Jiang Wang, Wenbin Ma (Cisco Systems)</i>	TU-AM-I-TM-02-3 <b>Induced Voltage Study and Measurement for Communication System in Railway (#9892)</b> <i>Yang Li, Chin Hian Leow, Wee Leong Lau (ST Electronics (Info-Comm Systems) Pte Ltd), Meng Chuan Kelvin Ong (Land Transport Authority)</i>	TU-AM-I-TC-02-3 <b>A Lumped Model of the Rod Antenna Measurement Setup for Automotive and Military Testing (#8820) ★BEST EMC PAPER FINALIST★</b> <i>Carlo Carobbi (Univ. of Florence)</i>
09:30am	TU-AM-I-TC-10-4 <b>Enabling the Next Generation USB 3.1 (Gen 2) in Mobile Devices (#8832)</b> <i>Nitin Srivastava, Antonio Ciccomancini Scogna, Hwanwoo Shim (Samsung Electronics)</i>	TU-AM-I-TM-02-4 <b>Research on stray current distribution of Metro based on Numerical Simulation (#9577)</b> <i>Yanhua Lin (Beijing Jiaotong Univ.), Kunpeng Li (Guangzhou Metro Design&amp;Research Inst. Co. Ltd), Mengmeng Su (Beijing Jiaotong Univ.), Yongchang Meng (Tsinghua Univ.)</i>	TU-AM-I-TC-02-4 <b>Investigation of Leveling Methods in Military Susceptibility Testing (#8963)</b> <i>Soydan Cakir, Osman Sen, Mehmet Cinar, Mustafa Cetintas (TUBITAK UME)</i>
09:50am	TU-AM-I-TC-10-5 <b>Ceramic Interconnect Bridge for Heterogeneous Multiple Chip Packaging (#9923)</b> <i>Boping Wu (Huawei Technologies)</i>	TU-AM-I-TM-02-5 <b>EMC Environmental Survey of Railway Systems (#10110)</b> <i>Patrick Wong, Tony W K LO (EMC Consortium Limited, Hong Kong), Richard Fung, Kam Chuen Lee (Hong Kong Standards and Testing Centre)</i>	TU-AM-I-TC-02-5 <b>Risk Assessment and Mitigation for the Hazards of Electromagnetic Radiation to Fuel during High Intensity Radiated Field Testing of Aircraft (#9061)</b> <i>Adrian Monk, Timothy Duggan (RF Design, Test and Evaluation Group, QinetiQ)</i>



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

Rooms	Room #334	Room #335	Room #336
08:30am – 10:10am	<p>TC-09: Computational Electromagnetics (I)</p> <p>Chair(s): <i>Francesca Maradei (Sapienza Univ., Italy)</i></p>	<p>TC-12: EMC for Emerging Wireless Technology (I)</p> <p>Chair(s): <i>Lijun Jiang (Hong Kong Univ., China)</i> <i>Dheena Moongilan (Nokia Bell Labs, USA)</i></p>	<p>TM-04: EMC in Power Electronics and Smart Grid (I)</p> <p>Chair(s): <i>Henglin Chen (Zhejiang Univ., China)</i> <i>Flavia Grassi (Politecnico di Milano, Italy)</i></p>
08:30am	<p>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) <i>Weilun Kwek (Univ. of Michigan), Kung-Hau Ding (Wright-Patterson AFB), Tien-Hao Liao (California Inst. of Technology), Leung Tsang (Univ. of Michigan)</i></p>	<p>TU-AM-I-TC-12-1 3D Coverage Optimization Rereasch on 5G Massive MIMO Antenna Array (#9012) <i>Feng Gao (China Mobile Group Design Inst. Co., Ltd.), Runhong Shan (Copyright Protection Center of China), Wenyu Su (China Putian Corperation), Wentao Zhu (China Mobile Group Design Inst. Co., Ltd.), Kai He (China Mobile Group Design Inst. Co., Ltd.), Lifang Wang (China Mobile Group Design Inst. Co., Ltd.)</i></p>	<p>TU-AM-I-TM-04-1 A Comprehensive Investigation on Conducted EMI Reduction for Variable Switching Frequency PWM (#8896) <i>Jianan Chen, Dong Jiang, Xuan Zhao (Huazhong Univ. of Science and Technology)</i></p>
08:50am	<p>TU-AM-I-TC-09-2 Inductor Modeling with Huygens's Equivalent Model To Estimate Coupling Noise (#9214) <i>Chen-Jun Liu, Gezi Zhang, Xuequan Yu (Huawei Technologies Co. Ltd.)</i></p>	<p>TU-AM-I-TC-12-2 Digital-Domain Assisted RF Cancellation of Nonlinear Wideband Self-Interference for Co-site Wireless Communication Systems (#9052) <i>Songhu Ge, Jin Meng, Jinling Xing, Jian Tang, and Chuanjie Gou (Naval Univ. of Engineering)</i></p>	<p>TU-AM-I-TM-04-2 Active-Common-Mode-Cancellation (#9206) <i>Stephan Cordes, Frank Klotz (Infineon Technologies AG)</i></p>
09:10am	<p>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) <i>Silvano Cruciani, Tommaso Campi (Univ. of L'Aquila), Francesca Maradei (Sapienza Univ.), Mauro Feliziani (Univ. of L'Aquila)</i></p>	<p>TU-AM-I-TC-12-3 An Experimental Study of WiFi Performance Impact Due to SSC Spread-Percentage and Modulation Frequency (#9095) ★BEST EMC PAPER FINALIST★ <i>Kae-An Liu, Jaejin Lee, Hao-Han Hsu, Chung-Hao Chen (Intel Corporation)</i></p>	<p>TU-AM-I-TM-04-3 Design of an Active EMI Filter for Bearing Current Elimination in VFD (#9296) <i>Anagha E R, Nisha P V, Sindhu T K (National Inst. of Technology Calicut)</i></p>
09:30am	<p>TU-AM-I-TC-09-4 Analysis of Field-to-Transmission Line Coupling inside a Reverberation Chamber based on Mode Expansion Method (#9584) <i>Yuan Zhao (Sichuan Univ.), Qiang Liu (Inst. of Applied Physics and Computation Mathematics), Xiang Zhao, Liping Yan, Changjun Liu (Sichuan Univ.), Haijing Zhou (Inst. of Applied Physics and Computation Mathematics), Kama Huang (Sichuan Univ.)</i></p>	<p>TU-AM-I-TC-12-4 Radiated Immunity Field Uniformity Enhancement Techniques for Millimeter Wave Frequencies (#9231) <i>Dheena Moongilan (Nokia Bell Labs)</i></p>	<p>TU-AM-I-TM-04-4 Analysis of CM EMI Reduction with Zero CM Modulation Scheme Utilizing Paralleled Inverters (#8904) <i>Zewei Shen, Dong Jinag, Yechi Zhang (Huazhong Univ. of Science and Technology)</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 Univ.), Dong Gun Kam (Ajou Univ.), Heinz-D. Brüns (Hamburg Univ. of Technology), Christian Schuster (Hamburg Univ. of Technology)</i></p>	<p>TU-AM-I-TC-12-5 Radio Frequency Interference Estimation Using Transfer Function Based Dipole Moment Model (#9494) ★BEST EMC PAPER FINALIST★ <i>Qiaolei Huang, Yuanzhuo Liu, Liang Li, Yansheng Wang, Chunyu Wu, Jun Fan (Missouri Univ. 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 (Univ. of Sousse), Jaleleddine Ben Hadj Slama (Univ. of Paris Saclay), Lionel Pichon (Univ. of Sousse)</i></p>

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

Rooms	Room #331	Room #332	Room #333
01:30pm – 03:30pm	<p>TC-10: SI/PI (II)</p> <p>Chair(s): Zhiping Yang (Google, USA) Ram Achar (Carleton Univ., Canada)</p>	<p>SS-07: Aerospace EMC (Supported by SC-07)</p> <p>Chair(s): Robert Scully (NASA, USA) Flavia Grassi (Politecnico di Milano, Italy)</p>	<p>SS-10: Techniques &amp; Measures to Manage Risks with Regard to EM Disturbances</p> <p>Chair(s): Keith Armstrong (Cherry Clough Consultants Ltd, UK) Andy Degraeve (KU Leuven, Belgium)</p>
01:30pm	<p>TU-PM-I-TC-10-1</p> <p>Floorplanning and Pin Assignment Co-Optimization for 3D Integrated Circuit Using Simulated Annealing (#8998)</p> <p>Quan-Chao Su, Mu-Shui Zhang, Yi-Fei He, Hai-Ying Zhu (Sun Yat-Sen Univ.)</p>	<p>TU-PM-I-SS-07-1</p> <p>EMC aspects of compact wiring for future aircraft (#9673)</p> <p>Jesper Lansink Rotgerink, Harmen Schippers, Jaco Verpoorte (Netherlands Aerospace Centre), Kees Nuyten (Fokker Elmo)</p>	<p>TU-PM-I-SS-10-1</p> <p>Risk Management of Electromagnetic Disturbances (#10399)</p> <p>Keith Armstrong (Cherry Clough Consultants Ltd), Davy Pissoort, Andy Degraeve, Jonas Lannoo (KU Leuven, Bruges Campus)</p>
01:50pm	<p>TU-PM-I-TC-10-2</p> <p>Estimation and Analysis of Crosstalk Effects in High-Bandwidth Memory Channel (#10422)</p> <p>Sumin Choi (KAIST), Heegon Kim (Missouri Univ. of Science and Technology), Junyong Park, Dong-Hyun Kim, Daniel H. Jung, Jaemin Lim, Kyungjun Cho, Joungho Kim (KAIST)</p>	<p>TU-PM-I-SS-07-2</p> <p>Development of Spacecraft Radiated Susceptibility RS103 Requirements From Modeling Methods (#10360)</p> <p>Pablo S. Narvaez, Nacer E. Chahat, Edward C. Gonzales (Jet Propulsion Laboratory)</p>	<p>TU-PM-I-SS-10-2</p> <p>Reducing Functional Safety and Other Risks Due to EM Disturbances: IEEE Standard 1848 (#10398)</p> <p>Keith Armstrong (Cherry Clough Consultants Ltd), Davy Pissoort, Andy Degraeve, Jonas Lannoo (KU Leuven, Bruges Campus)</p>
02:10pm	<p>TU-PM-I-TC-10-3</p> <p>Placement of Decoupling Capacitors on Power Transmission Lines (#9039)</p> <p>Ihsan Erdin (Celestica Inc.), Ram Achar (Carleton Univ.)</p>	<p>TU-PM-I-SS-07-3</p> <p>FFT-Based Time Domain Solution to Power Frequency Issue of CS101 Testing for Military and Aerospace Equipment (#9902)</p> <p>Soydan Cakir, Mesut Ozturk, Bahadir Tektas, Osman Sen, Savas Acak (TUBITAK UME), Marc Pous (Universitat Politècnica de Catalunya)</p>	<p>TU-PM-I-SS-10-3</p> <p>EMI Risk Analysis via Dedicated Evaluation of the Susceptibility of Medical Devices (#10321)</p> <p>Wuwus Ardiatna (Indonesian Inst. of Sciences), Dwi Mandaris (Univ. of Twente), Aditia Nur Bakti, Siddiq Wahyu Hidayat (Indonesian Inst. of Sciences), Frank Leferink (Univ. of Twente and THALES, Netherlands.)</p>
02:30pm	<p>TU-PM-I-TC-10-4</p> <p>Extended Unterminated Line (EUL) for Accurate and Efficient Crosstalk Measurement (#9084)</p> <p>Xiaoning Ye, Albert Sutono, Dazhao Liu, Varun Gupta (Intel Corporation)</p>	<p>TU-PM-I-SS-07-4</p> <p>On the Interference of Wired Serial Communication Links by Time Domain Interference (#10353)</p> <p>Michael Basford, Christopher Smartt, Stephen Greedy, Dave Thomas (Univ. of Nottingham)</p>	<p>TU-PM-I-SS-10-4</p> <p>Study on the Use of Different Transmission Line Termination Strategies to Obtain EMI-Diverse Redundant Systems (#10201)</p> <p>Jonas Lannoo, Andy Degraeve, Dries Vanoost, Jeroen Boydens, Davy Pissoort (KU Leuven, Bruges Campus)</p>
02:50pm	<p>TU-PM-I-TC-10-5</p> <p>De-embedding Comparisons of 1X-Thru SFD, 1-Port AFR, and 2X-Thru SFD (#9628)</p> <p>Yuan Chen, Bichen Chen, Jiayi He (Missouri Univ. of Science &amp; Technology), Richard Zai (PacketMicro. Inc.), Jun Fan, James Drewniak (Missouri Univ. of Science &amp; Technology)</p>	<p>TU-PM-I-SS-07-5</p> <p>Advanced Models for the Transfer Impedance of Metal Braids in Cable Harnesses (#9915)</p> <p>Jaco Verpoorte, Harmen Schippers, Jesper Lansink Rotgerink (Netherlands Aerospace Centre)</p>	<p>TU-PM-I-SS-10-5</p> <p>Effectiveness of Inversion Diversity to Cope with EMI within a Two-Channel Redundant System (#10216)</p> <p>Jonas Lannoo, Andy Degraeve, Dries Vanoost, Jeroen Boydens, Davy Pissoort (KU Leuven, Bruges Campus)</p>
03:10pm		<p>TU-PM-I-SS-07-6</p> <p>Effect of Electron Density in Multipaction on the Electromagnetic Characteristics of Microwave Device (#9877)</p> <p>Xinbo Wang, Wanzhao Cui, Yongdong Li, Xiaoning Zhang, Chunliang Liu (National Key Laboratory of Science and Technology on Space Microwave)</p>	<p>TU-PM-I-SS-10-6</p> <p>Extending the Normal Immunity Tests to Help Prove Functional Safety (#10400)</p> <p>Keith Armstrong (Cherry Clough Consultants Ltd), Bill Radasky (Metatech Corporation)</p>

