

Time	Room 1: Session	Paper ID	Paper Title	Authors	Room 2: Session	Paper ID	Paper Title	Authors	Room 3: Session	Paper ID	Paper Title	Authors	
8:00-8:20 8:20-8:40 8:40-9:00													
9:00-9:20	Paper 1	157088873	Efficient Integral Equation Analysis of 3D Rectangular Waveguide Microwave Circuits by using Green's Functions Accelerated with the Ewald's Method	PLENARY TALK 1: Mahta Moghaddam (University of Southern California), Antonio Hudcar, Alejandro Alvarez-Melcon, Celia Gomez Molina and Fernando D'Almeida Pereira (Technical University of Cartagena, Spain), Vicente Boria (Universidad Politécnica de Valencia, Spain)	Special Session 16: Electromagnetic Information Theory and Computation for Wireless Technologies and MIMO Antennas	157089064	An Efficient Total Radiated Power Test Method Based on Optimal Interpolation Over a Sphere of Large Antenna Array	Fangyun Peng, Xiaoming Chen, Shan Huang and Anxun Zhang (Xi'an Jiaotong University, China); Wei E. I. Sha (Zhejiang University, China)					
9:20-9:40	Paper 2	157088906	Fast block Krylov subspace methods for solving sequences of dense MoM linear systems with multiple right-hand sides	Bruno Carpentieri (Free University of Bozen-Bolzano, Italy), Donglin Sun (Changchun University, China), Ting Zhu Huang (University of Electronic Science and Technology of China, China), Yun-Fei Jing (University of Electronic Science and Technology of China, China), Maurizio Tavelli (Free University of Bozen-Bolzano, Italy)		157089209	Effects of Mutual Coupling in Holographic MIMO Communications	Shuai S. A. Yuan and Wei E. I. Sha (Zhejiang University, China)					
9:40-10:00	Paper 3	157088916	Analysis of Microstrip Structures with Thick Metallization	Eduard Ubeda (Universitat Politècnica de Catalunya (UPC), Spain), Juan M. Rius (Universitat Politècnica de Catalunya, Spain)		157089226	Advances in Hybrid Propagation Modeling for RS-Enabled Communication Channels	Yuanhui Liu and Costas D Sarris (University of Toronto, Canada)					
10:00-10:20	Paper 4	157088917	Non-conforming SIE Methods in Plasmonics	Victor Martín (Universidad de Extremadura, Spain), Daniel Ierico and Diego M. Solís (University of Extremadura, Spain), Luis Landesa (Universidad de Extremadura, Spain), Fernando Obelleiro and José Rodríguez (University of Vigo, Spain), José M. Taboada (University of Extremadura, Spain)		157089229	Experimental Studies of Source Reconstructions with the Time Reversal Method in a Conductor Cavity	Zhihang (David) Chen (Dalhousie University, Canada); Jun Gu, Juan Li, Zhong Zhou and Yuehe Ge (Fuzhou University, China)					
10:20-10:40	COFFEE BREAK												
10:40-11:00	Paper 5	157089216	Fokas-Based Dirichlet-to-Neumann Operators for Accurate Signal Integrity Assessment of Interconnects	Martijn Huybre (Ghent University & imec, Belgium), Dries Boerman, Daniel De Zutter and Dries Vandenberghe (Ghent University, Belgium)	Special session 9: "Modeling-Based Wide-Band Electromagnetic Characterization of Materials"	157088889	Modelling-Based large surface testing of LTCC and ULCC substrates for antenna array design	Marama Olzawska Placha (QWED Sp. z o.o., Poland); Dorota Swagierczak (Lukasiewicz Institute of Microelectronics and Photonics, Poland); John Warghese (Fraunhofer IPTS, Germany); Janusz Rudnicki (QWED Sp. z o.o., Poland); Martin Ihle (Fraunhofer Institute for Ceramic Technologies and Systems IKT, Germany); Steffen Ziesche (Fraunhofer IKT, Germany); Beata Synkiewicz-Musialka (Lukasiewicz Institute of Microelectronics and Photonics, Poland)					
