

2026 IEEE International Conference on Computational Electromagnetics

Technical Program

April 10-12, 2026

Crowne Plaza Shanghai Nanjing Road
Shanghai, China



<https://iccm2026.tongji.edu.cn/>



2026 Shanghai
ICCEM 10 - 12 April



**2026 IEEE International Conference on Computational
Electromagnetics (ICCEM 2026) will be organized by
Tongji University, Shanghai, China,
on April 10-12, 2026**

For more information about ICCEM 2026, please visit the website at <https://iccem2026.tongji.edu.cn/>

CONTENTS

CONFERENCE VENUE.....	2
TRANSPORTATION	3
CONFERENCE AT A GLANCE	5
CHAIRS' WELCOME	11
SPONSORS.....	13
STEERING COMMITTEE	14
TECHNICAL PROGRAM COMMITTEE.....	15
KEYNOTE SPEECHES	16
SPECIAL SESSIONS	28
ORAL PRESENTATIONS.....	32
INTERACTIVE FORUMS	69
SOCIAL PROGRAM.....	79
ACCOMMODATIONS	80
ACKNOWLEDGEMENT.....	81
AUTHOR INDEX	84

CONFERENCE VENUE

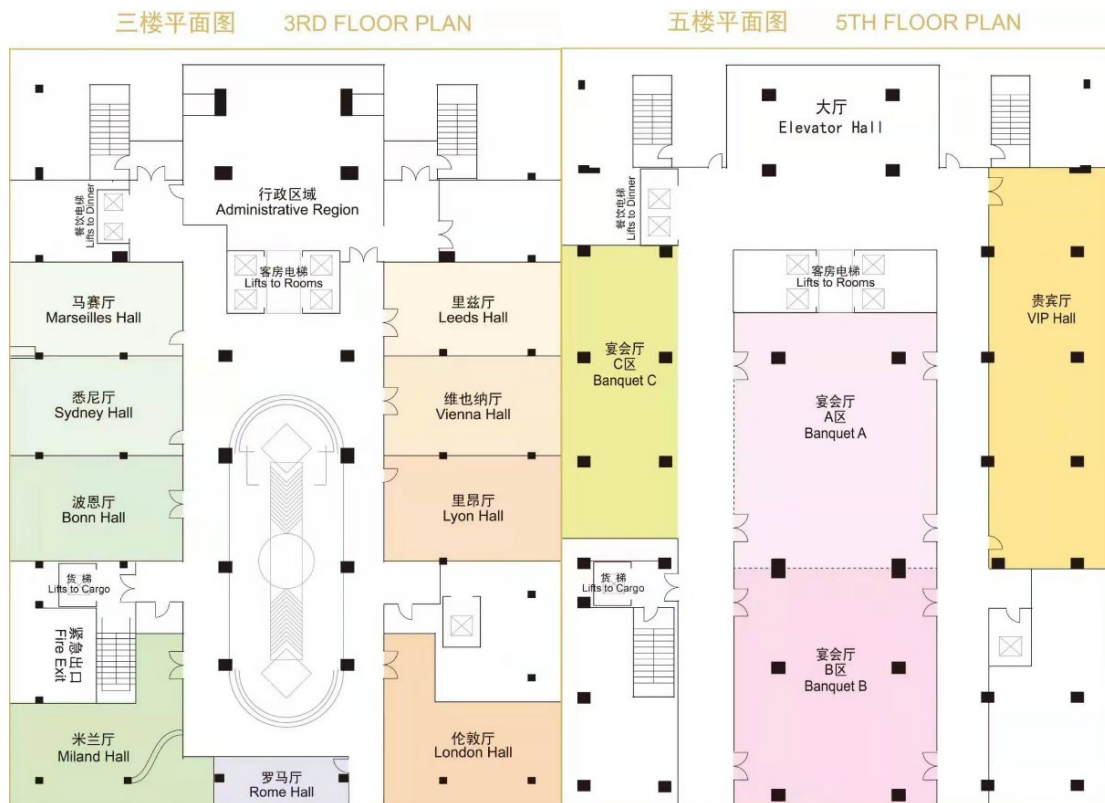
Crowne Plaza Shanghai Nanjing Road

No. 700 Jiujiang Road / No.719 Nanjing Road East, Huangpu District, 200001 Shanghai, P.R, China