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

Rooms	Room #334	Room #335	Room #336
01:30pm – 03:30pm	<p>TC-09: Computational Electromagnetics (II)</p> <p>Chair(s): Lijun Jiang (Hong Kong Univ., China) Eng Leong Tan (Nanyang Technological Univ., Singapore)</p>	<p>SS-05: Potential Electromagnetic Techniques for Booming Wireless Communications (I)</p> <p>Chair(s): Hsi-Tseng Chou (National Taiwan Univ.) Ding-Bing Lin (National Taiwan Univ. of Science and Technology)</p>	<p>TC-05: EM Information Leakage</p> <p>Chair(s): Yuichi Hayashi (Nara Inst. of Science and Technology, Japan) William Radasky (Metatech Corporation, USA)</p>
01:30pm	<p>TU-PM-I-TC-09-1</p> <p><b>Influence of Coupling Coefficient on Transmission and Reflection Zeros of Open-Ended Coupled Ideal Stubs (#8775)</b></p> <p>Blaise Ravelo (Normandy Univ. UNIROUEN )</p>	<p>TU-PM-I-SS-05-1</p> <p><b>Time-Domain Electromagnetic Field Analysis based on Discrete Time Signal Expansion and its Relation to Frequency Domain Banded Signals (#9071)</b></p> <p>Hsi-Tseng Chou (National Taiwan Univ.)</p>	<p>TU-PM-I-TC-05-1</p> <p><b>Fundamental Study on Non-invasive Frequency Injection Attack against RO-based TRNG (#10168)</b></p> <p>Saki Osuka, Daisuke Fujimoto, Yuichi Hayashi (Nara Inst. of Sci. and Techno.), Naofumi Homma (Tohoku Univ.), Arthur Beckers, Josep Balasch, Benedikt Gierlich, Ingrid Verbauwheide (KU Leuven)</p>
01:50pm	<p>TU-PM-I-TC-09-2</p> <p><b>Invasive Weed Optimized Planar Elliptical Dipole Antenna for Ultra-Wideband EMC Applications (#9675)</b></p> <p>★BEST EMC PAPER FINALIST★</p> <p>Emmanouil Tziris (Brunel Univ.), Pavlos Lazaridis (Univ. of Huddersfield), John Cosmas (Brunel Univ.), Ian Glover, Keyur Mistry (Univ. of Huddersfield), Zaharias D. Zaharis, Thomas Xenos (Aristotle Univ. of Thessaloniki)</p>	<p>TU-PM-I-SS-05-2</p> <p><b>Mathematic Subarray Decomposition to Compose the Radiation of Electrically Large Phased Array of Antennas with Limited Excitation Power in Measurement (#9267)</b></p> <p>Shih-Chung Tuan (Oriental Inst. of Technology), Hsi-Tseng Chou (National Taiwan Univ.), Hao-Ju Huang, Dun-Yuan Cheng (Yuan Ze Univ.)</p>	<p>TU-PM-I-TC-05-2</p> <p><b>Study on the Effect of Clock Rise Time on Fault Occurrence under IEMI (#10287)</b></p> <p>Naoto Saga, Takuya Itoh (Tohoku Univ.), Yuichi Hayashi (Nara Inst. of Science and Technology), Takaaki Mizuki, Hideaki Sone (Tohoku Univ.)</p>
02:10pm	<p>TU-PM-I-TC-09-3</p> <p><b>Feasibility of Uncertainty Quantification for Power Distribution Network Modeling Using PCE and a Contour Integral Method (#8809)</b></p> <p>David Dahl, Oemer Faruk Yildiz, Eduard Frick, Christian Seifert, Marko Lindner, Christian Schuster (Hamburg Univ. of Technology)</p>	<p>TU-PM-I-SS-05-3</p> <p><b>An Introduction to MIMO Antenna Array Designs for Future 5G Smartphone Applications (#9702)</b></p> <p>Chow-Yen-Desmond Sim, Chih-Heng Lin, Heng-Yu Liu (Feng Chia Univ.)</p>	<p>TU-PM-I-TC-05-3</p> <p><b>Data Injection Attacks Using a Hardware Trojan on a Transmission Line (#10116)</b></p> <p>Shugo Kaji (Nara Inst. of Science and Techno.), Masahiro Kinugawa (National Inst. of Techno., Sendai College), Daisuke Fujimoto, Yuichi Hayashi (Nara Inst. of Science and Technology)</p>
02:30pm	<p>TU-PM-I-TC-09-4</p> <p><b>An Iterative Finite Element Boundary Integral-Physical Optics Method for Analyzing Shielding Effectiveness of a Cavity Above Large Platform (#9544)</b></p> <p>Yang Liu, Yu-Teng Zheng, Haijing Zhou (Inst. of Applied Physics and Computational Mathematics)</p>	<p>TU-PM-I-SS-05-4</p> <p><b>RFI Suppression and Throughput Improvement of WiFi Performance with Graphene Coating for Converging Mobile Device (#8976)</b></p> <p>Cheng-Hau Wu (Feng Chia Univ.)</p>	<p>TU-PM-I-TC-05-4</p> <p><b>HT-detection Method Based on Impedance Measurements of ICs (#10162)</b></p> <p>Shota Nin, Daisuke Fujimoto, Yuichi Hayashi (Nara Inst. of Science and Technology), Noriyuki Miura, Makoto Nagata (Kobe Univ.), Tsutomu Matsumoto (Yokohama National Univ.)</p>
02:50pm	<p>TU-PM-I-TC-09-5</p> <p><b>The Calculation of Quantum Radar Scattering Characteristic for the 3D Circular Cone Target (#8761)</b></p> <p>Chonghua Fang (Science and Technology on Electromagnetic Compatibility Laboratory, China Ship Development and Design Centre)</p>	<p>TU-PM-I-SS-05-5</p> <p><b>A New Uniformity-Enhanced Double Ridged Horn Antenna for Radiated Susceptibility Test from 1 GHz to 18 GHz (#9384)</b></p> <p>Tsung-Ching Lin, Chih-Hung Lee (Electron. Testing Center), Jian-Li Dong (BSMI), Cheng-Nan Chiu (Yuan Ze Univ.), Ding-bing Lin (National Taiwan Univ. of Sci. &amp; Techno.), Hsin-Piao Lin (National Taipei Univ. of Techno.)</p>	<p>TU-PM-I-TC-05-5</p> <p><b>EM Security Analysis of Compact ECDSA Hardware (#10089)</b></p> <p>Kosuke Koiwa (Tohoku Univ.), Daisuke Fujimoto, Yuichi Hayashi (Nara Inst. of Sci. &amp; Techno.), Makoto Nagata (Kobe Univ.), Makoto Ikeda (Univ. of Tokyo), Tsutomu Matsumoto (Yokohama National Univ.), Naofumi Homma (Tohoku Univ.)</p>
03:10pm		<p>TU-PM-I-SS-05-6</p> <p><b>E-Band Multi-Layer Full-Corporate-Feed Waveguide Slot Array Antenna (#9341)</b></p> <p>Derry Permana Yusuf, Hsi-Tseng Chou (National Taiwan Univ.)</p>	<p>TU-PM-I-TC-05-6</p> <p><b>A Study on an Evaluation Method for EM Information Leakage Utilizing Controlled Image Displaying (#10363)</b></p> <p>Ryota Birukawa, Gentaro Tanabe, Yu-ichi Hayashi, Takaaki Mizuki, Hideaki Sone (Tohoku Univ.)</p>



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

Rooms	Room #331	Room #332	Room #333
04:00pm – 06:00pm	<b>TM-01: IC EMC (I)</b> Chair(s): <i>Fabian Vargas (Catholic Univ. – PUCRS, Brazil)</i> <i>Sonia Ben Dhia (LAAS CNRS, France)</i>	<b>SS-08: Simulation and Testing for Automotive EMC (I)</b> Chair(s): <i>Sergio Amedeo Pignari (Politecnico di Milano, Italy)</i>	<b>SS-12: EM Shielding Technology for Mobile Devices</b> Chair(s): <i>Hyunho Park (Univ. of Suwon, South Korea)</i> <i>Chulsoon Hwang (Missouri Univ. of Science and Technology, USA)</i>
04:00pm	<b>TU-PM-II-TM-01-1</b> <b>Systematic Analysis of ESD-Induced Soft-Failures As A Function of Operating Conditions (#9271)</b> <i>Omid Hoseini Izadi, Ahmad Hosseinbeig, David Pommerenke (Missouri Univ. of Science and Technology), Hideki Shumiya, Junji Maeshima, Kenji Araki, (Sony GM&amp;O Corp.)</i>	<b>TU-PM-II-SS-08-1</b> <b>Analysis of the Galvanic Coupling of DC-Link Capacitors in a High-Voltage Bus of an Electric Car (#8582)</b> <i>Mathias Magdowski, Ralf Vick (Otto-von-Guericke Univ.), Martin Obholz (Volkswagen AG)</i>	<b>TU-PM-II-SS-12-1</b> <b>Effect of Contact Resistance on Conformal Shield Package for Mobile DRAM (#10021)</b> <i>Jungho Jin, Choongpyo Jeon, Byounggug Min, Heonsang Lim, and Jungki Kim (Samsung Electronics)</i>
04:20pm	<b>TU-PM-II-TM-01-2</b> <b>Measurement of the Susceptibility to EMI of ICs with Two-Tone Interference (#9918)</b> <i>Franco Fiori, Marco Brignone Aimonetto (Politecnico di Torino)</i>	<b>TU-PM-II-SS-08-2</b> <b>Prediction of Common Mode Current in Cable Harnesses (#9656)</b> <i>Tamar Makharashvili, Tamar Makharashvili, Sameer Arun Walunj, Ruijie He, Brian Booth, Kerry Martin, Chulsoon Hwang, Daryl Beetner (Missouri Univ. of Science and Technology)</i>	<b>TU-PM-II-SS-12-2</b> <b>Optimized FPC Design with EMI Film (#9335)</b> <i>Liang-Yu Shih, Hank Lin, Chung-Han Tsai, Bin-Chyi Tseng (ASUSTek Computer Inc.)</i>
04:40pm	<b>TU-PM-II-TM-01-3</b> <b>Emission Reduction with Spread Spectrum Clocking for Switched Capacitor Buck Converter (#10223)</b> <i>Volha Subotskaya (Infineon Technologies AG), Kyrilo Cherniak (Infineon Technologies AG), Klaus Hoermaier (Infineon Technologies AG), Bernd Deutschmann (Graz Univ. of Technology)</i>	<b>TU-PM-II-SS-08-3</b> <b>Modeling and Evaluation of Common-mode Interference Coupling Effects on Sensitive Cable in Motor Drive System (#9899)</b> <i>Tao Wang, Kaikai Chen, Zhichao Zheng, Henglin Chen (Zhejiang Univ.)</i>	<b>TU-PM-II-SS-12-3</b> <b>Embedded Multilayer Interleaved Comb Capacitor for Package-level EMI Protection (#9936)</b> <i>Hai Au Huynh, YoungBong Han (Sungkyunkwan Univ.), Jisoo Hwang, Eunseok Song (Samsung Electronics), SoYoung Kim (Sungkyunkwan Univ.)</i>
05:00pm	<b>TU-PM-II-TM-01-4</b> <b>Analysis of Conducted-EMI Noise Influence on the Effectiveness of an EDAC Technique to Mitigate Soft Errors in Ionizing Radiation Environment (#10254)</b> <i>Roger Goerl, Fabian Vargas (Catholic Univ. - PUCRS), Nilberto H. Medina, Nemitala Added, Vitor A. P. de Aguiar (Sao Paulo Univ.), Marcilei A. G. da Silveira (Centro Univer. – FEI), Paulo Villa, Eduardo Bezerra (Federal Univ. of Santa Catarina)</i>	<b>TU-PM-II-SS-08-4</b> <b>EMC Simulation of Automotive Ethernet Systems (#9319)</b> <i>Andreas Barchanski, Matthias Tröscher (CST - Computer Simulation Technology GmbH)</i>	<b>TU-PM-II-SS-12-4</b> <b>Shielding Effectiveness Estimation for Shielding Box Having Unknown Aperture (#9840)</b> <i>Jung-Hwan Hwang (Electronics &amp; Telecom. Research Inst.), Hyun Ho Park (Univ. of Suwon), Sang-il Kwak, Dong-wook Sim, Jong-Hwa Kwon (Electronics &amp; Telecom. Research Inst.)</i>
05:20pm	<b>TU-PM-II-TM-01-5</b> <b>Modeling the Internal Activity of a FPGA for Conducted Emission Prediction Purpose (#10265)</b> <i>Chaimae Ghfiri (IRT SAINT EXUPERY), Alexandre Boyer, Sonia Ben Dhia (LAAS CNRS), Andre Durier (IRT SAINT EXUPERY), Christian Marot (AIRBUS)</i>	<b>TU-PM-II-SS-08-5</b> <b>Analysis of Electromagnetic wave in Automotive Cabin Using Complex Poynting's Theorem (#10215)</b> <i>Shinji Fukui, Noboru Maeda (Soken, Inc.), Fengchao Xiao (Univ. of Electro-Communications), Yoshio Kami (Univ. of Electro-Communications)</i>	<b>TU-PM-II-SS-12-5</b> <b>Fast Evaluation of Low Frequency Near Field Magnetic Shielding Effectiveness (#9763)</b> <i>Fethi Benyoubi (Univ. of Nantes), Lionel Pichon, Mohamed Bensetti, Yann Le Bihan (Group of Electrical Engineering Paris), Mouloud Feliachi (Univ. of Nantes)</i>
05:40pm	<b>TU-PM-II-TM-01-6</b> <b>Fault State Behaviour of Smart Power Devices During Electromagnetic Interference (#10341)</b> <i>Bernd Deutschmann, Paul Kastner, Gunter Winkler (Graz Univ. of Technology)</i>	<b>TU-PM-II-SS-08-6</b> <b>Dynamic EMI Characteristic Analysis of Vehicle Electric-drive System operated in Multi-operation Conditions (#9337)</b> <i>Ying Xiong, Xiaolin Du, Chunming Li and Xiaofan Zhao (China North Vehicle Research Inst.)</i>	