11:00-11:20	Paper 6	157089219	Telescope Coronagraph Focal Plane Mask Design Using the Method of Moments and a Constrained Least Squares	Su Yan and Lalla Wize (Howard University, USA), Pin Chen (California Institute of Technology, USA)		157088890	Simulation supported EM testing of battery anodes with 2D dielectric resonator scanner	Marama Olzawska Placha (QWED Sp. z o.o., Poland); Athanasios Masouras (PLEIONE Energy S.A., Greece); Andrzej Witekowski (QWED Sp. z o.o., Poland); Norella Chotata (PLEIONE Energy S.A., Greece); Malgorzata Chotata (QWED, Poland)					
11:20-11:40	Paper 7	157089214	Electromagnetic Analysis of High-Speed Interconnects with H-matrix Accelerated RWG MoM Solution of Layered Media Mixed Potential Integral Equation	Shucheng Zheng and Vladimir Okhmatovskiy (University of Manitoba, Canada)		157089225	Impedance Standard Substrate EM-Simulation for On-wafer GSG probing	Kamel Haddadi and Cerine Mokhtari (University of Lille / IEMN CNRS8320, France)					
11:40-12:00	Paper 8	157089215	Elimination of Low-Frequency and Oversampling Breakdowns in Scattering Problems on Dielectric Objects with Magnetic Current Based Surface-Volume-Surface Electric Field Integral Equation	Omar Goni and Vladimir Okhmatovskiy (University of Manitoba, Canada)		157089224	On-Wafer Millimeter-Wave Measurements Augmented with Nanorobotics	Cerine Mokhtari (University of Lille / IEMN CNRS8320, France); Clement Lencor (University of Lille & IEMN CNRS8320, France); Mohamed Sebbaiche (IEMN CNRS, France); Kamel Haddadi (University of Lille / IEMN CNRS8320, France)					
12:00-12:20 12:20-12:40 12:40-13:00 13:00-13:20 13:20-13:40 13:40-14:00	LUNCH BREAK / Workshop: Fast Algorithms of Computational Electromagnetics (Berkeley Lab)												
	PLENARY TALK 2: Rajen Murugan (Texas Instruments) - Multiphysics Modeling in Semiconductor Design												
14:00-14:20	Paper 1	157089008	Performance of a Broadband Multilevel Fast Multipole Method based on Vector Wave Functions (USA)	Sanjay Velamparambil (ANSYS Inc., USA)	Advanced Methods for the Design of Filters and Transmission Lines	157088859	Multiphysics Design of Dielectric-Coated 5-Band Filter with a Screw-Free Tuning Method	Chang Che (The Chinese University of Hong Kong, Hong Kong); Tao Zhou (Southern University of Science and Technology, China); Ming Yu (The Chinese University of Hong Kong, Hong Kong)					
14:20-14:40	Paper 2	157089003	Multi-Scale Modeling of RF Cavity Resonance with Fast Direct Solvers and Bayesian Optimization	Yang Liu (Lawrence Berkeley National Laboratory, USA)		157088910	Filter Design Method using Small Data Set Trained CNN Models for Parameter Extraction	Giulio Chiyemi, Paul Loforge and Abdul Bas (University of Regina, Canada)					
14:40-15:00	Paper 3	157089188	Using Tucker Compressed Volume Integral Equation Methods to Accelerate the Estimation of Ideal Current Patterns in MRI	Ilias I Giannakopoulos (NYU Grossman School of Medicine & NYU Langone Health, USA); Riccardo Lattanzi (NYU Grossman School of Medicine, USA)		157089221	ANN-enabled Mapping Between Equivalent Circuit Model and Physical Field Model for Tunable Bandpass Filter	Chandan Roy (Polytechnique Montreal, Canada); Ke-Wu (Polytechnique Montreal, Canada)					