Tel: (86) 21 6350 0000*151

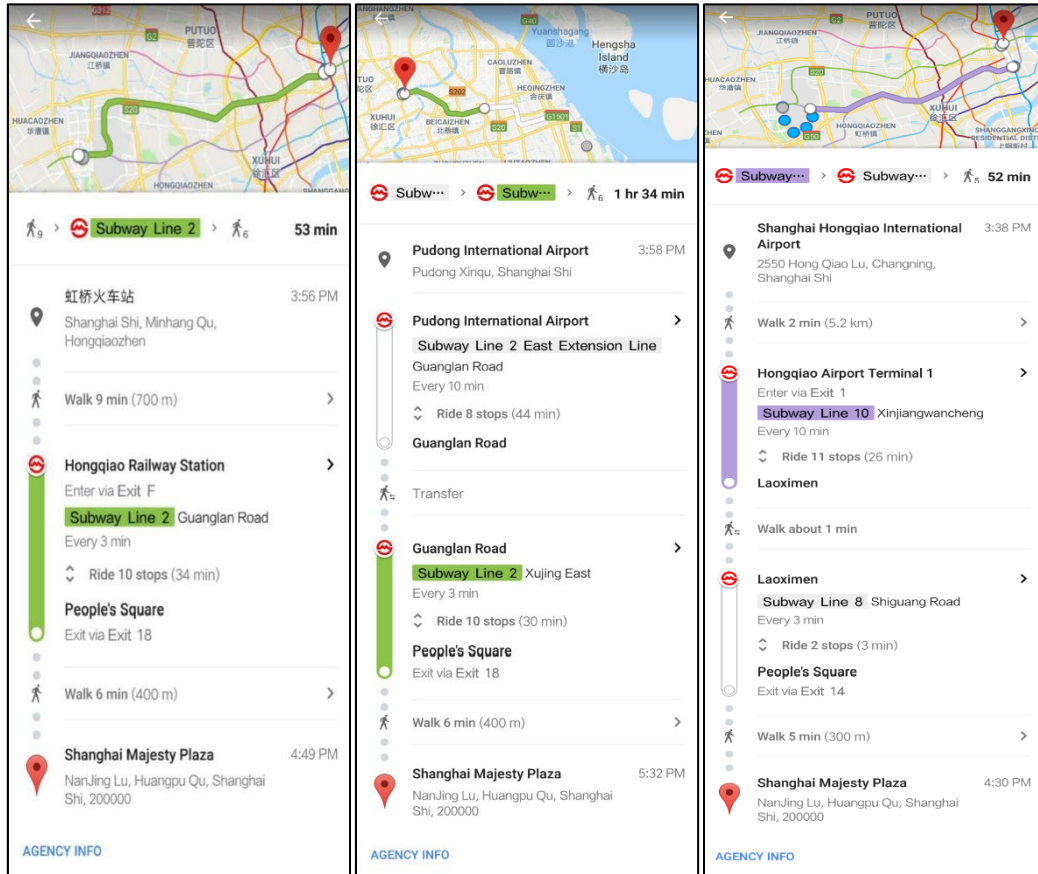
Hotel Reservation: (86) 15201954327

E-mail: Chloe.wang@cpnanxinya.com



TRANSPORTATION

Shanghai has two major airports, Hongqiao international airport and Pudong international airport. The two airports, located in the east and west of Shanghai, respectively, are about 50 kilometers apart. Also, the public transportations have been well developed in Shanghai and you may reach any place by them.