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

Rooms	Room #334	Room #335	Room #336
04:00pm – 06:00pm	TC-04: <b>EMI Control Methods</b> <i>Chair(s): John G. Kraemer (Rockwell Collins, USA)</i> <i>Arokiaswami Alphones (Nanyang Technological Univ., Singapore)</i>	SS-05: Potential <b>Electromagnetic Techniques for Booming Wireless Communications (II)</b> <i>Chair(s): Hsi-Tseng Chou (National Taiwan Univ.)</i> <i>Ding-Bing Lin (National Taiwan Univ. of Science and Technology)</i>	TC-05: Lightning and System Protection <i>Chair(s): Yoshihiro Baba (Doshisha Univ., Japan)</i> <i>W. H. Siew (Univ. of Strathclyde, Scotland)</i>
04:00pm	TU-PM-II-TC-04-1 <b>Electromagnetic Resonance Analysis of a Shielding Enclosure with Apertures Excited by a Plane Wave (#9193)</b> <i>Bao-Lin Nie, Pei Xiao, Ping-An Du (Univ. of Electronic Science and Technology of China)</i>	TU-PM-II-SS-05-1 <b>Beam Switching Antenna for Small Cell Applications (#9696)</b> <i>Chia-Lun Tang, Shih-Chi Lai, Gary Chiou (Auden Techno Corporation)</i>	TU-PM-II-TC-05-1 <b>LMA Observation of Upward Flashes at Santis Tower: Preliminary Results (#9529)</b> <i>A. Mostajabi (Swiss Federal Inst. of Techno.), N. Pienda (Meteorological Service of Catalonia), D. Romero (Tech. Univ. of Catalonia), M. Azadifar (Swiss Federal Inst. of Techno.), O. V. d. Velde (Tech. Univ. of Catalonia), J. Montanya (Tech. Univ. of Catalonia), M. Rubinstein (Inst. for Info. &amp; Comm. Techno.), F. Rachidi (EPFL)</i>
04:20pm	TU-PM-II-TC-04-2 <b>Shielding Effectiveness Prediction of Metallic Structures with Thin Slots Using FDTD (#8969)</b> <i>Liping Yan, Mingjiang Fang, Xiang Zhao (Sichuan Univ.), Qiang Liu, Haijing Zhou (Inst. of Applied Physics and Computation Mathematics)</i>	TU-PM-II-SS-05-2 <b>Fast Conical-Cut Radiation Measurement by Using Lens Fed Reflector for 5G Antenna Application at mmW Frequencies (#9771)</b> <i>YuHsi Tsai (Training Research Co.,Ltd.), Hairui Liu (China Academy of Information and Communications Technology), Yuei Ting Tsai (Training Research Co.,Ltd.)</i>	TU-PM-II-TC-05-2 <b>Modeling of Different Charge Transfer Modes in Upward Flashes Constrained by Simultaneously Measured Currents and Fields (#9421)</b> <b>★BEST EMC PAPER FINALIST★</b> <b>★BEST STUDENT PAPER FINALIST★</b> <i>Lixia He, M. Azadifar, Quanxin Li (EPFL), M. Rubinstein (Univ. of Appl. Sci. of Western Switzerland), V. Rakov (Univ. of Florida), Arturo Mediano (Univ. of Zaragoza), Davide Pavanello (Univ. of Appl. Sci. of Western Switzerland), Mario Paolone (EPFL), Hongyan Xing, (Nanjing Univ. of Info. Sci. &amp; Techno.), Farhad Rachidi (EPFL)</i>
04:40pm	TU-PM-II-TC-04-3 <b>Effect of Conducting Surfaces on the Performance of Common Mode Chokes (#9479)</b> <b>★BEST EMC PAPER FINALIST★</b> <b>★BEST STUDENT PAPER FINALIST★</b> <i>Carlos Dominguez-Palacios, Pablo Gonzalez-Vizuet, Joaquin Bernal Mendez (Universidad de Sevilla)</i>	TU-PM-II-SS-05-3 <b>Dual-band patch antenna array for WLAN applications (#9862)</b> <i>I-Fong Chen, Chia-Mei Peng (Jinwen Univ. of Science and Technology)</i>	TU-PM-II-TC-05-3 <b>Modeling of LEMP Propagation in the Lossy Atmosphere (#8678)</b> <i>Thang H. Tran (National Inst. of Technology, Tsuruoka College), Yoshihiro Baba (Doshisha Univ.), Vijaya Somu (Univ. of Florida), Vladimir A. Rakov (Univ. of Florida)</i>
05:00pm	TU-PM-II-TC-04-4 <b>A Joint Method of EMT and DEMATEL In Analyzing HEMP Coupling Effect of Phased Array Radar Antenna System (#9482)</b> <i>Shenshen Luan, Shuguo Xie (Beihang Univ.), Wei Yan (Beijing Inst. of Radio Measurement), Ziyao Chen (Beihang Univ.)</i>	TU-PM-II-SS-05-4 <b>Multiple OAM Modes Generated by Patch Antenna (#10085)</b> <i>Dandan Liu, Liangqi Gui, Han Chen, Zixiao Zhang, Tao Jiang (Huazhong Univ. of Science and Technology)</i>	TU-PM-II-TC-05-4 <b>FDTD Computation of Lightning Currents in a Multilayer CFRP Panel with a Conductivity Matrix Approach (#9056)</b> <b>★BEST STUDENT PAPER FINALIST★</b> <i>Koki Ueno, Teruo Umeda, Yoshihiro Baba (Doshisha Univ.), Hiroyuki Tsubata, Takayuki Nishi (SUBARU Corporation)</i>
05:20pm	TU-PM-II-TC-04-5 <b>Simulation Analysis on the Capacity Occupancy of Reactive Power Equipment Under DC Biasing of Transformers (#9088)</b> <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>	TU-PM-II-SS-05-5 <b>Design of Balanced Wideband Filtering Circularly Polarized Antenna Using Quasi-Self-Complementary Structure (#9897)</b> <i>Pei-Shan Ho, Ching-Her Lee, Dau-Ming Wu, Hsun-Hsiang Chen (National Changhua Univ. of Education), Chung-I Hsu (Yunlin Univ. of Sci. &amp; Techno.)</i>	TU-PM-II-TC-05-5 <b>Grounding Strategies for Solar PV Panels (#10226)</b> <i>Ahmad Ayub, WH Siew (Univ. of Strathclyde), Faisal Peer Mohamed (Military Technological College)</i>

05:40pm

**TU-PM-II-SS-05-6**

**Modularized Prototype of 5G mmWave Base Station System at 38 GHz (#9912)**

*Li-Hsin Yen, Yang-Chih Huang (National Taiwan Univ. (NTU)), Ssu-Hao Su, Che-Yao Fan, Fang-Hsien Chu (ASUSTek Computer Inc.), Fang-Yao Kuo (Industrial Techno. Research Inst.), Hsin-Chia Lu, Shau-Gang Mao, Kun-You Lin (National Taiwan Univ.), Jackson Yen (ASUSTek Computer Inc.), Tzong-Lin Wu (NTU)*

**TU-PM-II-TC-05-6**

**Some Examples of EMI/EMC in Wind Power Systems and Large Solar Parks (#10356)**

*Ener Salinas (ABB Corporate Research), Kazuo Yamamoto (Chubu University), Leonardo Severo (WEG), Alexandre Pinhel (MAELSTROM ENG & INOVAÇÃO)*

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

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



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

Rooms	Room #334	Room #335	Room #336
08:30am – 10:10am	<p>TC-09: Computational Electromagnetics (III)</p> <p>Chair(s): Tzong-Lin Wu (National Taiwan Univ.) Yueping Zhang (Nanyang Technological Univ., Singapore)</p>	<p>SS-04: Emerging Technologies and EMC</p> <p>Chair(s): Wee Jin Koh (DSO National Laboratories, Singapore) Frank Leferink (Univ. of Twente and THALES, Netherlands)</p>	<p>SS-13: EMC Issues Related to Common-mode Noise</p> <p>Chair(s): Yoshitaka Toyota (Okayama Univ., Japan)</p>
08:30am	<p>WE-AM-I-TC-09-6 Some Analytical Formulas for the Directivity Calculation of Antenna Arrays (#9963) A. Shlamberg, Haim Matzner (HIT-Holon Inst. of Technology), E. Levine (Afeka College of Engineering)</p>	<p>WE-AM-I-SS-04-1 The Interconnected Wireless World, a Major Challenge for EM-Coexistence (#10174) Frank Leferink (Univ. of Twente and THALES, Netherlands)</p>	<p>WE-AM-I-SS-13-1 Modal Analysis of Reflection of TDR in Overhead Distribution Lines (#9773) Tohlu Matsushima, Takashi Hisakado, Osami Wada (Kyoto Univ.), Shimpei Oe, Tsuyoshi Sasaoka (Kansai Electric Power Co. Inc.)</p>
08:50am	<p>WE-AM-I-TC-09-7 Time-Domain Coupling Analysis of Unequal Length MTLs Excited By Plane Wave (#10026) Qiang Liu (Inst. of Applied Physics and Computation Mathematics), Zhihong Ye (Chongqing Univ. of Posts and Telecommunications)</p>	<p>WE-AM-I-SS-04-2 Probability Statistical Method of Assisting Electromagnetic Compatibility Index Decision-making (#10088) Yumei Wang, Wentao Xu (China Ship Development and Design Center)</p>	<p>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 Univ.)</p>
09:10am	<p>WE-AM-I-TC-09-8 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)</p>	<p>WE-AM-I-SS-04-3 EMC Design with Embedded Metamaterial Technology (#9667) Richard Xian-Ke Gao (Inst. of High Performance Computing, A*STAR), Si-Ping Gao (National Univ. of Singapore), Hui Min Lee (Inst. of High Performance Computing, A*STAR), Wanlan Yang (Singapore Univ. of Technology and Design)</p>	<p>WE-AM-I-SS-13-3 Measurement Precision Improvement to Estimate the Immunity Performance for In-vehicle Ethernet (#10002) Miyuki Mizoguchi, Hiroyuki Mori, Youhei Sekiya, Noboru Maeda (Soken, Inc.), Kaoru Yoshida, Yoshiroh Hirata, Takashi Yasuda, Hideki Goto (Toyota Motor Corporation)</p>
09:30am	<p>WE-AM-I-TC-09-9 A Novel Line Position Recognition Method in Transmission Line Patrolling with UAV Using Machine Learning Algorithms (#9562) Yang Wu, Yi Luo, Gen Zhao, Jun Hu (Tsinghua Univ.)</p>	<p>WE-AM-I-SS-04-4 Status of IEMI Activities at the End of 2017 (#10381) Bill Radasky (Metatech Corporation)</p>	<p>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 (Univ. of Electro-Communications)</p>
09:50am	<p>WE-AM-I-TC-09-10 3D Modelling and Analysis of Parasitic Couplings between Surface-Mount Components of EMI Filters (#9630) Aivis Asmanis, Deniss Stepins, Gundars Asmanis, Leonids Ribickis (Riga Technical Univ.)</p>	<p>WE-AM-I-SS-04-5 Non-ionizing EMF Hazard in the 21st Century (#10101) Wee Jin Koh, Shabbir Moolchhala (DSO National Laboratories)</p>	<p>WE-AM-I-SS-13-5 Fast and Accurate Yield Rate Prediction of PCB Embedded Common-Mode Filter with Artificial Neural Network (#9103) ★BEST SI/PI PAPER FINALIST★ ★BEST STUDENT PAPER FINALIST★ Yi-Ting Lin, Chi-Hsuan Cheng, Tzong-Lin Wu (National Taiwan Univ.)</p>



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

Rooms	Room #331	Room #332	Room #333
10:30am – 12:30pm	<p>TC-10: SI/PI (IV)</p> <p>Chair(s): Jose Schutt-Aine (Univ. of Illinois, USA)</p> <p>Zi-Liang Liu (National Univ. of Singapore)</p>	<p>SS-03: Wireless Technology and Wireless Power Transfer (I)</p> <p>Chair(s): Seungyoung Ahn (Korea Advanced Inst. of Science and Technology, South Korea)</p> <p>Eakhwan Song (Kwangwoon Univ., South Korea)</p>	<p>TC-02: EMC Measurement (II)</p> <p>Chair(s): John Ladbury (National Inst. of Standards and Technology, USA)</p> <p>Takehiro Morioka (National Inst. of Advanced Industrial Science and Technology, South Korea)</p>
10:30am	<p>WE-AM-II-TC-10-1</p> <p>Rapid Electro-Thermal Modeling for 3D Integration Using Circuit Simulation Techniques (#10179)</p> <p>Jose Schutt-Aine, Gene Shiue (Univ. of Illinois)</p>	<p>WE-AM-II-SS-03-1</p> <p>Magnetic Field Distribution of Resonance Coupling Coils of Wireless Charging System for EV (#9400)</p> <p>Yu Cao, Li Zhai, Liwen Lin, Tao Zhang (Beijing Inst. of Technology)</p>	<p>WE-AM-II-TC-02-1</p> <p>Influence of Test Table Materials on Radiated Immunity Test : Report on Investigation Using a Giant Anechoic Chamber (#9217)</p> <p>Hiro Shida (Tokin EMC Engineering), Osami Wada (Kyoto Univ.), Yoshitsugu Okuda (KEC Electron. Industry Development Center), Hisashi Ninomiya (Roland Corp.), Yasushi Asaji (Murata Manufacturing Co., Ltd.), Masahiro Inoue (KEC Electron. Industry Development Center), Kenji OTANI (AIST)</p>
10:50am	<p>WE-AM-II-TC-10-2</p> <p>Quantification of EMI for Power-Ground Plane and Novel EBG Structure for SSN Suppression (#9263) ★BEST STUDENT PAPER FINALIST★</p> <p>Panpan Zuo, Yan Li, Yanbo Xu, Hongxing Zheng (Hebei Univ. of Technology), Er-Ping Li (Zhejiang Univ.)</p>	<p>WE-AM-II-SS-03-2</p> <p>Improved Efficiency Characteristics of Wireless Power Charging System for Superconducting MAGLEV Train Using Inserted Permanent Magnets (#10049)</p> <p>Yoon Do Chung (Suwon Science college), Ji Seong Kim (Suwon Science College)</p>	<p>WE-AM-II-TC-02-2</p> <p>Electromagnetic Field Coupling to Planar and Triangular Multiconductor Transmission Lines in a Reverberation Chamber (#9135) ★BEST EMC PAPER FINALIST★</p> <p>Johanna Kasper, Mathias Magdowski (Otto-von-Guericke-Univ.), Rushan Amanov, Marat Gimranov, Evgenii Fedorov, Andrey Ferenets (Kazan National Research Technical Univ.), Ralf Vick (Otto-von-Guericke-Univ.)</p>
1:10am	<p>WE-AM-II-TC-10-3</p> <p>Floorplanning for 3D-IC with Through-Silicon Via Co-Design Using Simulated Annealing (#9127)</p> <p>Hai-Ying Zhu, Mu-Shui Zhang, Yi-Fei He, Yue-Hui Huang (Sun Yat-Sen Univ.)</p>	<p>WE-AM-II-SS-03-3</p> <p>Dual-Mode RFID Tag Antenna on Flexible Silk (#10171)</p> <p>Xiaoyang Yin, Si-Ping Gao, Yongxin Guo (National Univ. of Singapore)</p>	<p>WE-AM-II-TC-02-3</p> <p>A Study on Characteristics of 10 MHz to 30 MHz in CISPR 25 ALSE Method (#9146)</p> <p>Takanori Uno (Denso Emc Engineering Service Corp.), Koji Maeda (Aisin Seiki), Toshiyasu Tanaka (Microwave Factory), Yoshitsugu Okuda (KEC Electron. Industry Development Center), Osami Wada (Kyoto Univ.)</p>
1:30am	<p>WE-AM-II-TC-10-4</p> <p>1 to 4 Way Wideband Power Divider using Substrate Integrated Waveguide and Modified Wilkinson Structures (#9578) ★BEST SI/PI PAPER FINALIST★</p> <p>Vignesh Shanmugam Bhaskar, Eng Leong Tan, Li King Ho Holden, Tse Man Siu (Nanyang Technological Univ.)</p>	<p>WE-AM-II-SS-03-4</p> <p>Single Metal Path Power Transfer Technology without Return Path at 13.56MHz ISM Band (#10102)</p> <p>Bonyoung Lee, Franklin Bien, Woojin Park, Seongkyu Song (Ulsan National Inst. of Science and Technology)</p>	<p>WE-AM-II-TC-02-4</p> <p>Simultaneous Multi-probe Measurements for Rapid Evaluation of Reverberation Chambers (#9599)</p> <p>Dwi Mandaris (Univ. of Twente), Robert Vogt-Ardatjew (Univ. of Twente), Eike Suthau (Lumiloop), Frank Leferink (Univ. of Twente and Thales, Netherlands)</p>
1:50am	<p>WE-AM-II-TC-10-5</p> <p>Scalable Platform for Power Integrity Design Approach with Standard PI Model (SPIM) and Unified PI Target (UPIT) (#9953)</p> <p>Kinger Cai, Jimmy Hsiao, Chi-te Chen, Yun Ling, Steven Ji, Denis Chen (Intel Corporation)</p>	<p>WE-AM-II-SS-03-5</p> <p>Simulation-based Conducted Susceptibility Testing for Wireless Power Transfer(WPT) Systems (#10283)</p> <p>Junho Joo, Eakhwan Song (Kwangwoon Univ.), Jonghwa Kwon, Sang il Kwak (Electronics and Telecom. Research Inst.)</p>	<p>WE-AM-II-TC-02-5</p> <p>Problems with Stirred Immunity Measurements in a Reverberation Chamber--Corrections to DO-160G Section 20.6 (#9227)</p> <p>John Ladbury (National Inst. of Standards and Technology, USA)</p>
12:10pm	<p>WE-AM-II-TC-10-6</p> <p>Modeling and Measurement of A Common-Mode Filter Based on The 3-D Transmission Line Structure (#10288)</p> <p>Yong-Sheng Li, Er-Ping Li (Zhejiang Univ.), Madhavan Swaminathan (Georgia Inst. of Technology)</p>		