15:00-15:20	Paper 4	157089209	Characteristic Mode Modeling of Electromagnetic Scattering from Complex Objects	Chao-Fu Wang (National University of Singapore, Singapore)		157089100	Dissipative Analysis of Liquid Crystalline Loaded Passive Reconfigurable Transmission Line Components with Filled Vias at 60 GHz	Jinfeng Li (Beijing Institute of Technology, China & Imperial College London, United Kingdom (Great Britain))					
15:20-15:40	COFFEE BREAK												
15:40-16:00	Paper 5	157088870	Tensor Train Completion of System Tensor in FFT-Accelerated Integral Equations Simulators	Hao Cong (Nanyang Technological University, Singapore); Mingqi Wang (Xpencil Company Limited, China); Xi Wang and Xiadan Jia (Nanyang Technological University, Singapore); Chao-Fu Wang (National University of Singapore, Singapore); Abdulkadir C Yucel (Nanyang Technological University, Singapore)	Special session 11: "TEM and Hybrid Methods"	157088959	Matrix-Free Time-Domain Method Truncated with PML in Unstructured Meshes	Vinicius Cabral Do Nascimento and Dan Jiao (Purdue University, USA)					
16:00-16:20	Paper 6	157088912	Joint Inversion of Electrical Impedance, Microwave and Ultrasound Data With Structural Feature Fusion for Human Thorax Imaging	Zhihao Liu, Rui Guo, Ke Zhang, Haolin Zhang, Maokun Li, Fan Yang and Shenhong Xu (Tsinghua University, China); Jina Abubakar (Schlumberger-Doll Research, USA)		157089217	An Efficient Solution of Low-Frequency Magnetic Problems With Voltage Sources Using All-Frequency Stable Formulation	Minyechi Mekonnen and Su Yan (Howard University, USA)					
16:20-16:40	Paper 7	157089193	On Compressibility of H-matrix Blocks Resulting from Locality-Corrected Fastwood Method Discretization of EFIE and MFIE	Omid Babaazadeh (University of Manitoba, Canada); Emrah Sezer (ASELSAN Inc., Turkey); Reza Ghahani (University of Toronto, Canada); University of Manitoba, Canada); Ian Jeffrey (University of Manitoba, Canada); Constantine Sideris (University of Southern California, USA); Vladimir Okhmatovskiy (University of Manitoba, Canada)		157089213	A Hybrid DGTD and FDTD-FL Method for Solving Field-to-Wire Coupling Problems	Xuebin Qin and Qiang Ren (Beihang University, China)					
16:40-17:00 17:00-17:20 17:20-17:40 17:40-18:00 18:00-18:20 18:20-18:40 18:40-19:00	Paper 8	157089189	Integral equation for analyzing cell's response to device E-Fields	David Czerwonky and Luis Gomez (Purdue University, USA)	PLENARY TALK 3: Dan Jiao (Purdue University) - Computational Techniques and Design Automation for Semiconductors								
19:00-22:00	RECEPTION												

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8:00-8:30 8:30-8:40 8:40-9:00	Special session 4, "Focus Session on Commercial Topics"	PLENARY TALK 1: Oscar Bruno (CaTech) - Accelerated Green function Methods for Electromagnetic Simulation, Optimization and Design										