CONFERENCE AT A GLANCE

Tuesday, April 9

Registration 08:00-21:00

Friday, April 10

Registration 07:30-18:00

AM:

Opening Speech, Meisong Tong, Tongji University 07:50-08:00

Session: Keynote Speech 08:00-12:20

Chairs: Meisong Tong, Tongji University; Gaobiao Xiao, Shanghai Jiaotong University **Banquet AB, 5th Floor**

Keynote Speech I, Leung Tsang, University of Michigan 08:00-08:40

Multiple Scattering of Waves with Applications in Microwave Remote Sensing, Metasurfaces and Photonic Crystals

Keynote Speech II, Christophe Fumeaux, The University of Queensland 08:40-09:20

From Mode to Beams: Simulation, Design and Implementation of Multi-Mode Antennas for Beamforming

Keynote Speech III, Andrea Massa, University of Trento 09:20-10:00

Computational Electromagnetics for Smart EM Environments

Tea Break 10:00-10:20

Keynote Speech IV, Francesco Andriulli, Politecnico di Torino 10:20-11:00

Complexity Breaking Complexities in Computational Electromagnetics: Best Practices for Leading through Difficult (Computational) Times

Keynote Speech V, Roberto Graglia, Politecnico di Torino 11:00-11:40

Toward Seamless Refinement: Unifying Hybrid Elements and High-Order Singular Bases for 3D p/h-Conformity

Keynote Speech VI, Levent Sevgi, Istanbul Technical University 11:40-12:20

From Engineering Electromagnetics to Electromagnetic Engineering: Teaching/Training Next Generations

Lunch 12:20-14:00

PM:

Session: Keynote Speech (Online, Zoom Link will be provided soon) 13:40-15:40

Chairs: Meisong Tong, Tongji University; Gaobiao Xiao, Shanghai Jiaotong University **Vienna Hall, 3th Floor**

Keynote Speech VII , <i>Branislav M. Notaros, Colorado State University</i>	13:40-14:20
<i>Higher Order Computational Electromagnetics: From Intellectual Curiosity to Practical Tools and Applications</i>	
Keynote Speech VIII , <i>Weng Cho Chew, Purdue University</i>	14:20-15:00
<i>Making Classical Electromagnetic Solution to be Quantum Compliant (Online)</i>	
Keynote Speech IX, <i>C. J. Reddy, Altair Engineering</i>	15:00-15:40
<i>Pushing the Boundaries of Computational Electromagnetics – Application to Antenna Designs, Placement, Co-site Interference Simulations and Digital Twins (Online)</i>	
Session: DL Workshop Asia Series	14:00-18:25
<i>Chair: Levent Sevgi, Istanbul Technical University</i>	Prague Hall, 3th Floor
DL Workshop Asia Series I, <i>Richard W. Ziolkowski, The University of Arizona</i>	14:00-14:45
<i>Electrically Small Antennas: Advances in Efficiency, Bandwidth, and Directivity</i>	
DL Workshop Asia Series II, <i>Özlem ÖZGÜN, Faculty of Engineering Hacettepe University</i>	14:45-15:30
<i>Advanced Computational Electromagnetics: Beyond the Standard Numerical Modeling Techniques</i>	
Tea Break	15:40-16:10
DL Workshop Asia Series III, <i>Maokun Li, Tsinghua University</i>	16:10-16:55
<i>Electromagnetic Sensing and Imaging (for general audience)</i>	
DL Workshop Asia Series IV, <i>Eng Leong Tan, Nanyang Technological University</i>	16:55-17:40
<i>Explicit, Implicit and Fundamental Schemes for FDTD Methods in Electromagnetics Computation and Education</i>	
DL Workshop Asia Series V: <i>Levent Sevgi, Istanbul Technical University</i>	17:40-18:25
<i>Antennas, Arrays & Calibration: Beam Forming and Beam Steering</i>	
Technical Sessions (Oral & Best Paper Award Competition)	14:00-18:10
Session I: <i>Integrated EM Sensing and Propagation Modeling for Intelligent Vehicular Networks</i>	16:10-17:50
<i>Session Chairs: Xia Wu, Tongji University; Xiuzhu Ye, Beijing Institute of Technology</i>	Vienna, 3rd Floor
Session II: <i>Advances in Multiphysics Modeling and Simulation for Computational Electromagnetics: From Algorithms to Engineering Applications</i>	14:00-15:40
<i>Session Chairs: PING LI, University of Electronic Science and Technology of China; Kai-Kun Niu, Anhui University</i>	Leeds Hall, 3rd Floor
Session III: <i>Advances of EMplus and AI Technology in Interdisciplinary Research</i>	16:10-18:10