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

Rooms	Room #331	Room #332	Room #333
01:30pm – 03:30pm	<b>TM-01: IC EMC (II)</b> Chair(s): <i>Bernd Deuschmann (Graz Univ. of Technology, Austria)</i> <i>Sonia Ben Dhia (LAAS CNRS, France)</i>	<b>SC-07: Aeronautics and Space EMC</b> Chair(s): <i>Narvaez Pablo (Jet Propulsion Laboratory, USA)</i> <i>Peter S. W. Leung (City Univ. of Hong Kong, China)</i>	<b>SS-09: Hardware Security for IoT Devices (I)</b> (Recommended by TC-05) Chair(s): <i>William A. Radasky (Metatech Corporation, USA)</i> <i>Yuichi Hayashi (Nara Inst. of Science and Technology, Japan)</i>
01:30pm	<b>WE-PM-I-TM-01-1</b> <b>Conducted immunity of Bandgap in SOI technology after electrical stress aging (#10276)</b> <i>Jianfei Wu (National Univ. of Defense Technology), Binhong LI (Inst. of Microelectronics of Chinese Academy of Sciences), Hongli Zhang (Tianjin Binhai Civil-military Integrated Innovation Inst.), Hongyi Wang, Liming Zheng (National Univ. of Defense Technology)</i>	<b>WE-PM-I-SC-07-1</b> <b>Investigation on Susceptibility of UAV to Radiated IEMI (#9172)</b> <i>Yazhou Chen, Dongxiao Zhang, Erwei Cheng, Xiaojia Wang (Shijiazhuang Mechanical Engineering College)</i>	<b>WE-PM-I-SS-09-1</b> <b>Introduction to EM Information Security for IoT Devices (#10208)</b> <i>Yuichi Hayashi (Nara Inst. of Science and Technology), Ingrid Verbauwhede (imec-COSIC KU Leuven), William A. Radasky (Metatech Corporation)</i>
01:50pm	<b>WE-PM-I-TM-01-2</b> <b>ICIM-CPI : Integrated Circuits Immunity Model : Conducted Pulse Immunity : Description, Extraction and Example (#10280)</b> <i>Andre Durier (Irt Saint Exupery), Priscila Fernandez-Lopez (Valeo), Jean Luc Levant (Microchip), Christian Marot (Airbus)</i>	<b>WE-PM-I-SC-07-2</b> <b>Enforcing Correlation Between Conducted and Radiated Susceptibility Test Setups for Aerospace Involving Shielded Cables (#9563) ★BEST EMC PAPER FINALIST★</b> <i>Giordano Spadacini, Ludovico Badini, Flavia Grassi, Sergio Pignari (Politecnico di Milano), Alexandre Piche (Airbus Defence &amp; Space – Space Systems)</i>	<b>WE-PM-I-SS-09-2</b> <b>Comparison of two Setups for Contactless Power Measurements for Side-Channel Analysis (#10350)</b> <i>Arthur Beckers, Benedikt Gierlichs, Josep Balasch, Ingrid Verbauwhede (imec-COSIC KU Leuven)</i>
02:10pm	<b>WE-PM-I-TM-01-3</b> <b>Immunity Analysis of an LDO using Identification of Operating Region Transitions (#10297)</b> <i>Lammert Duipmans, Dusan Milosevic (Eindhoven Univ. of Technology), Arnoud van der Wel, Ravi Karadi (NXP Semiconductors), Peter Baltus (Eindhoven Univ. of Technology)</i>	<b>WE-PM-I-SC-07-3</b> <b>Analysis of Signal Environment on 1030/1090MHz Aeronautical Surveillance Systems (#10098)</b> <i>Takuya Otsuyama, Junichi Honda, Junichi Naganawa, Hiromi Miyazaki (Electronic Navigation Research Institute)</i>	<b>WE-PM-I-SS-09-3</b> <b>Extention of Signal-to-Noise Ratio Measurement Method to Byte-by-Byte Side-Channel Attack (#10243)</b> <i>Kengo Iokibe, Toshiaki Teshima, Yusuke Yano, Yoshitaka Toyota (Okayama Univ.)</i>
02:30pm	<b>WE-PM-I-TM-01-4</b> <b>The Shielding Effect of a Multi-Cable Harness as Function of IC Output Termination Impedance (#10349)</b> <i>Herbert Hackl (NXP Semiconductors Austria), Bernd Deuschmann, Bernhard Auinger (Graz Univ. of Technology), Anna Gheonjian (EMCoS ltd.)</i>	<b>WE-PM-I-SC-07-4</b> <b>Electromagnetic Environment Threat Level Requirement for Military Aircraft Susceptibility Testing In Support of High Intensity Radiated Field Qualification (#9345)</b> <i>Gordon Slack, Adrian Monk, Timothy J Duggan (QinetiQ)</i>	<b>WE-PM-I-SS-09-4</b> <b>Weighted Key Enumeration for EM-based Side-Channel Attacks (#10382)</b> <i>Yang Li, Xiaohan Meng, Shuang Wang, Jian Wang (Nanjing Univ. of Aeronautics and Astronautics)</i>
02:50pm	<b>WE-PM-I-TM-01-5</b> <b>Partial and Indirect Non-reciprocal S-parameter Measurement for (m+n)-Port Fixture with DUT (#10357)</b> <i>Yuya Kojima, Toshikazu Sekine, Yasuhiro Takahashi (Gifu Univ.), Noboru Maeda, Shinji Fukui (Soken, Inc.), Yasuyuki Ishikawa (Denso Corporation)</i>		<b>WE-PM-I-SS-09-5</b> <b>Detection of IEMI against IoT Devices Using Voltage Monitor Constructed by Fully Digital Circuit (#10240)</b> <i>Daisuke Fujimoto, Yuichi Hayashi (Nara Inst. of Science and Technology), Arthur Beckers, Josep Balasch, Benedikt Gierlichs, Ingrid Verbauwhede (imec-COSIC KU Leuven)</i>

**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 (National Taiwan Univ. of Science and Technology), Jin Meng (Naval Univ. of Engineering, China)</i>	TC-12: EMC for Emerging Wireless Technology (II) <i>Chair(s): Lie Liu (General Test Systems, USA), Franco Fiori (Politecnico di Torino, Italy)</i>	SS-01: EMC for Wind Farms and Solar PV Plants (Supported and sponsored by EMC TC-07; technical sponsored by CUGRE SC C4) <i>Chair(s): W. H. Siew (Univ. of Strathclyde, Scotland), Ener Salinas (ABB Corporate Research, Sweden)</i>
01:30pm	<b>WE-PM-I-TC-04-1</b> <b>Analytical Description of Contacting Concepts for Shielding Enclosures (#8691)</b> <i>Michael Kuehn, Marcel Messer (AUDI AG), Dr.-Ing. Dr.-Ing. Habil. Robert Weigel (Lehrstuhl für Technische Elektronik Universität Erlangen-Nürnberg)</i>	<b>WE-PM-I-TC-12-1</b> <b>Susceptibility of 2.4GHz Low-Power Receivers to Low Frequency EMI (#9485) ★BEST STUDENT PAPER FINALIST★</b> <i>Marco Brignone Aimonetto, Franco Fiori (Politecnico di Torino)</i>	<b>WE-PM-I-SS-01-1</b> <b>Loss of Equipotential During Lightning Ground Potential Rise on Large Earthing Systems (#10346)</b> <i>Pieter H Pretorius (Terratech, South Africa)</i>
01:50pm	<b>WE-PM-I-TC-04-2</b> <b>Identification of Electromagnetic Interferences Based on Adaptive Sparsest Time - Frequency Analysis (#8926)</b> <i>Peng Li, Zhongyuan Zhou, Mingjie Sheng (Southeast Univ.)</i>	<b>WE-PM-I-TC-12-2</b> <b>Millimeter-wave Propagation Measurement During Rainy Days in Beijing (#9694)</b> <i>Congzheng Han, Yongheng Bi, Shu Duan (Inst. of Atmospheric Physics, Chinese Academy of Sciences)</i>	<b>WE-PM-I-SS-01-2</b> <b>Conducted and Radiated Interference on the interconnections of Renewable Energy Farms (#10042)</b> <i>Patricio E. Munhoz-Rojas (Institutos Lactec)</i>
02:10pm	<b>WE-PM-I-TC-04-3</b> <b>A Multi-tone Interference Equivalence Method for Analyzing the Impact of LFM Interference on the BER of Communications Data Link System (#8962)</b> <i>Kui Zhao, Fangmin He, Hongbo Liu, Qing Wang, Jin Meng, Lei Zhang (Naval Univ. of Engineering)</i>	<b>WE-PM-I-TC-12-3</b> <b>A Novel Stochastic Integral Equation Method for MIMO Communication in Diffuse Multipath Environments (#10380)</b> <i>Zhen Peng, Shen Lin (Univ. of New Mexico)</i>	<b>WE-PM-I-SS-01-3</b> <b>Lightning Protection and EMC Issues of Renewable Energy Sources (#10191)</b> <i>Toshihisa Funabashi (Nagoya Univ.), Kazuo Yamamoto (Chubu Univ.), Shozo Sekioka (Shonan Inst. of Technology)</i>
02:30pm	<b>WE-PM-I-TC-04-4</b> <b>A Novel Heatsink with Mushroom-type EBG Structure for EMI Radiation Suppression (#9317)</b> <i>Hang Jin, Le Zhang, Xiaoli Yang, Ping Cheng, Er-Ping Li (Zhejiang Univ.), Yaojiang Zhang (Huawei)</i>	<b>WE-PM-I-TC-12-4</b> <b>Some Phase-Shifterless Scanning Array Antennas (#10055)</b> <i>L. Volynsky, J. Vargas, Haim Matzner, E. Levine (HIT-Holon Inst. of Technology)</i>	<b>WE-PM-I-SS-01-4</b> <b>Immunity of Solar Inverters to Transient Waveforms (#10373)</b> <i>William A. Radasky, Edward Savage (Metatech Corporation)</i>
02:50pm	<b>WE-PM-I-TC-04-5</b> <b>Resonator Approach for Simple Calculation of Total Microwave Energy Accumulated Inside the Shielding Box (#9082)</b> <i>Pavel Kundyshev, Valentin Butin (Dukhov Research Inst. of Automatics)</i>	<b>WE-PM-I-TC-12-5</b> <b>A 60 GHz Incabin Wireless Transmitting System with Interference Mitigation (#9864)</b> <i>Wei-Jiang Zhao (Inst. of High Performance Computing (IHPC), A*STAR)</i>	<b>WE-PM-I-SS-01-5</b> <b>Behaviour of Surge Protective Devices Under Lightning Ground Potential Rise (#10339)</b> <i>Pieter H Pretorius (Terratech, South Africa)</i>
03:10pm	<b>WE-PM-I-TC-04-6</b> <b>EMI Prediction of Packages by Deep Neural Network (#10193)</b> <i>Hang Jin, Hanzhi Ma, Er-Ping Li (Zhejiang Univ.)</i>	<b>WE-PM-I-TC-12-6</b> <b>Using Low Cost Base-band Digitizer for Fast EUT Magnetic Emission Test (#10176)</b> <i>Iwan Setiawan (Univ. of Twente), Robert Vogt-Ardatjew (Univ. of Twente), Frank Leferink (Univ. of Twente and THALES, Netherlands)</i>	<b>WE-PM-I-SS-01-6</b> <b>Harmonics Induced by Inverters from a Photovoltaic Plant in the Power Grid (#10354)</b> <i>Petre-Marian Nicolae, Radu - Florin Marinescu, Marian-Stefan Nicolae, Diana - Cristina Marinescu, Ileana - Diana Nicolae (Univ. of Craiova)</i>