157088890		Uncertainty Quantification in Commercial Software Tools for Electrically Large Antennas and Platforms	Erik Jørgensen, Mustafa Murat Bilgi, Oscar Borrini, Peter Meincke, Tony Rubæk and Min Zhou (TICA, Denmark)	Special session 1, The 30th Anniversary of space mapping: Retrospective, Applications and Advances	157088778	Port Tuning	James C. Rautio, Bonnet Software, Inc., USA	157088904	Nanometric HDZ as dielectric material in Metal-insulator-Metal devices experimental characterization and DFT. Pierluigi Stria (University of Arcona, Italy), Davide Mercarelli (Università Politecnica delle Marche, Italy), Luca Pierantoni (Università Politecnica delle Marche, Italy), Martino Aldrigo (IMT Bucharest, Romania), Mircea Dragoman (National Institute for Research and Development in Microtechnology (IMT), Romania), George Deligeorgis (Foundations for Research and Technology Hellas, Greece), Ehab Mohabbi (Marche Polytechnic University, Italy)	Eleonora Pavoni (Marche Polytechnic University, Italy), Emiliano Laudadio and Pierluigi Stria (University of Arcona, Italy), Davide Mercarelli (Università Politecnica delle Marche, Italy), Luca Pierantoni (Università Politecnica delle Marche, Italy), Martino Aldrigo (IMT Bucharest, Romania), Mircea Dragoman (National Institute for Research and Development in Microtechnology (IMT), Romania), George Deligeorgis (Foundations for Research and Technology Hellas, Greece), Ehab Mohabbi (Marche Polytechnic University, Italy)		
9:00-9:20	Paper 1	157088913	Efficient design of 5G and 6G front ends using EMPREXPU	Winfried Simon, Marta Acías Campo, Aline Friedrich, Oliver Lütke, Andreas Lauer and Simon Brun (AMT GmbH, Germany)	157088830	Recent Advances in Mesh Morphing-Embedded Space Mapping Optimization	Di Zhou and Feng Feng (Tianjin University, China), Jianan Zhang (Southeast University, China), Jing Jiu (Central China Normal University, China), Wei Zhang (Beijing University of Posts and Telecommunications, Canada), Shoua Yin (Tianjin Polytechnic University, China), Qian Zhang (Carleton University, Canada)	157088920	Tunneling Nonreciprocity in Metal Contacts with Rough Surfaces	Atsuo Schuchinsky (University of Liverpool, United Kingdom (Great Britain))		
9:20-9:40	Paper 2	157088918	Advanced CEM Solutions in Altair Feko	Cl Raddy (Altair, USA)	157089168	Port Tuning and Tuning Space Mapping	Guangyong Wang (Southern University of Science and Technology, China), Zhen Zhang (Guangzhou University, China), Qinghua Cheng (Southern University of Science and Technology, Shenzhen, China)	1570891803	A Fast Modelling Based Technique for the Characterization of Graphene-Based Polymer Composites	Lukasz Nowicki (ZSWED Sp. z o.o., Poland), Karolina Fijał (Warsaw University of Technology, Poland), Malgorzata Celuch (ZSWED, Poland), Marisuz Zsótyek (Warsaw University of Technology, Poland), Marzena Ciszowska-Fijał and Janusz Rudnicki (ZSWED Sp. z o.o., Poland)		
9:40-10:00	Paper 3	157088977	Cutting Edge Analysis of RAN/Edge Compute Nodes for 5G Systems	Laila Salman (ANSYS Inc., Canada)	157088820	Surrogate-Assisted Electromagnetic-Focused Multiphysics Modeling and Optimization: An Overview	Tong Zhai and Wei Zhang (Beijing University of Posts and Telecommunications, Canada), Feng Feng (Tianjin University, China), Hesia Zhang and Zhiguo Zhang (Beijing University of Posts and Telecommunications, China)	1570892277	Bi-layered Magnetic Interference Shields with Thinner Metals	Ghaleb Al Duhi and Mariameh Raj Pulugurtha (Florida International University, USA)		
10:00-10:20	Paper 4	COFFEE BREAK										