<i>Session Chairs: Naixing Feng, Anhui University; Yuxian Zhang, Anhui University</i>	Leeds Hall, 3rd Floor
Session IV: Advances on metasurfaces and applications of antennas	14:00-15:40
<i>Session Chairs: Zhangjie Luo, Southeast University; Yongtao Jia, Xidian University; Sijia Li, Air Force Engineering University</i>	Sydney Hall, 3rd Floor
Session V: AI enhanced forward simulation and inverse problems	16:10-18:10
<i>Session Chairs: Yunyun Hu, Tongji University; Qingtao Sun, Eastern Institute of Technology; Yiqian Mao, Southeast University</i>	Sydney Hall, 3rd Floor
Ulrich L. Rohde Innovative Conference Paper Awards & Best Student Paper Awards Competition	14:00-17:50
<i>Session Co-Chairs: Amir Boag, Tel Aviv University; Vladimir Okhmatovski University of Manitoba</i>	Marseilles Hall, 3rd Floor

Interactive Forum (Poster)	16:00-18:00
Welcome Reception	19:00-21:00

Saturday, April 11

Registration	08:00-18:00
---------------------	--------------------

AM:

Technical Sessions (Oral & Best Student Paper Award Competition)	08:10-12:00
---	--------------------

Session: Best Student Paper Awards Competition	08:10-12:00
--	--------------------

<i>Session Co-Chairs: Amir Boag, Tel Aviv University; Vladimir Okhmatovski University of Manitoba</i>	Vienna, 3rd Floor
---	--------------------------

Session VI: Multiphysics Simulation for RF Systems: From Numerical Methods to Intelligent Computing	08:10-12:00
---	--------------------

<i>Huan Huan Zhang, Xidian University; Guang Shang Cheng, Anhui University; Meng Meng Li, Nanjing University of Science of Technology</i>	Prague Hall, 3rd Floor
---	-------------------------------

Session VII: High-Performance Electromagnetic Computation and Multiphysics Simulation: From Theoretical Methods to Engineering Applications	08:10-12:00
---	--------------------

<i>Juan Chen, School of Information and Communications Engineering, Xi'an Jiaotong University; Zi He, Department of Communication Engineering, Nanjing University of Science and Technology</i>	Prague Hall, 3rd Floor
---	-------------------------------

<u>Session VIII</u> : Electromagnetic scattering and inversion in complex environments	08:10-12:00
--	--------------------