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

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



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

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



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

Rooms	Room #331	Room #332	Room #333
08:30am – 10:10am	<b>TM-05: Biomedical Electromagnetic (II)</b> Chair(s): Kazuyuki Saito (Chiba Univ., Japan) Jianqing Wang (Nagoya Inst. of Technology, Japan)	<b>TM-02: EMC in Railway Systems (II)</b> Chair(s): Peter S. W. Leung (City Univ. of Hong Kong, China) Samuel Chan (Land Transport Authority, Singapore)	<b>SS-11: Advanced Measurements Technologies for 5G (II)</b> Chair(s): Lie Liu (General Test Systems, USA) Benoit Derat (Rohde & Schwarz, Italy)
08:30am	<b>TH-AM-I-TM-05-1</b> <b>Study on the Searching Strategies of Assessing the MRI RF-induced Heating for an Implantable Plate and Screw System (#9015)</b> Xiaohe Ji, Meiqi Xia, Jianfeng Zheng, Ji Chen (Univ. of Houston), Wolfgang Kainz (Food and Drug Administration (FDA) Center for Devices and Radiological Health Silver Spring)	<b>TH-AM-I-TM-02-1</b> <b>Analysis of Induced Voltage at Close Proximity with High Voltage Cable of Electrified Railways (#8828)</b> Tony W K LO, Peter Sai-Wing Leung (City Univ. of Hong Kong), Patrick Wong (EMC Consortium Limited), Timothy Yun-Ming Siu, Weinong Sun (City Univ. of Hong Kong)	<b>TH-AM-I-SS-11-1</b> <b>Fast Measurement of Phased Array Antenna for 5G Base Station (#10248)</b> Qi Jin, P. H. Shen, Y. H. Qi, W. Yu, L. Liu (Shenzhen General Test Systems Inc.), S. Y. He (Hunan Univ.)
08:50am	<b>TH-AM-I-TM-05-2</b> <b>Impact on Human Exposure to Low Frequency Radiation with Psychological and Brainwave changes (#9465)</b> Yaqing He, Weinong Sun, Peter S W Leung, Timothy Y M Siu, K T Ng (City Univ. of Hong Kong)	<b>TH-AM-I-TM-02-2</b> <b>Research on the Influence of Metal Groove on Wires Coupling in EMU (#9779)</b> Yali Song (Beijing Jiaotong Univ.), Yinghong Wen (Beijing Jiaotong Univ.), Dan Zhang (Beijing Jiaotong Univ.), Lu Xing (Beijing Jiaotong Univ.), Liangde Ma (China Academy of Railway Sciences)	<b>TH-AM-I-SS-11-2</b> <b>A Measurement System for Passive Intermodulation with Real Time Environment Parameter Detection (#9867)</b> Wanzhao Cui, Rui Wang, Jun Li (National Key Laboratory of Science and Technology on Space Microwave)
09:10am	<b>TH-AM-I-TM-05-3</b> <b>Managing the Electromagnetic Environment of Hospital IoT Systems (#9688)</b> Eisuke Hanada (Saga Univ. Graduate School of Science and Engineering), Takato Kudou (Oita Univ.)	<b>TH-AM-I-TM-02-3</b> <b>German EMC Homologation Requirement EMV06 (#10205)</b> Lorenz Jung (Siemens AG)	<b>TH-AM-I-SS-11-3</b> <b>5G Antenna Characterization in the Far-Field: How Close Can Far-Field Be? (#9920)</b> Benoit Derat (Rohde & Schwarz)
09:30am	<b>TH-AM-I-TM-05-4</b> <b>Solutions for EM Exposure Assessment of 5G Wireless Devices (#10457)</b> Mark Douglas, S. Pfeifer, E. Neufeld, E. Carrasco, A. Christ, M. Capstick (IT'IS Foundation (Member of Zurich43)), S. Kuehn, K. Plkovic (Schmid & Partner Engineering AG (SPEAG)), T. Samaras (Aristotle Univ. of Thessaloniki), N. Kuster (Swiss Federal Institute of Technology Zurich (ETHZ))	<b>TH-AM-I-TM-02-4</b> <b>The Modeling and Simulation on Overall-train EMI of China Standardized High-speed Train (#10291)</b> Junpeng Ji, Yikun Liu, Jingang Li (Xi'an Univ. of Technology), Wenjie Chen, Xu Yang (Xi'an Jiaotong Univ.)	<b>TH-AM-I-SS-11-4</b> <b>Equivalent Sources Approach on Radiation Performance Evaluation of Personal Wireless Devices with Head and Hand Phantom (#10237)</b> Qingchun Luo (ShenZhen General Test System Inc.)
09:50am	<b>TH-AM-I-TM-05-5</b> <b>Development of Wearable ECG Based on Human Body Communication Technology (#10119)</b> Yusuke Sawatari, Daisuke Anzai, Jianqing Wang (Nagoya Inst. of Technology)	<b>TH-AM-I-TM-02-5</b> <b>Simulations of Railway VCB Switching Noise (#10020)</b> Umberto Paoletti, Kiyoto Matsushima (Hitachi, Ltd., Yokohama Research Laboratory)	<b>TH-AM-I-SS-11-5</b> <b>High-power Honeycomb Absorber for 5G Millimeter Wave Chambers (#10242)</b> Y. Zhang, Y. J. Zhu, Y. H. Qi, W. Yu, Lie Liu, (General Test Systems Inc.), F. H. Li (Hunnan Univ.)

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

Rooms	Room #334	Room #335	Room #336
08:30am – 10:10am	<p><b>TM-03: Efficient and Accurate Simulation of Multi-scale EMC &amp; SI/PI (I)</b></p> <p><i>Chair(s): Siping Gao (National Univ. of Singapore) Huapeng Zhao (Univ. of Electronic Science and Technology of China)</i></p>	<p><b>SS-05: Potential Electromagnetic Techniques for Booming Wireless Communications (III)</b></p> <p><i>Chair(s): Han-Chang Hsieh (Bureau of Standards, Metrology &amp; Inspection, Taiwan) Chow-Yen-Desmond Sim (Feng Chia Univ., Taiwan)</i></p>	<p><b>TM-04: EMC in Power Electronics and Smart Grid (II)</b></p> <p><i>Chair(s): Henglin Chen (Zhejiang Univ., China) Flavia Grassi (Politecnico di Milano, Italy)</i></p>
08:30am	<p><b>TH-AM-I-TM-03-1 A Novel Hybrid 2D/Q-2D Finite Element Method for Power/Ground Plane Analysis (#10025)</b></p> <p><i>Ping Li, Li Jun Jiang (The Univeristy of Hong Kong), Hakan Bagci (King Abdullah Univ. of Science and Technology)</i></p>	<p><b>TH-AM-I-SS-05-1 Design Procedure of A CPW-Fed Monopole Antenna For Dual-Band Operation (#8799)</b></p> <p><i>Jun-Yu Lai, Ji-Xiang Zheng, Chien-Jen Wang (National Univ. of Tainan)</i></p>	<p><b>TH-AM-I-TM-04-1 Conducted Emissions Simulation Technology for an Inverter Device Integrated into the Motor (#9535)</b></p> <p><i>Yoshitaka Nishiguchi (Soken, Inc.), Shinji Ohoka (Soken, Inc.), Yoshihiro Kida (Soken, Inc.), Kazutoshi Shiomi (DENSO CORPORATION)</i></p>
08:50am	<p><b>TH-AM-I-TM-03-2 A Combined 1D and 2D DGTD Method for Modeling Multilayer Power-Ground Planes with Narrow Slots (#10262)</b></p> <p><i>Hui Min Lee (Inst. of High Performance Computing, A*STAR), Si-Ping Gao (National Univ. of Singapore), En-Xiao Liu (Inst. of High Performance Computing (IHPC), A*STAR)</i></p>	<p><b>TH-AM-I-SS-05-2 On the Simultaneous Switching Noise Suppression by the Integration of Z-shape Power Bus and Bandstop Filter (#8981)</b></p> <p><i>Tse-Hsuan Wang, Lin-Zong Zheng, Ding-bing Lin, Min-Hung Hsieh (National Taiwan Univ. of Science and Technology)</i></p>	<p><b>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)</b></p> <p><i>Paolo Manfredi (Politecnico di Torino), Riccardo Trincherio (Politecnico di Torino), Dries Vande Ginste (Ghent Univ.)</i></p>
09:10am	<p><b>TH-AM-I-TM-03-3 Electromagnetic Analysis of Massive Vertical Interconnects for Dense Pin Assignment Optimization Using Multiple Scattering Techniques (#9944)</b></p> <p><i>Boping Wu (Huawei Technologies)</i></p>	<p><b>TH-AM-I-SS-05-3 A Compact CPW-Fed Monopole Antenna For Dual-Band Circular Polarization (#8800)</b></p> <p><i>Ji-Xiang Zheng, Jun-Yu Lai, Chien-Jen Wang (National Univ. of Tainan)</i></p>	<p><b>TH-AM-I-TM-04-3 Electromagnetic Modeling of High Voltage Multi-Level Converter Substations (#9850)</b></p> <p><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><b>TH-AM-I-TM-03-4 An Improved Expression of Via Barrel-Plate Capacitance Based on a Convergence Study (#8749)</b></p> <p><i>Si-Ping Gao (National Univ. of Singapore), Francesco de Paulis (Univ. of L'Aquila), En-Xiao Liu (Inst. of High Performance Computing, A*STAR), Antonio Orlandi (Univ. of L'Aquila), Hui Min Lee (Inst. of High Performance Computing, A*STAR)</i></p>	<p><b>TH-AM-I-SS-05-4 An Ultrathin Wideband Capsule Antenna with Low Level Specific Absorption Ratio (#8871)</b></p> <p><i>Mengjun Wang, Jun Zhao (Hebei Univ. Of Technology), Lulu Cai, Ping Ma (School of Electronic Information Engineering), Ze Yang (School of Electronic Information Engineering), Hongxing Zheng (School of Electronic Information Engineering)</i></p>	<p><b>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)</b></p> <p><i>Bernhard Wunsch, Didier Cottet, Goran Eriksson (ABB Switzerland Ltd.)</i></p>
09:50am	<p><b>TH-AM-I-TM-03-5 Analysis of the Accuracy and Limitation of Contour Integral Equation Modeling of Planar Structures (#10312)</b></p> <p><i>Kangning Li, Huapeng Zhao, Zhizhang Chen, Jun Hu (Univ. of Electronic Science and Technology of China)</i></p>	<p><b>TH-AM-I-SS-05-5 An Effective EMI-Suppression Technique for Modern Wideband Common-Mode Filters (#8954)</b></p> <p><i>Cheng-Nan Chiu, Chien-Ting Kao, Yu-Chou, Tsung-Ching Lin (Yuan Ze Univ.), Han-Chang Hsien (3Bureau of Standards, Metrology and Inspection (BSMI) Ministry of Economic Affairs)</i></p>	<p><b>TH-AM-I-TM-04-5 Common Mode Noise Analysis of buck-boost converter for hybrid energy storage systems (#9057)</b></p> <p><i>Minghai Dong, Hui Li, Qishui Zhong, Yingzhe Wu (Univ. 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	<p>TC-10: SI/PI (V)</p> <p>Chair(s): <i>Tzong-Lin Wu (National Taiwan Univ.)</i> <i>Binfang Wang (Institute of High Performance Computing, A*STAR, Singapore)</i></p>	<p>SS-03: Wireless Technology and Wireless Power Transfer (II)</p> <p>Chair(s): <i>Seungyoung Ahn (Korea Advanced Inst. of Science and Technology, South Korea)</i> <i>Chulsoon Hwang (Missouri Univ. of Science and Technology, USA)</i></p>	<p>SS-09: Hardware Security for IoT Devices (II)</p> <p>Chair(s): <i>William A. Radasky (Metatech Corporation, USA)</i> <i>Yuichi Hayashi (Nara Inst. of Science and Technology, Japan)</i></p>
10:30am	<p>TH-AM-II-TC-10-1</p> <p><b>A Pseudo-supervised Machine Learning Approach to Broadband LTI Macro-Modeling (#9481)</b></p> <p><i>Jose Schutt-Aine, Thong Nguyen (Univ. of Illinois at Urbana - Champaign)</i></p>	<p>TH-AM-II-SS-03-1</p> <p><b>An Ambient Energy Harvester Using Metasurface (#10121)</b></p> <p><i>Qi Zhao, Long Li, Xuanming Zhang, Xuefang Zhang, Jianing Chen (Xidian Univ.)</i></p>	<p>TH-AM-II-SS-09-1</p> <p><b>On the Evaluation of Electromagnetic Information Leakage from Mobile Device Screens (#10192)</b></p> <p><i>Ville Yli-Mayry, Daisuke Miyata, Naofumi Homma (Tohoku Univ.), Yuichi Hayashi (Nara Inst. of Science and Technology), Takafumi Aoki (Tohoku Univ.)</i></p>
10:50am	<p>TH-AM-II-TC-10-2</p> <p><b>Most Energy-Efficient Input Voltage Functions for RC Delay Line (#9457)</b></p> <p><i>Radit Smunyahirun, Eng Leong Tan (Nanyang Technological Univ.)</i></p>	<p>TH-AM-II-SS-03-2</p> <p><b>Design of Toroidal Core for Magnetic Energy Harvester Near Power Line Considering Saturation (#10211)</b></p> <p><i>Bumjin Park, Dongwook Kim, Jaehyoung Park, Yujun Shim, Seungyoung Ahn (Korea Advanced Inst. of Science and Technology), Jay Koo (Ferrarispower, Bundang-gu, Seongnam-si)</i></p>	<p>TH-AM-II-SS-09-2</p> <p><b>Information Leakage and Recovery from Multiple LCDs (#10197)</b></p> <p><i>Dong Hoon Choi, Ho Seong Lee, Jong-Gwan Yook (Dept. Electrical and Electronic Engineering Yonsei Univ.)</i></p>
11:10am	<p>TH-AM-II-TC-10-3</p> <p><b>Electrical-Thermal Co-Simulation for Through Silicon Via and Active Tier in 3-D IC (#10199)</b></p> <p><i>Qiu Min (Zhejiang Univ.), Shi-Yun Zhou (Zhejiang Univ.), Cheng Zhuo (Zhejiang Univ.), Hang Jin (Zhejiang Univ.), Jian-Ming Jin (Univ. of Illinois at Urbana Champaign), Er-Ping Li (Zhejiang Univ.)</i></p>	<p>TH-AM-II-SS-03-3</p> <p><b>High Efficiency Wireless Power Transfer System Robust against Misalignment (#10246)</b></p> <p><i>Chen Xu, Yuan Zhuang, Yi Huang, Jiafeng Zhou (Univ. of Liverpool), William W Lee (Zhejiang Univ.)</i></p>	<p>TH-AM-II-SS-09-3</p> <p><b>A Possible Information Leakage From DVI Cable Corresponding to Display Color (#10196)</b></p> <p><i>Ho Seong Lee, Dong Hoon Choi, Jong-Gwan Yook (Yonsei Univ.)</i></p>
11:30am	<p>TH-AM-II-TC-10-4</p> <p><b>Statistical Eye-Diagram Estimation Method for High-Speed Channel with N-Tap Decision Feedback Equalizer (DFE) (#8771)</b></p> <p><i>Junyong Park, Huijin Song, Dong-Hyun Kim, Sumin Choi, Joungho Kim (Korea Advanced Inst. of Science and Technology)</i></p>	<p>TH-AM-II-SS-03-4</p> <p><b>The Study On Permeability Parameter of WPT Coil Substrate Effect of Shielding Effectiveness and Transfer Efficiency (#10250)</b></p> <p><i>Wei-jia Li, Yun Wang, Chao Pang, Hui Chen, Di-Fei Liang, Long-Jiang Deng (Univ. of Electronic Science and Technology of China)</i></p>	<p>TH-AM-II-SS-09-4</p> <p><b>Study on Range of Information Leakage from IoT Devices with Hardware Trojans (#10342)</b></p> <p><i>Masahiro Kinugawa (National Inst. of Technology, Sendai College), Yuichi Hayashi (Nara Inst. of Science and Technology)</i></p>
11:50am	<p>TH-AM-II-TC-10-5</p> <p><b>Advanced PDN Analysis and Optimization within a 3D SoC, SiP, PCB Co-Design Environment (#9154)</b></p> <p><i>Ralf Bruening, Narayanan T. V., Humair Mandvia (ZUKEN)</i></p>	<p>TH-AM-II-SS-03-5</p> <p><b>Wireless Power Transfer System for Unmanned Vehicle using T-shape Ferrite Structure (#10358)</b></p> <p><i>Yujun Shin, Jaehyoung Park, Jonghoon Kim (Korea Advanced Inst. of Science and Technology), Byunggi Kwon, Heehyun Eun (LIG Nex1), Seungyoung Ahn (Korea Advanced Inst. of Science and Technology)</i></p>	
12:10pm	<p>TH-AM-II-TC-10-6</p> <p><b>Comprehensive Signal and Power Co-Investigation on DDR4 Simulation and Measurement (#9447)</b></p> <p><i>Nick K. H. Huang, Chih-Yao Hsieh, Bin-Chyi Tseng, Liang-Yu Shih (ASUSTek Computer Inc.)</i></p>	<p>TH-AM-II-SS-03-6</p> <p><b>45-Degree Polarized Microstrip Grid Arrays for Millimeter-Wave Micro Base Station (#9995)</b></p> <p><i>Shan Li, Li-Yun Shi, Lin-Sheng Wu (Shanghai Jiao Tong Univ.), Ying Liu (Xidian Univ.), Yueping Zhang (Nanyang Technological Univ.)</i></p>	