10:20-10:40		1570889168	Recent Developments in the Sonnet Electromagnetic Analysis Software	Brian Rautio (Sonnet Software, Inc., USA), James C. Rautio (Sonnet Software, Inc., USA)	157088964	Method of Signaling Analysis including Inter Effect for Large Scale Nonlinear Channel and Links	Yuhang Dou (Xiamen University, China), Dan Jiao (Purdue University, USA), Jianfang Zhu (Intel Corporation, USA)	1570889212	Microwave heating of the water film coated on the metal surface based on the microwave-coupled energy	Zihan Huang (Sichuan University, China), Haosheng Zhu (Sichuan University, China), Ce Wang and Yang Tang (Sichuan University, China)		
10:40-11:00	Paper 5	1570892280	Addressing EM Simulation Challenges for 2.5D/3D IC Designs	Jonathan Annonson (EDMWorks Inc., Canada), Feng Ling (Xpedic Technology Inc., USA)	1570893249	Virtual Transceiver Matrix for Future Programmable Wireless Sensing and Communication Frontends	Seyed Ali Kivkani (Ecole Polytechnique de Montreal, Canada), Pascal Bursac (Ecole Polytechnique, Canada), Xu Wu (Polytechnique Montreal, Canada)	1570893274	Enhancement of Sensitivity of Radio Frequency based Biosensors Detection in the Presence of Gold Nanoparticles: A Feasibility Study	Aneeta Masumder (IIT, Hyderabad, India), Prabhakar Bhimadrapati (IIT, Hyderabad, India), Aseemuddin Syed (International Institute of Information Technology (IIT) Hyderabad, India), Tapan Kumar Sahu (IIT-Hyderabad, India)		
11:00-11:20	Paper 6				1570895445	Design and Analysis of Reconfigurable Cylindrical Dielectric Resonator Antenna for Sub-5 GHz 5G Application	Pinika Ranjan (Indian Institute of Information Technology & Management, India), Jayant Rai (ABV-ITM GWALIOR, India)	1570897947	Effects of focalization length and spatial disorder on a charge carrier mobility in organic disordered semiconductors	Seyfan Kelli Shukri (Sidaa University, Ethiopia)		
11:20-11:40	Paper 7				1570888769	Mutual Coupling Reduction Between Closely Packed Microstrip Patch Antennas Using Parallel Coupled-Line Resonators	Baytulhah Bodur (Itisbanul Inc., Turkey)					
11:40-12:00	Paper 8	LUNCH BREAK - 15/Min Expert Panel: W. Beyene (Metal, K. Cui (Intel), C. Cheng (HP Enterprise), J. Hejazi (Nvidia), R. Murgan (TI)										
12:00-12:30 12:30-12:40 12:40-13:00 13:00-13:20 13:20-13:40 13:40-14:00	Special session "Quantum Electromagnetics, Methods and Technologies"	PLENARY TALK 2: Larry Williams (ANSYS) - See the Big Picture with Advanced Engineering Simulation										
1570888432		Finite Element Time Domain Discretization of a Semi-classical Maxwell-Schrodinger Model of a Transmon Qubit	Thomas B. Roth (Purdue University, USA)	Numerical Methods for Periodic Structures, Metasurfaces and Metamaterials	1570888615	Eigenvalue Analysis of Multilayer Periodic Photonic Structures Using the Scattering Matrix Method with FD Staircase	Yijia Cheng (Zhejiang University, China), Wei E. I. Sha (Zhejiang University, China)					
14:00-14:20	Paper 1	1570889342	Fast Volume Integral Equation Based Modeling of Quantum Gate Circuitry	Ruiwei Zhou, Dan Jiao and Zubin Jacob (Purdue University, USA)	1570888390	Efficient Equivalent Circuits Approach for Millimeter Wave Metamaterial Resonators	N. Joseph Christopher and Davide Mancarelli (Università Politecnica delle Marche, Italy), Luca Pierantoni (Università Politecnica delle Marche, Italy), Paolo Russo (Università Politecnica delle Marche, Italy), Leonardo Zappelli (Givson, Italy)					