<i>Hongxia YE, Fudan University; Anxue Zhang, Xi'an Jiaotong University; Yumao Wu, Fudan University</i>	Leeds Hall, 3rd Floor
Session IX: Advances in Intelligent Electromagnetic Computation and Optimization Techniques	08:10-12:00
<i>Feng Xu, Fudan University; Shilei Fu, Fudan University</i>	Leeds Hall, 3rd Floor
Session X: Computational methods in analysis and design of metasurfaces	08:10-12:00
<i>Jun Wei Wu, Southeast University; Han Ru Shao, Yangze Delta Institute (Huzhou), University of Electronic Science and Technology of China</i>	Sydney Hall
Session XI: Reconfigurable and Space-Time-Modulated Metasurfaces for Manipulating Electromagnetic Waves	08:10-12:00
<i>Yunjing Zhang, Soochow University; Linghui Kong, Qianyuan Laboratory</i>	Sydney Hall, 3rd Floor
Session XII: Self-Powered Wireless Sensing Technologies for Smart Environments	08:10-12:00
<i>Lei Guo, Dalian University of Technology</i>	Marseilles Hall, 3rd Floor
Tea Break	09:50-10:20
Interactive Forum (Poster)	10:00-12:00
Lunch	12:00-14:00
PM:	
Technical Sessions (Oral)	14:00-18:10
Session XIII: Electromagnetic Computation and Applications	14:00-15:40
<i>Siyuan He, Wuhan University; Qi Huang, National Key Laboratory of Scattering and Radiation; Zhidan Bian, Wuhan University</i>	Vienna Hall, 3rd Floor
Session XIV: Millimeter-wave Antenna Array	16:10-18:10
<i>Zhijiao Chen, Beijing University of Posts and Telecommunications; Yizhu Shen, Southeast University</i>	Vienna Hall, 3rd Floor
Session XV: Scientific Computing and Machine Learning in Geophysical Electromagnetic Prospecting	14:00-15:40
<i>Decheng Hong, Jilin University; Dikun Yang, Southern University of Science and Technology</i>	Prague Hall, 3rd Floor
Session XVI: Advanced method for RF, Microwave, and Millimeter Wave Devices and Circuits	16:10-18:10
<i>Xingang Ren, Anhui University; Meng Kong, Hefei Normal University; Gang Wang, Anhui University</i>	Prague Hall, 3rd Floor
Session XVII: Advanced Electromagnetic Computation, Optimization and Scattering-Functional Design	14:00-18:10
<i>Pengfei Gu, Nanjing University of Science and Technology; Zi He, Nanjing University of Science and Technology</i>	Leeds Hall, 3rd Floor
Session XVIII: Time-Domain Computational Electromagnetics: Theory, Methods, and Applications	14:00-18:10
<i>Bing Wei, Xidian University; Lixia Yang, Anhui University</i>	Sydney Hall, 3rd Floor

Session XIX: Advances in Multi-Mode Antennas for 5G/B5G Communication	14:00-17:50
<i>Lei Guo, Dalian University of Technology; Wen-Wen Yang, Nantong University</i>	Marseilles Hall, 3rd Floor
Tea Break	15:40-16:10
Interactive Forum (Poster)	16:00-18:00
Celebration Banquet and Best Paper Award Ceremony	19:00-21:00

Sunday, April 12

Registration 08:00-18:00

AM:

Technical Sessions (Oral) 08:10-12:00

Session XX: Advanced Techniques in Multiphysics Modeling and Applications 08:10-11:40

Yang Bao, Nanjing University of Posts and Telecommunications; Ting Wan, Nanjing University of Posts and Telecommunications Vienna Hall, 3rd Floor

Session XXI: Integral Equation-based Computational Techniques 08:10-11:00

Amir Boag, Tel Aviv University; Vladimir Okhmatovski, University of Manitoba Prague Hall, 3rd Floor

Session XXII: Advances in Fast Algorithms of Computational Electromagnetics 08:10-11:00

Francesca Vipiana, Politecnico di Torino; Vladimir Okhmatovski, University of Manitoba Prague Hall, 3rd Floor

Session XXIII: Numerical Methods in Electromagnetics and EM measurements 08:10-11:20

Ming-Da Zhu, Xidian University; Yi-Xuan Zhang, Xidian University Leeds Hall, 3rd Floor

Session XXIV: Trustworthy Electromagnetic Computation and Applications 08:10-11:00

Jun Hu, University of Electronic Science and Technology of China Sydney Hall, 3rd Floor

Session XXV: Quantum Technologies Related to Electromagnetics 08:10-12:00

Vladimir Okhmatovski, University of Manitoba; Chao-Fu Wang, Nanjing University of Science and Technology Marseilles Hall, 3rd Floor

Tea Break 09:50-10:20

Interactive Forum (Poster) 10:00-12:00

Lunch 12:00-14:00

PM:

Technical Sessions (Oral) 14:00-18:10

Session XXVI: Advances in Electromagnetic Wave Propagation and Scattering: Methods, Models, and Applications <i>Hao Qin, Sichuan University; Xinyue Zhang, University College Dublin; Xingqi Zhang, University of Alberta</i>	14:00-18:10	Vienna Hall, 3rd Floor
Session XXVII: Advanced Computational Electromagnetics: Methods and Applications <i>Xiaomin Pan, Beijing Institute of Technology; Shunchuan Yang, Beihang University</i>	16:10-18:10	Vienna Hall, 3rd Floor
Session XXVIII: Space-Time Coding Metamaterials and Their Applications <i>Xiaoyi Wang, Tongji University; Guo-Min Yang, Fudan University</i>	14:00-16:10	Prague Hall, 3rd Floor
Session XXIX: RF Acoustic Devices for 5G/6G Applications <i>Guomin Yang, Fudan University; Zonglin Wu, Fudan University; Xin Ou, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences</i>	14:00-16:10	Prague Hall, 3rd Floor
Session XXX: AI-Driven Innovations in Electromagnetic Materials, Devices, and Computational Methods <i>Menglin Zhai, Donghua University; Wu Yang, Southeast University</i>	16:10-18:10	Prague Hall, 3rd Floor
Session XXXI: Analysis of Electromagnetic Properties of Moving Targets <i>Gaobiao Xiao, Shanghai Jiao Tong University; Lei Kuang, East China Normal University</i>	14:00-16:50	Leeds Hall, 3rd Floor
Session XXXII: Advanced Numerical Strategies for Multiscale Electromagnetics and Multiphysics Coupling & Oral Session <i>Wei E. I. Sha, Zhejiang University; Ming-Lin Yang, Beijing Institute of Technology</i>	14:00-16:50	Sydney Hall, 3rd Floor
Tea Break	15:40-16:10	
Interactive Forum (Poster)	16:00-18:00	

CHAIRS' WELCOME

General Chairs



Meisong Tong, Tongji University



Guido Lombardi
Politecnico di Torino



Siyuan He
Wuhan University



Lei Qiu
Tongji University



Qing He
Tongji University



Xiaoyi Wang
Tongji University



Feng Xu
Fudan University

Chairs' Message

Dear Colleagues and Friends:

On behalf of the conference organizing committee, it is our great pleasure to invite you to come to the wonderful modernized city, Shanghai, China, for attending the 2026 IEEE International Conference on Computational Electromagnetics at Crowne Plaza Shanghai Nanjing Road on April 10-12, 2026. We will present and discuss the state-of-the-art research progresses and achievements on computational electromagnetics and its applications, and other achievements within the interest of IEEE Antennas and Propagation Society.

The conference is co-sponsored by the IEEE Antennas and Propagation Society (IEEE AP-S) and Tongji University, Shanghai, China. The conference will feature a diverse range of keynote talks, technical sessions, and interactive posters covering various topics related to antennas and propagation. The conference will also include two (2) Ulrich L. Rohde Innovative Conference Paper Awards on Computational Techniques in Electromagnetics which are open to all attended authors and six (6) Best Student Paper Awards which are only for attended students. Moreover, the conference will involve some well-known exhibitors to show their newest products and technologies related to antennas and propagation.

Shanghai is the largest modernized city in China and it is also the economic and technological center. There are many universities, research institutions, and industrial entities related to antennas and propagation. We hope our conference will provide a wonderful platform linking China to the whole world by sharing the research achievements in the field of antennas and propagation. We also believe that the conference will become an important event in promoting the rapid development on the theory and technology of antennas and propagation for the benefit of humanity.

We look forward to welcoming you to Shanghai in April 2026 and hope your conference experience will become both pleasant and memorable.

General Co-Chairs of ICCEM 2026

Prof. Meisong Tong, Tongji University, Shanghai, China General Chair

Prof. Guido Lombardi, Politecnico di Torino, Torino, Italy

Prof. Siyuan He, Wuhan University, Wuhan, China

Prof. Lei Qiu, Tongji University, Shanghai, China

Prof. Qing He, Tongji University, Shanghai, China

Prof. Xiaoyi Wang, Tongji University, Shanghai, China

Prof. Feng Xu, Fudan University, Shanghai, China

SPONSORS

The organizing committee of ICCEM 2026 would like to highly appreciate the following sponsors for their generous support.