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

Rooms	Room #334	Room #335	Room #336
10:30am – 12:30pm	<p><b>TM-03: Efficient and Accurate Simulation of Multi-scale EMC &amp; SI/PI (II)</b></p> <p><i>Chair(s): Shiquan He (Univ. of Electronic Science and Technology of China), Sping Gao (National Univ. of Singapore)</i></p>	<p><b>SS-05: Potential Electromagnetic Techniques for Booming Wireless Communications (IV)</b></p> <p><i>Chair(s): Han-Chang Hsieh (Bureau of Standards, Metrology &amp; Inspection, Taiwan), Chow-Yen-Desmond Sim (Feng Chia Univ., Taiwan)</i></p>	<p><b>TM-04: EMC in Power Electronics and Smart Grid (III)</b></p> <p><i>Chair(s): Yanzhao Xie (Xi'an Jiaotong Univ., China), Junhong Deng (TÜV SÜD PSB Pte Ltd, Singapore)</i></p>
10:30am	<p><b>TH-AM-II-TM-03-1</b></p> <p><b>Research on Sparse Adaptive Beam-forming based on Non-Uniform Norm for Failure Elements (#10170)</b></p> <p><i>Peng Xu, Jiahui Qin, Hengxu Wang, Tao Jiang (Harbin Engineering Univ.)</i></p>	<p><b>TH-AM-II-SS-05-1</b></p> <p><b>A High-Gain Circularly-Polarized Patch Antenna Design Using an Advanced Shielding Technique (#8956)</b></p> <p><i>Cheng-Nan Chiu, Shao Po Sun, Yu-Chou Chuang, Tsung-Ching Lin (Yuan Ze Univ.), Han-Chang Hsieh (Bureau of Standards, Metrology and Inspection (BSMI) Ministry of Economic Affairs)</i></p>	<p><b>TH-AM-II-TM-04-1</b></p> <p><b>Non-ideal Electric Field Shielding with Grounding Resistor for Suppressing EMI Coupling in a Power Converter (#9852)</b></p> <p><i>Shize Ye, Xiaoyan Zheng, Zhichao Zheng (Zhejiang Univ.), Ji Xiao (State Grid Corp. of China), Henglin Chen (Zhejiang Univ.)</i></p>
10:50am	<p><b>TH-AM-II-TM-03-2</b></p> <p><b>The Associated Hermite FDTD Method: Developments and Applications (#10228)</b></p> <p><i>Zheng-Yu Huang (Nanjing Univ. of Aeronautics and Astronautics), Li-Hua Shi (Army Engineering Univ.)</i></p>	<p><b>TH-AM-II-SS-05-2</b></p> <p><b>Near- and Far-Field Shielding Effectiveness Analysis of Magnetic Materials and Their Effect on Wireless Power Charger (#8971)</b></p> <p><i>Han-Nien Lin, Cheng-Hau Wu, Jen-Fu Huang, Wei-Ding Tseng (Feng Chia Univ.), Jeffrey (Yen-Ting) Lin (National Kaohsiung Univ.), Min-Shang Lin (Bureau of Standards, Metrology and Inspection, MOEA)</i></p>	<p><b>TH-AM-II-TM-04-2</b></p> <p><b>Numerical Approach to Study Layout Influence on Electromagnetic Emissions Signature (#9617)</b></p> <p><i>Wided Belloumi, Arnaud Breard (Laboratoire Ampère), Jaleddine Ben Hadj Slama (Univ. of Sousse), Christian Voltaire (Laboratoire Ampère)</i></p>
11:10am	<p><b>TH-AM-II-TM-03-3</b></p> <p><b>Finite-Difference Time-Domain Method for Multilayer Carbon-Fiber-Reinforced Polymer Panel using Tensorial Conductivity Matrix (#9277)</b></p> <p><i>Zaifeng Yang, Hui Min Lee, Si-Ping Gao, Richard Xian-Ke Gao, Ching Eng Png (IHPC, A*STAR)</i></p>	<p><b>TH-AM-II-SS-05-3</b></p> <p><b>On Investigation of Near-field Antenna for Pulse-based Vital-sign Monitoring Application (#9374)</b></p> <p><i>Chia-Hung Chang (Feng Chia Univ.), Wei-Ping Hung (National Chao-Tung Univ.)</i></p>	<p><b>TH-AM-II-TM-04-3</b></p> <p><b>Overvoltage of Secondary Cables in Substation due to Short Circuit Fault (#10298)</b></p> <p><i>Yongchang Meng, Bo Zhang (Tsinghua Univ.), Wei Shen, Sen Wang (Shaanxi Electric Power Research Inst.), Yutang Ma (Yunnan Electric Power Research Inst.)</i></p>
11:30am	<p><b>TH-AM-II-TM-03-4</b></p> <p><b>Transient Analysis of Magnetic Balance Sensor with Field-Circuit Combined Simulation (#10267)</b></p> <p><i>Yongfu Liu, Shiquan He (Univ. of Electronic Science and Techno. of China), Juping Li, Li Cao (Ningbo CRRC Times Transducer Technique Co, Ltd)</i></p>	<p><b>TH-AM-II-SS-05-4</b></p> <p><b>Microwave Orbital Angular Momentum Mode Multiplexing Using Circular Slot Antenna (#10234)</b></p> <p><i>Zixiao Zhang, Liangqi Gui, Dandan Liu, Han Chen (Huazhong Univ. of Sci. and Techno.)</i></p>	<p><b>TH-AM-II-TM-04-4</b></p> <p><b>Automated Equivalent Circuit Extraction of Impedance Curves Using a Gauss-Newton Algorithm (#9873)</b></p> <p><i>Niek Moonen, Jesper Lansink Rotgerink, Frank Leferink (Univ. of Twente)</i></p>
11:50am	<p><b>TH-AM-II-TM-03-5</b></p> <p><b>Radiation Physics Analysis of High-speed Connectors with Sub-structure Characteristic Modes (#10268)</b></p> <p><i>Xu Wang, Shiquan He (Univ. of Electronic Science and Techno. of China), Ying S. Cao (Missouri Univ. of Science and Techno.)</i></p>	<p><b>TH-AM-II-SS-05-5</b></p> <p><b>Circular Sector Antenna Pair with Harmonic Rejection Property for Near-Field Wireless Power Transmission (#9027)</b></p> <p><i>Ding-bing Lin (National Taiwan Univ. of Sci. &amp; Techno.), Ifong Wu (National Inst. of Info. &amp; Comm. Techno.), Ling Tien, YiHao Huang (National Taiwan Univ. of Sci. &amp; Techno.)</i></p>	<p><b>TH-AM-II-TM-04-5</b></p> <p><b>Analysis of Conducted EMI in Si IGBT + SiC MOSFET Hybrid Switch Based Converters (#10383)</b></p> <p><i>Amol Deshpande, Balaji Narayanasamy, Fang Luo (Univ. of Arkansas)</i></p>
12:10pm	<p><b>TH-AM-II-TM-03-6</b></p> <p><b>A Measurement Verification for EMI Source Reconstruction Method Based on Amplitude-only Near-Field Scanning (#10311)</b></p> <p><i>Jing Zhou (Huawei), Yu-Fei Shu, Jun Li (Zhejiang Univ.), Nan Xia, Zheng-Dong Gu (Huawei), Xing-Chang Wei (Zhejiang Univ.)</i></p>	<p><b>TH-AM-II-SS-05-6</b></p> <p><b>Small-Sized, Printed 2.4/5-GHz WLAN Notebook Antenna Aimed for 4 x 4 Multiple Transmit / Receive Antennas in Future Gbps Communications (#9028)</b></p> <p><i>Saou-Wen Su, Bin-Chyi Tseng (ASUSTek Computer Inc.)</i></p>	<p><b>TH-AM-II-TM-04-6</b></p> <p><b>Experimental Analysis and Circuit Modeling of Pulsed Current Injection in Wire Pairs (#10329)</b></p> <p><i>Zithong Cui (Xidian Univ.), Flavia Grassi, Sergio Pignari (Politecnico di Milano), Bing Wei (Xidian Univ.)</i></p>

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

Rooms	Room #331	Room #332	Room #333
01:30pm – 03:30pm	<p>SS-02: Metamaterials/metasurfaces for Manipulations of Electromagnetic Waves</p> <p>Chair(s): He-Xiu Xu (Air Force Engineering Univ., China) Yongjun Huang (Univ. of Electronic Science and Technology of China)</p>	<p>SS-14: Radio Frequency Remote Sensing (Supported by IET Electromagnetics Technical and Professional Network)</p> <p>Chair(s): Julien Le Kerrec (Univ. of Glasgow, UK) Jiafeng Zhou (Univ. of Liverpool, UK)</p>	<p>TC-02: EMC Measurement (III)</p> <p>Chair(s): Ed Hare (American Radio Relay League, USA) Zaifeng Yang (Inst. of High Performance Computing, A*STAR, Singapore)</p>
01:30pm	<p>TH-PM-I-SS-02-1 Verification and Crosstalk of Chirowaveguides (#10184) Zhihao Jiang (Southeast Univ.)</p>	<p>TH-PM-I-SS-14-1 Synthesis of Wide-band Radar Signals Using Multiple Subbands in Complex Noise Environment (#10324) Huapeng Zhao, Ying Zhang, Jun Hu (Univ. Of Electronic Science and Technology of China), Zhizhang Chen (Dalhousie Univ.)</p>	<p>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 Univ.)</p>
01:50pm	<p>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 Inst. of Technology)</p>	<p>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 Inst. of Technology)</p>	<p>TH-PM-I-TC-02-2 An Optimal Design of Printed Log-Periodic Antenna for L-band EMC Applications (#9666) Keyur Mistry (Univ. of Huddersfield), Pavlos Lazaridis (Univ. of Huddersfield), Zaharias Zaharis (Aristotle Univ. of Thessaloniki), Thomas Xenos (Aristotle Univ. of Thessaloniki), Emmanouil Tziris (Brunel Univ.), Ian Glover (Univ. of Huddersfield)</p>
02:10am	<p>TH-PM-I-SS-02-3 Broadband Wide-Angle Polarization-Independent Diffusion Using Parabolic-Phase Metasurface (#8733) He-Xiu Xu, Xiao-Kuan Zhang (Air Force Engineering Univ.), Xiaohui Ling, Lei Zhou (Fudan Univ.)</p>	<p>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 (Univ. of Liverpool)</p>	<p>TH-PM-I-TC-02-3 WLAN MIMO Antennas for Smart Watch Applications (#9800) Ting-Yan Zhuo (Southern Taiwan Univ. of Science and Technology), Wen-Shan Chen (Southern Taiwan Univ. of Science and Technology), Chow-Yen-Desmond Sim (Feng Chia Univ.)</p>
02:30pm	<p>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 Univ. of Aeronautics and Astronautics)</p>	<p>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, Cheng-rui Zhang, Xiao-long Huang, Liang Zhou, Jun-Fa Mao (Shanghai Jiaotong Univ.)</p>	<p>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 Univ. of Aeronautics and Astronautics)</p>
02:50pm	<p>TU-PM-I-SS-02-5 Metasurfaces for Specific Beams Generations (#10364) Jian Li, Yongjun Huang, Guangjun Wen (Univ. of Electronic Science and Technology of China)</p>	<p>TH-PM-I-SS-14-5 Aluminium feeds for reflector for nadirSAR (#10336) Derek Gray (Xi'an Jiaotong Liverpool Univ.), Julien Le Kerrec (Univ. of Glasgow)</p>	<p>TH-PM-I-TC-02-5 The Future of EMC Testing (#10060) Sangam Baligar, Flynn Lawrence (Amplifier Research Corp)</p>
03:10pm	<p>TU-PM-I-SS-02-6 Beam Scanning Range Expansion of Liquid Crystals Based Leaky Wave Antennas (#10160) Ma Shuang, Meng Fan-Yi, Yang Guo-Hui, Zhang Kuang, Ding Xu-Ming, Wu Qun, Zhu Lei (Harbin Inst. of Technology)</p>	<p>TH-PM-I-SS-14-6 The Role of FSV in EMC Characterization (#10444) Alistair Duffy (De Montfort Univ.), Gang Zhang (Harbin Inst. of Technology)</p>	<p>TH-PM-I-TC-02-6 New standardized EMC evaluation methods for communication transceivers (#10289) Frank Klotz, Marlon Robl (Infineon Technologies AG), Bernd Korber, Norman Muller (WHZ Univ. of Applied Sciences)</p>