14:20-14:40	Paper 2	1570891289	Solving the Fully Coupled Time-Dependent Maxwell-Dirac System: A Second-Order Accurate Numerical Scheme	Jul Van den Broeck, Emile Vanderstraeten, Pieter Declercq and Driss Vande Ginste (Ghent University, Belgium)	1570895536	Design and Experimental Evaluation of a Refracting Metasurface	Max Kelly, Mario Phaneuf and Puyan Mojabbi (University of Manitoba, Canada)					
14:40-15:00	Paper 3	1570892206	A Hybrid Classical-Quantum Computing Framework for RIS-assisted Wireless Network	Charan Reddy (University of Illinois at Urbana-Champaign, USA), Gabriele Orlandi (University of Nottingham, United Kingdom (Great Britain)), Zhen Feng (University of Illinois at Urbana-Champaign, USA)	1570895476	ACQingqia Gradient Algorithm for the Design of PEC-Metasurface Pairs for Beam Shaping and Matching	Hans P. Schreineckebach and Puyan Mojabbi (University of Manitoba, Canada)					
15:00-15:20	Paper 4	COFFEE BREAK										
15:20-15:40	Special session 7, "Industry Applications of Fast Algorithms"	PLENARY TALK 2: Larry Williams (ANSYS) - See the Big Picture with Advanced Engineering Simulation										
1570888679		Challenges Faced in Commercial CEM Development	Johann van Tonder (Altair, South Africa), Ulrich Jakobus (Altair Engineering GmbH, Germany)		1570888519	Topological states in the Stampfli triangle photonic crystals	Tianjun Liu (Hunan University, China), Yuchen Feng (Hunan University, Singapore), Bei Yan (Hunan University, China)					
15:40-16:00	Paper 5	1570888959	Meshing Challenges in the Higher-Order Multithreaded Fast Multipole Method	Peter Meincke, Erik Jørgensen and Oscar Borrini (TICA, Denmark)	1570892203	Rapid Optimization of Dielectric Rod Arrays for Microwave Radiation Shaping Applications	Siva Sivar (Middle East Technical University, Turkey), Murat Enes Hatipoğlu (Gebze Technical University, Turkey), Oguz Eris and Cagay Ergul (Middle East Technical University, Turkey), Fatih Dikmen (Gebze Technical University, Turkey)					
16:00-16:20	Paper 6	1570890040	On the Implementation of Laplace and a Broadband Helmholtz Fast Multipole Method as an Application Independent Library	Sanjay Velampararnil (ANSYS Inc., USA)	1570892229	On Regularized T-Matrix Method and its MM- Acceleration Incorporating Oblique Plane mmWave Scattering by Dielectric Cylinders for Antisubreflective DRNG Materials	Murat Enes Hatipoğlu and Fatih Dikmen (Gebze Technical University, Turkey)					
16:20-16:40	Paper 7	PLENARY TALK 2: Larry Williams (ANSYS) - See the Big Picture with Advanced Engineering Simulation										
16:40-17:00	Paper 8	PLENARY TALK 2: Larry Williams (ANSYS) - See the Big Picture with Advanced Engineering Simulation										
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Room 1: Session	Paper ID	Paper Title	Authors	Room 2: Session	Paper ID	Paper Title	Authors	Room 3: Session	Paper ID	Paper Title	Authors
Special session 6: "Machine Learning and AI Methods"	157088683	Performance Investigation of Different Optimization Algorithms in neuro-CMF based Intelligent Design of Metasurfaces	Long Chen, Jianan Zhang, Jingyuan Zhang, Jian Wei You and Tie Jun Cui (Southeast University, China)	Special session 8: "Numerical Methods and Optimization for Detection and Imaging"	1570894853	Feature Based Supervised Deep Learning for 2-D Microwave Imaging of Metallic Targets	Zhiqiao Lin, Rui Guo, Zekui Liu, Mookun Li, Fan Yang and Shengben Xu (Dinghua University, China); Aria Abubakar (Schlumberger-Doll Research, USA)				
Paper 1	1570887078	An Overview of Deep Learning Techniques for Inverse Design of Metasurface	Junjie Hou, Jing Jin, Hai Lin, Xian Liu and Jiaping Fu (Central China Normal University, China); Feng Feng (Tianjin University, China)		1570895093	A Multi-Branch Data-to-Image Neural Network for Electromagnetic Imaging	Keely Edwards, Ben J Martin, Joel Lovett, Colin Gleason and Ian Jeffrey (University of Manitoba, Canada)				
Paper 2	1570888313	The Progress and Prospects of Bayesian-based Automated ANN Model Generation Method for Microwave Modeling	Feng Feng and Jingyuan Cui (Tianjin University, China); Xin Liu (Harbin Institute of Technology, China); Wenyuan Liu (Shaanxi University of Science and Technology, China); Weicong He (Beijing University of Technology, China); Qijun Zhang (Carleton University, Canada)		1570895392	A New Learning Method for Millimeter-Wave Short-Range Imaging	Tianfan Hu, NUS, Singapore; Xudong Chen (National University of Singapore, Singapore)				
Paper 3	1570888322	Samplitude Assisted Multi-State Tuning Driven EM Optimization for Tunable Cavity Filter	Xudong Liu (Beijing University of Posts and Telecommunications, China); Wei Zhang (Beijing University of Posts and Telecommunications, Canada); Zhiqiao Zhang and Huiqin Zhang (Beijing University of Posts and Telecommunications, China)		1570896513	Electromagnetic Inversion in Enclosed Imaging Systems at Resonance: Thoughts and Paths Forward	Colin Gilmore, Seth J Cuthers, Ian Jeffrey and Joel Lovett (University of Manitoba, Canada)				
Paper 4	COFFEE BREAK										
Paper 5	1570888811	Study of X-parameters Modeling for Microwave Power Devices based on ANNs	Lin Qian (Dinghai Nationalities University & No. 10, China); Shaoyang Wang and Xiaodong Wang (Gonghai Minzu University, China); Hanfeng Wu (Gansu Technology Co Ltd, China)		1570895270	Multiple-Space Deep Learning Scheme for Inverse Scattering Problems	Yuesong Wang, Junyue Jiang, Zhongdong Siyuan He and Zhun Wei (Zhejiang University, China)				
	1570888813	3-D Modeling and FEA for ANM by APDL	Lin Qian (Dinghai Nationalities University & No. 10, China); Peng-Fei Zhao (Gansu Minzu University, China); Hanfeng Wu (Gansu Technology Co Ltd, China)		1570889113	Fully Numerical Environment for Evaluating the Robustness of the Short Open Load Calibration for Capacitance Measurements in Scanning Microwave Microscopy	Daniel Richert (Laboratoire National de Métrologie Et d'Essais, France); Shalini Koga and Josi Morán Mesa (LNE, France); Damien Delavayolle (MSA de Lyon & Institut des Nanotechnologies de Lyon (INL)UMR CNRS 5270, France); François Piquemal (LNE, France)				
Paper 6	1570892235	Recent Advances in Generalizable Neural Network Propagation Models	Aristides Seretis and Costas D Sarris (University of Toronto, Canada)		1570888874	Early Detection of Breast Cancer using Diffuse Optical Probe and Ensemble Learning Method	Marayam Moritzahe, Shadi Mostafaei and Ramin Ramesshan (Dimon Fraser University, Canada); Fazel Golrang (SPU, Canada)				