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

Rooms	Room #334	Room #335	Room #336
01:30pm – 03:30pm	<b>TM-03: Efficient and Accurate Simulation of Multi-scale EMC &amp; SI/PI (III)</b>  Chair(s): Huapeng Zhao (Univ. of Electronic Science and Technology of China) Xingchang Wei (Zhejiang Univ., China)	<b>SS-06: Design and Modeling of Emerging EM Components and Devices (I)</b>  Chair(s): Zhixiang Huang (Anhui Univ., China) Min Hu (Univ. of Electronic Science and Technology of China)	<b>TC-05: Electrostatic Discharge and Arcs</b>  Chair(s): William Radasky (Metatech Corporation, USA) Yoshihiro Baba (Doshisha Univ., Japan)
01:30pm	<b>TH-PM-I-TM-03-1</b> <b>Challenges of Multi-scale Modelling for System-level EMI Simulation (#10024)</b> Ming Zhou, Jing Li, Qinghai Wang, Yaojiang Zhang (Huawei), Xu Wang, Shiquan He (Univ. of Electronic Science and Technology of China)	<b>TH-PM-I-SS-06-1</b> <b>A Horizontally Polarized Ominidirectional Millimeter Wave Microstrip Antenna with Miniaturized Dual-Bent-"S"-Shaped Structure (#9064)</b> Chao-Wei Yang, Shi Pu, Xiao-Ying Xu (Wuhan Univ. of Technology), Chen Wang (Altair Engineering Software)	<b>TH-PM-I-TC-05-1</b> <b>A Simulation and Experimental Study of the Failure of an Internal Digital Clock due to ESD and its Mitigation (#9636) ★BEST EMC PAPER FINALIST★</b> Pujitha Davuluri, Hao-Han Hsu, Min Keen Tang, Kae-An Liu (Intel Corporation)
01:50pm	<b>TH-PM-I-TM-03-2</b> <b>A Statistical Equivalent Circuit Modelling based on Measurec and De-embedded S-Parameters (#10322)</b> De-Cao Yang, Jing Zhou (Huawei), Shi Yao, Liang Gao (Zhejiang Univ.), Nan Xia, Zheng-Dong Gu (Huawei), Xing-Chang Wei (Zhejiang Univ.)	<b>TH-PM-I-SS-06-2</b> <b>A Low-Profile Dual-Band-Pass FSS Applied to Wi-Fi Communication Systems (#9662)</b> Yun Jing Zhang, Mei Song Tong (Tongji Univ.)	<b>TH-PM-I-TC-05-2</b> <b>A Study on Transient Current Distribution caused by Micro-gap ESD in Spherical Electrode. (#9978)</b> Masato Oikawa, Chihiro Okamura, Ken Kawamata, Shinobu Ishigami, Shigeki Minegishi (Tohoku Gakuin Univ.), Osamu Fujiwara (Nagoya Inst. of Technology)
02:10am	<b>TH-PM-I-TM-03-3</b> <b>Circuit Models for Bulk Current Injection (BCI) Clamps with Multiple Cables (#10338)</b> Bibhu Nayak, Arkaprov Das, Sreenivasulu Reddy Vedicherla (Indian Inst. of Science)	<b>TH-PM-I-SS-06-3</b> <b>Analytical Modeling of SiC MOSFET during Switching Transient (#9843)</b> Yingzhe Wu, Hui Li, Chuan Li, Chuang Bi (Univ. of Electronic Science and Technology of China), Yongjian Zhi (CRRC Zhuzhou Inst.), Weizheng Yao, Gang Liu (XUJI Group Corp.)	<b>TH-PM-I-TC-05-3</b> <b>Efficient Analysis of ESD Noise Coupling to Mobile Device Memory Module (#9026)</b> Jawad Yousaf, Hosang Lee, Myeongkoo Park (Sungkyunkwan Univ.), Jinsung Youn, Daehee Lee, Chanseok Hwang (Samsung Electronics Co, Ltd), Wansoo Nah (Sungkyunkwan Univ.)
02:30pm	<b>TH-PM-I-TM-03-4</b> <b>Impedance Calculation of Grid Power Distribution Network with Irregular Shapes (#8837)</b> Weiying Ding (Zhejiang Univ.), Tie-Ming Xiang (Hangzhou Dianzi Univ.), Li Ding, Xing-Chang Wei (Zhejiang Univ.)	<b>TH-PM-I-SS-06-4</b> <b>Broadband THz Generation from Plasmonic Metasurface (#9882)</b> Ming Fang, Zhixiang Huang, Xianliang Wu (Anhui Univeristy), Wei E. I. Sha (Zhejiang Univ.)	<b>TH-PM-I-TC-05-4</b> <b>Time Domain Measurement of Collision ESD Using Optical E-Field Sensor (#10074)</b> Takayoshi Ohtsu, Norihiro Ogishima, Haruki Tashiro (National Inst. of Technology, Numazu College), Ryuji Osawa (Seikoh Giken Co., Ltd)
02:50pm	<b>TH-PM-I-TM-03-5</b> <b>Analytical Intra-System EMI Model using Dipole Moments and Reciprocity (#9426)</b> Sangsu Lee (Ajou Univ.), Yang Zhong, Qiaolei Huang (Missouri Univ. of Science and Technology(MST)), Takashi Enomoto, Shingo Seto, Kenji Araki (Sony Global Manu. & Operations Corp.), Jun Fan, Chulsoon Hwang (MST)	<b>TH-PM-I-SS-06-5</b> <b>Theoretical Calculation and Electromagnetic Simulation of Smith-Purcell in Photonic Crystals (#9930)</b> Xiaoqiuyan Zhang, Min Hu, Sen Gong, Zhenhua Wu, Yueheng Cao, Pengfei Hu, Shenggang Liu (Univ. of Electronic Science and Technology of China)	<b>TH-PM-I-TC-05-5</b> <b>Analysis of Relationship between Arc Power and Radiated Electromagnetic Noise (#9165)</b> Shingo Shimizu, Shinji Ohoka (Soken, Inc.), Yoshihiro Adachi (Denso corp)
03:10pm	<b>TH-PM-I-TM-03-6</b> <b>Simplification Technique for Modeling Electromagnetic Radiation of Shielding Cable Bundle (#8790)</b> Pei Xiao, Ping-An Du, Bao-Lin Nie (Univ. of Electronic Science and Technology of China)	<b>TH-PM-I-SS-06-6</b> <b>Bended Differential Transmission Lines Using Asymmetric Stepped-Impedance Lines for Common-Mode Noise Suppression (#9971)</b> Hao-Jie Zhu, Jian Wang (Ningbo Univ.), Xiao-Yang Yin (National Univ. of Singapore)	

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

Rooms	Room #331	Room #332	Room #333
	TC-10: SI/PI (VI)	TC-04: EMI/EMC	TC-01/02/03: EMC Management, Measurement & Environment
03:50pm – 05:30pm	Chair(s): Er-Ping Li (Zhejiang Univ., China) Hui Min Lee (Institute of High Performance Computing, A*STAR, Singapore)	Chair(s): Cheng-Nan Chiu (Yuan Ze Univ., Taiwan) Wei-Jiang Zhao (Institute of High Performance Computing, A*STAR, Singapore)	Chair(s): Frank Leferink (Univ. of Twente and THALES, Netherlands) Zhongxiang Shen (Nanyang Technological Univ., Singapore)
03:50pm	TH-PM-II-TC-10-1 Comparison Test and Error Analysis of the TEM Cell Method in IC Radiated Emission (#10290) Yafei Li (Tianjin Binhai Civil-military Integrated Innovation Inst.), Haiyan Ma (Shanghai Aerospace Electronic Technology Inst.), Jianfei Wu (National Univ. of Defense Technology), Hong Li, Hongli Zhang (Tianjin Binhai Civil-military Integrated Innovation Inst.)	TH-PM-II-TC-04-1 Antenna Calibration in Annechic Chamber (30MHz to 1GHz) (#9205) Yujiro Seki (IPS Corporation)	TH-PM-II-TC-01-1 Decision Rules for Metrological Confirmation of EMC Measurement Equipment (#8949) Carlo Carobbi (Univ. of Florence)
04:10pm	TH-PM-II-TC-10-2 Common mode conversion noise suppression using L-Pad with asymmetric coupled lines on bended differential lines (#9651) Seungjin Lee, Jaehyuk Lim, Sangyeol Oh, Jaehoon Lee (Korea Univ.), Yonghoon Kim, Dan Oh (Samsung Electronics, Inc.)	TH-PM-II-TC-04-2 A Susceptibility Assessment Method of High-Power Electromagnetic Effects Based on Gaussian Process Classification and Autoregressive Co-kriging Model (#9197) Yuhao Chen, Kejie Li (Xi'an Jiaotong Univ.), Shaoyan Gong (Global Energy Interconnection Research Inst.), Minzhou Liu, Yanzhao Xie (Xi'an Jiaotong Univ.)	TH-PM-II-TC-01-2 Teaching EMC using an EMC demonstration unit (#9492) ★BEST STUDENT PAPER FINALIST★ Andy Degraeve (KU Leuven, Bruges Campus), Joan Peuteman (KU Leuven, Bruges Campus), Davy Pissoort (KU Leuven, Bruges Campus), Keith Armstrong (Cherry Clough Consultants Ltd)
04:30am	TH-PM-II-TC-10-3 Analysis of electromagnetic shielding of IC package with thin absorbing material coating inside in two different configurations (#8778) Wentao Xiong (Shenzhen Univ.), Mei Jiang (Shenzhen Univ.), Mingcheng Zhu (Shenzhen Univ.), Boyuan Zhu (Griffith Univ.), Junwei Lu (Griffith Univ.)	TH-PM-II-TC-04-3 Observation of Electromagnetic Noise from LED Shadowless Lights (#9658) Kai Ishida (National Inst. of Information and Communications Technology), Tomoe Yoshida (Kitasato Univ.), Sazu Arie (National Inst. of Information and Communications Technology), Masaki Matsuzuki (Mie Univ. Hospital), Eisuke Hanada (Saga Univ. Graduate School of Science and Engineering), Minoru Hirose (Kitasato Univ.)	TH-PM-II-TC-02-1 Non-contact Monitoring Method for Overvoltage Based on Pockels Effect (#9087) Jun Deng, Hai Qian, Jinwei Chu, Zhiliang Lu, Liang Zhang, Zhicheng Xie, Zhilong Zou (Extra-High Voltage Transmission Company of China Southern Power Grid)
04:50pm	TH-PM-II-TC-10-4 A Novel BG-Triggered ggmMOS Structure for FDSOI ESD Protection (#9450) Lizhong Zhang, Yuan Wang, Xiaotian Chen, Yandong He, Ru Huang (Peking Univ.)	TH-PM-II-TC-04-4 An Analytical Approach for DC-Link DM Filter Design for PM AC Motor Drives (#9380) Dragan Micic (Woodward Inc)	TH-PM-II-TC-03-1 Safety Aspects of LTE Wearable Antenna (#9962) Haim Matzner (HIT-Holon Inst. of Technology), Ely Levine, Shimon Kahlon (Afeka college of Engineering)
05:10pm	TH-PM-II-TC-10-5 Improved Topology of DC Capacitors for Differential Mode Noise Mitigation in Inverter (#9561) ★BEST STUDENT PAPER FINALIST★ Ousseynou Yade, Arnaud Breard, Christian Martin, Christian Voltaire (Université de Lyon), Regis Meuret (Labinal Power Systems), Marwan Ali (Université de Lyon)	TH-PM-II-TC-04-5 Relay Switching at Zero-Crossing Point of Grid Voltage to Eliminate the EFT Interference (#9478) Minchao Huang (Minye Information Technology (Shanghai) Co., Ltd.), Zhenghua Gu (R&D Dept. Zettler China Xiamen), Qingsheng Zeng (Shanxi University), Xia Xiao (R&D Dept. Zettler China Xiamen)	TH-PM-II-TC-03-2 Fields and Current Densities Induced in the Human Body by Low-frequency Electromagnetic Fields (#9038) Patricio E. Munhoz-Rojas, Cresencio Silvio Segura-Salas, Alexandre A. Costa (Institutos Lactec), Rafael Martins, Josef Hoffmann-Neto (COPEL G&T)