Paper 7	1570890335	Simulation-Inserted Optimization of Four-order Waveguide Filter using Combined Quasi-Newton Method with Lagrangian Method	Xiaolong Li and Feng Feng (Tianjin University, China); Shukai Yin (Tianjin Polytechnic University, China); Wei Zhang (Beijing University of Posts and Telecommunications, Canada); Qijun Zhang (Carleton University, Canada)		1570891364	Dielectrophoresis Characterization of Particles and Cells using Imaging Flow Cytometry	Baham Arzhang, Justyna Liu, James Dietrich, Sara Abouzar, Emrah Kocoz, Eham Salim, Douglas Thomson and Greg Bridges (University of Manitoba, Canada)				
Paper 8	LUNCH BREAK										
	PLENARY TALK 2: Lotfiollah Shafiqi (University of Manitoba): Solution for Maxwellian Fields and Experiment										
Paper 1	1570886874	Efficient Implementation of the Vector-Valued Kernel Ridge Regression for the Uncertainty Quantification of the Scattering Parameter of a 2 GHz Low Noise Amplifier	Nastaran Soleimani, Paolo Manfredi and Riccardo Trincherò (Politecnico di Torino, Italy)	Fast Algorithms	1570892247	Tuning Parameters in the Genetic Algorithm Optimization of the Electrostatic Electron Lenses	Neda Hesam Mahmoudi, Nezhad, Mohammad Aboufarhan, Cornelis W. Haggen and Pieter Krut (Delft University of Technology, The Netherlands)				
Paper 2	1570887515	Reinforcement Learning Applied to the Optimization of Power Delivery Networks with Multiple Voltage Domains	Seunghyup Han and Olaya Waqar (Bharati Institute of Technology, USA); Woo Jin Na (Samsung Electronics, Korea (South)); Madhava Swaminathan (Georgia Institute of Technology)		1570895481	On the Investigation of the Kernels in Gaussian Process Regression for the RCS Prediction of a Conducting Object	Nihat Nebil Gökçepil, Akın Altınoku, Mehmet Erni İnal and Gökül Sezer (ASELSAN Inc., Turkey)				
Paper 3	1570888861	PCU Gen's Physical Layer Equalization Tuning by Using r-emax Clustering	Francisco E. Rangel-Patino (Intel Corporation & ITSDO - The Jesuit University of Guadalajara, Mexico); Andrea Vivero-Warner (Intel Corporation, Mexico); Chintan Rajyaguru (Intel Corporation, USA); Edgar A. Viga-Ochoa, Sofia D. Rodriguez-Garcia and Johana L. Sierra Cortes (Intel Corporation, Mexico); Mananath Shival (Intel Corporation, USA); Jose E. Rayas-Sanchez (ITSDO - The Jesuit University of Guadalajara, Mexico)		1570895502	Resonance Frequency Analysis of the 2D Dielectric Objects with Rigorous Algorithm Based on the Analytical Regularization Method	Emrah Sezer (ASELSAN Inc., Turkey); Fatih Dikmen and Murat Emre Hatipoğlu (Sakarya Technical University, Turkey); Yury A. Tuchin (Gosba Institute of Technology, Turkey)				
Paper 4	1570892150	Multi-Physics Reliability Modeling of Flip-Chip Package Build-Up Film Passivation Crack	Yutaka Suzuki (Texas Instrument Incorporated, USA)		1570891751	Analysis of a circularly-polarized circular and hexagonal dielectric element on a parallel-plate waveguide with perpendicular corporate feed	Takashi Tomura, Hiroki Nishimoto and Jiro Hirokawa (Tokyo Institute of Technology, Japan)				
Paper 5	1570892114	Circuit Modeling of Resonant Cavity Formed by Return Viase	Mika Steinberger (The MathWorks Inc., USA); Donald Talian (SI GPS, USA); Orlando Belfi (Giga Test Lab, USA); Kevin Rowett (KODNN TECH, USA)	Advances in Numerical Techniques	1570891968	The Quantum Matrix Equation Solver for Computational Electromagnetic Problems: Challenges in the NISG Era	Xinbo Li, Ian Jeffrey and Vladimir Okhmatovskii (University of Manitoba, Canada)				
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