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

Rooms	Room #334	Room #335	Room #336
03:50pm – 05:30pm	<p>TM-03: Efficient and Accurate Simulation of Multi-scale EMC &amp; SI/PI (IV)</p> <p>Chair(s): Xingchang Wei (Zhejiang Univ., China) Chao-Fu Wang (National Univ. of Singapore)</p>	<p>SS-06: Design and Modeling of Emerging EM Components and Devices (II)</p> <p>Chair(s): Zhixiang Huang (Anhui Univ., China) Min Hu (Univ. of Electronic Science and Technology of China)</p>	<p>TC-07: Low Frequency EMC</p> <p>Chair(s): Petre-Marian Nicolae (Univ. of Craiova, Romania), Flavia Grassi (Politecnico di Milano, Italy)</p>
03:50pm	<p>TH-PM-II-TM-03-1 Electromagnetic Interference Investigation of PCB in Metallic Enclosures Using ADI-FDTD Method (#9576)</p> <p>Liang Chen, Min Tang, Junfa Mao (Shanghai Jiao Tong Univ.)</p>	<p>TH-PM-II-SS-06-1 An Integrated UHF/UWB Tag Antenna with Radome for Indoor Positioning System (#10057)</p> <p>Da Li, Zhongxiang Shen, Er-Ping Li (Zhejiang Univ.)</p>	<p>TH-PM-II-TC-07-1 Extraction of Voltage-Dependent Capacitances of SiC Device through Inductive Coupling Method (#8886)</p> <p>★BEST EMC PAPER FINALIST★ ★BEST STUDENT PAPER FINALIST★</p> <p>Zhenyu Zhao, Kye-Yak See, Eng-Kee Chua, Arun Shankar Narayanan, Arjuna Weerasinghe (Nanyang Technological Univ.), Wayne Chen (SMRT Corporation Ltd.)</p>
04:10pm	<p>TH-PM-II-TM-03-2 Exploration of Characteristic Mode Theory for Electromagnetic Compatibility Modeling (#9431)</p> <p>Sai Ho Yeung, Chao-Fu Wang (National Univ. of Singapore)</p>	<p>TH-PM-II-SS-06-2 Microwave Plasmonic Waveguides and Devices (#10266)</p> <p>Hui Feng Ma, Meng Wang, Hao Chi Zhang (Southeast Univ.)</p>	<p>TH-PM-II-TC-07-2 Influence of Mutual Coupling on Parasitic Capacitance in Common Mode Chokes (#8893)</p> <p>Niek Moonen (Univ. of Twente), Anne Roc'h (Eindhoven Univ. of Technology), Frank Leferink (Univ. of Twente and THALES, Netherlands)</p>
04:30am	<p>TH-PM-II-TM-03-3 Study on EMC of Backplane Interconnect System Based on Interference Correlation (#9469)</p> <p>Aixin Chen (Beihang Univ., Li Wang (Beihang Univ.), Wenbin Wu (Beijing Inst. of Aerospace Microsystems)</p>	<p>TH-PM-II-SS-06-3 Frequency dependent capacitance of metal semiconductor metal varactor diode and its tunable filter application (#9363)</p> <p>Chien-Fu Shih, Liann-Be Chang, Der-Hwa Yeh, Tung-Wuu Huang (Chang Gung Univ.)</p>	<p>TH-PM-II-TC-07-3 Analytical Calculation of Transformer Parameters by S-Parameters (#9355)</p> <p>Jianquan Lou, Alpesh Bhobe, Yingchun Shu, Jinghan Yu (Cisco Systems (China) R&amp;D Co., Ltd.)</p>
04:50pm	<p>TH-PM-II-TM-03-4 Efficient Inductive Coupled In-circuit Impedance Extraction with Enhanced SNR and Instrument Protection (#9527)</p> <p>Fei Fan, Kye-Yak SEE, Kangrong Li, Joseph Kiran Banda (Nanyang Technological Univ.), Xiong Liu, Amit Kumar Gupta (Rolls-Royce Singapore Pte. Ltd.)</p>	<p>TH-PM-II-SS-06-4 A Compact Antenna for UWB Indoor Positioning (#10077)</p> <p>Binfang Wang, Wei-Jiang Zhao (Inst. of High Performance Computing)</p>	<p>TH-PM-II-TC-07-4 Modeling and Simulation of Switching Characteristics of Half-Bridge SiC Power Module in Single Leg T-type Converter for EMI Prediction (#9387)</p> <p>Yong Liu, Kye-Yak See, Zhenyu Zhou (Nanyang Technological Univ.), Rejeki Simanjorang (Applied Technology Group, Rolls-Royce Singapore), Ziyou Lim, Zhenyu Zhao (Nanyang Technological Univ.)</p>
05:10pm			<p>TH-PM-II-TC-07-5 About the Immunity of the Equipment used to Monitor the Units of Power Transformers (#9379)</p> <p>Petre-Marian Nicolae, Ileana-Diana Nicolae (Univ. of Craiova), Dumitru Sacerdotianu (ICMET)</p>

## Interactive Forum Sessions – Tuesday Afternoon, 15 May 2018

15 May 2018, Tuesday 1:30-3:30pm  
Venue: Foyer (outside Room #331 to #336), Level 3

Chair(s): Hui Min Lee (Inst. of High Performance Computing, Singapore),  
Eng Kee Chua (Nanyang Technological Univ., Singapore)

### TU-PM-I-FOR-1

#### Analyzing the Model of Transformer Windings Under Very Fast Transient Overvoltage (#9910)

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

### TU-PM-I-FOR-2

#### Paper-Like Fesial/Cellulose Nanofiber Composite (#10281)

Jiagen Jiang, Peiheng Zhou, Wenxin Li, Xiaojia Luo, Wanli Chen, Longjiang Deng, Yang Zhou, Guorui Zhang, Fengxia Li (Univ. of Electronic Science and Technology of China)

### TU-PM-I-FOR-3

#### Experimental Study of the Properties of Metamaterials Using Broadside-Coupled Split Ring Resonators (#9451)

Morimichi Itoh (Osaka Research Inst. of Science and Technology), Shinichiro Yamamoto (Univ. of Hyogo), Kenichi Hatakeyama (Univ. of Hyogo)

### TU-PM-I-FOR-4

#### ESD Housing Effect (#9086)

Bruce Zhao (Cisco Systems Inc.)

### TU-PM-I-FOR-5

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

Can Bayseferogullari, Mustafa Ural (Aselsan Inc.)

### TU-PM-I-FOR-6

#### Amplitude Characteristics of Frequency Band-limited LED Emission for Evaluation of Impact on Wireless Medical Telemeter (#10076)

Sazu Arie (National Inst. of Information and Communications Technology (NICT)), Kai Ishida (National Inst. of Information and Communications Technology (NICT)), Minoru Hirose (Kitasato Univ.)

### TU-PM-I-FOR-7

#### Electromagnetic Compatibility of Industrial Robots Caused by Power Supply Networks (#10100)

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

### TU-PM-I-FOR-8

#### Antenna Diversity Method for Emission Measurements in a Reverberation Chamber (#10113)

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

### TU-PM-I-FOR-9

#### Nonlinear Dielectric Behaviour of Semiconductor Material under Microwave Field (#10159)

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

### 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 Inst. 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 Univ.)



## Interactive Forum Sessions – Tuesday Afternoon, 15 May 2018

15 May 2018, Tuesday 1:30-3:30pm  
Venue: Foyer (outside Room #331 to #336), Level 3

Chair(s): Hui Min Lee (Inst. of High Performance Computing, Singapore),  
Eng Kee Chua (Nanyang Technological Univ., Singapore)

### TU-PM-I-FOR-12

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

Myunghoi Kim (Hankyong National Univ.), Dongkyu Roh, Sungseok Jung, Kyumin Kwak (LIG Nex1 Co., Ltd., Daejeon, Korea),

### TU-PM-I-FOR-13

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

Chenyu Wang, Kengo Iokibe, Yoshitaka Toyota (Okayama Univ.)

### TU-PM-I-FOR-14

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

Xiong Chen (Xi'an Jiaotong Univ.), Qianwen Chen (Hunan University), Yongning He (Xi'an Jiaotong Univ.)

### 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 (Univ. of Electronic Science and Technology of China)

### TU-PM-I-FOR-16

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

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

### TU-PM-I-FOR-17

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

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

### TU-PM-I-FOR-18

#### Ultralow-noise Isolated Switch-Mode Power Supply (#10292)

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

### 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, Joungho Kim (Korea Advanced Inst. of Science and Technology)

### 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 (Univ. 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 (Univ. of Electronic Science and Technology of China)

### TU-PM-I-FOR-22

#### Planar Hybrid Common Mode Filter (#10351)

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

## Interactive Forum Sessions – Wednesday Afternoon, 16 May 2018

16 May 2018, Wednesday 12:00-2:00pm  
Venue: Foyer (outside Room #331 to #336), Level 3

Chair(s): Hui Min Lee (Inst. of High Performance Computing, Singapore),  
Eng Kee Chua (Nanyang Technological Univ., Singapore)

### WE-PM-I-FOR-1

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

*Eng Leong Tan, Ding Yu Heh (Nanyang Technological Univ.)*

### WE-PM-I-FOR-2

**The Vlf Field Generated by the Loop Antenna In The Ionosphere (#9113)**

*Hui Ran Zeng (Zhejiang Univ.)*

### WE-PM-I-FOR-3

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

*Zhuhong Lin (Zhejiang Univ.)*

### WE-PM-I-FOR-4

**Immunity Tests in a Reverberation Chamber Using a Correction Factor (#9975)**

*Sang il Kwak, Jung-Hwan Hwang, Dong-uk Sim, Jong-Hwa Kwon (Electronics and Telecommunications Research Inst.)*

### WE-PM-I-FOR-5

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

*Yun Li (China Academy of Space Technology (Xi'an)), He Bai (Xi'an Jiaotong University), Wanzhao Cui, Jun Li, Xiang Chen, Rui Wang, Xinbo Wang, Tiancun Hu*

### WE-PM-I-FOR-6

**The Study of Strong Terahertz Wave as Future Electromagnetic Pulses (#8657)**

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

### WE-PM-I-FOR-7

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

*Lei Zhang, Zhihua Zhao, Jianxuan Li, Jin Meng (Naval Univ. of Engineering)*

### WE-PM-I-FOR-8

**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 Univ.), Sheng-quan Zheng, Yu Zuo, Li-Tao (Science and Technology on EMC Laboratory)*

### WE-PM-I-FOR-9

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

*Xiao Jia Huang, Mei Song Tong (Tongji Univ.)*

### 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))*

### WE-PM-I-FOR-11

**An EMC Perspective of the Benefits of a Seawater Antenna over a Metal Antenna (#8922)**

*Zhou Liang, Wang Qing, Wu Hao, Meng Jin (Navy Univ. of Engineering)*

## Interactive Forum Sessions – Wednesday Afternoon, 16 May 2018

16 May 2018, Wednesday 12:00-2:00pm  
Venue: Foyer (outside Room #331 to #336), Level 3

Chair(s): Hui Min Lee (Inst. of High Performance Computing, Singapore),  
Eng Kee Chua (Nanyang Technological Univ., Singapore)

### WE-PM-I-FOR-12

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

Peng He (Ningbo Entry-Exit Inspection and Quarantine Bureau Technical Center of the PR China), Yueping Yang, Lei Zhou (State Grid Zhejiang Ninghai Country Power Supply Company), Lu Jia, Ping Yu, Zhuoyuang Wang (Ningbo Institute), Yuguang Hong, Ningfeng Zhu (State Grid Zhejiang Ninghai Country Power Supply Company)

### 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 Inst. 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 Univ.)

### WE-PM-I-FOR-15

#### Estimation of Induced Positions of External Electromagnetic Fields by Measuring Waveform at Both Ends of Transmission Line (#9480)

Xiangyu Chen, Toshikazu Sekine, Yasuhiro Takahashi (Gifu Univ.)

### WE-PM-I-FOR-16

#### Analysis of Interference 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 Inst. 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 (VCCI Council/S-Tech Inc.), Masaru Yoshihara (VCCI Council/Riken Environmental System Co., Ltd.), 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, Guangyu Zhang, Li Jiang (China Automotive Technology and Research Center)

### WE-PM-I-FOR-19

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

Yongzhi Zhao, Shaodong Wang, Hongjiang Wu (Hebei Semiconductor Research Inst.)

### WE-PM-I-FOR-20

#### Broadband Lumped Circuit Parameter Extraction Method Based on PEEC (#9332)

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

### WE-PM-I-FOR-21

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

Sung-Mao Wu, Sheng-Wei Guan, Cheng-Dao Li, LiXuan Tsai, Chun-Ting Kuo (Advanced Packaging Integrated Technology Center College of Engineering, National Univ. of Kaohsiung), Chia-Hung Su (Electronics Testing Center), Ming-Kun Hsieh (Bureau of Standards, Metrology and Inspection, M.O.E.A.)

### 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 Univ.)

## Interactive Forum Sessions – Wednesday Afternoon, 16 May 2018

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

Venue: Foyer (outside Room #331 to #336), Level 3

Chair(s): Hui Min Lee (Inst. of High Performance Computing, Singapore),  
Eng Kee Chua (Nanyang Technological Univ., Singapore)

### WE-PM-II-FOR-1

#### 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-2

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

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

### WE-PM-II-FOR-3

#### 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 (Univ. of Electronic Science and Technology of China)

### WE-PM-II-FOR-4

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

Ping Xu, Jiahe Mei, Jiahui Qin (Harbin Engineering Univ.)

### WE-PM-II-FOR-5

#### 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 (Univ. of Electronic Science and Technology of China)

### WE-PM-II-FOR-6

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

Xiang Lan, Min Zhang (Xidian Univ.)

### WE-PM-II-FOR-7

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

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

### WE-PM-II-FOR-8

#### The Impact of TID Effect on EMS of PDSOI Voltage Reference Circuits (#10327)

ZhiHang An (Beijing Jiaotong Univ.), Binhong Li (Inst. of Microelectronics of Chinese Academy of Sciences), Jianfei Wu (National Univ. of Defense Technology)

### WE-PM-II-FOR-9

#### Electromagnetic Coupling Effects of Spacecraft Solar Panel (#8692)

Bao-Feng Cao, Yi Zheng (Research Inst. of Chemical Defense), Jian-Xun Su (Communication Univ. of China), Xue-Qin Zhang, Xin Li (Research Inst. of Chemical Defense), Lin Quan (Inst. 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 Univ.)

### 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 Univ.)

### WE-PM-II-FOR-12

#### Time Domain FEM Computational Approach for Calibration of Surface Scan Method (#9210)

Susanne Bauer, Andreas Gleinser, Gergely Koczka, Gunter Winkler, Oszkar Biro, Bernd Deutschmann (Graz Univ. of Technology)