- (1) IEEE Antennas and Propagation Society.
- (2) Tongji University, Shanghai, China.
- (3) Wuhan University, Wuhan, China.
- (4) Fudan University, Shanghai, China.
- (5) Xpeedic, Shanghai, China.



STEERING COMMITTEE

Technical Program Committee Chairs

Gaobiao Xiao	Shanghai Jiaotong University
Amir Boag	Tel Aviv University
Vladimir Okhmatovski	University of Manitoba
Francesca Vipiana	Politecnico di Torino
Li Zhang	Shanghai Polytechnic University
Zhijiao Chen	Beijing University of Posts and Telecommunications

Finance Chair

Jia Cui	Tongji University
----------------	-------------------

Publication Chairs

Yunjing Zhang	Soochow University
----------------------	--------------------

Publicity Chairs

Maokun Li	Tsinghua University
Guomin Yang	Fudan University
Sheng Sun	University of Electronic Science and Technology of China
Lei Guo	Dalian University of Technology

Local Arrangement Chair

Chunxia Yang	Shanghai Normal University
---------------------	----------------------------

Technical and Logistic Support Chairs

Yunyun Hu	Tongji University
------------------	-------------------

Registration Chair

Jia Cui	Tongji University
----------------	-------------------

International Affair Chairs

Yunyun Hu	Tongji University
------------------	-------------------

Website Chairs

Guochun Wan	Tongji University
--------------------	-------------------

Secretary

Shujia Yan	Shanghai University of Engineering Science
-------------------	--

TECHNICAL PROGRAM COMMITTEE

Gaobiao Xiao	Shanghai Jiaotong University
Amir Boag	Tel Aviv University
Vladimir Okhmatovski	University of Manitoba
Francesca Vipiana	Politecnico di Torino
Li Zhang	Shanghai Polytechnic University
Zhijiao Chen	Beijing University of Posts and Telecommunications

KEYNOTE SPEECHES

Friday, April 10, Banquet AB, 5th Floor

Keynote Speech I: Multiple Scattering of Waves with Applications in Microwave Remote Sensing, Metasurfaces and Photonic Crystals, Leung Tsang, University of Michigan, Ann Arbor, MI, USA



Leung Tsang is a Professor of EECS, University of Michigan, Ann Arbor, USA. He is the lead author of four books: Theory of Microwave Remote Sensing and Scattering of Electromagnetic Waves (Volumes 1, 2, and 3). Dr. Tsang was the Editor-in-Chief of the IEEE TGRS from 1996 to 2000 and the President of the IEEE Geoscience and Remote Sensing Society (GRSS) in 2006 – 2007. He has been the Chair of PIERS since 2008. He was the recipient of the Distinguished Achievement Award from GRSS, the Golden Florin Award, the William Pecora Award co-sponsored by USGS and NASA,

the IEEE Electromagnetics Award, and the van de Hulst Light Scattering Award. He is a Fellow of IEEE, Fellow of the Optical Society of America and a member of the U.S. National Academy of Engineering.

ABSTRACT

Multiple scattering of waves is a complex phenomenon that exists in physical system. The Multiple scattering theory (MST) was initially studied by Foldy, Lax, Korringa and Ishimaru. Past theoretical work was based on analytic methods such as vector radiative transfer theory, Feynman diagrams, higher order Kirchhoff theory, AIEM etc. Our group recently advanced MST through efficient three-dimensional full-wave numerical solutions of 3D Maxwell's equations. Surface scattering simulations are based on the multilevel SMCG method. Volume scattering simulations are based on fast solutions of Foldy Lax multiple scattering equations. Accuracies of results have been validated by comparisons with commercial softwares. This paper reviews the recent results in: 1) Surface scattering by soil fractal surfaces and high wind ocean surfaces , with rms heights up to 3 wavelengths , showing backscattering enhancement and large cross polarization , 2) Volume scattering by forests and crop fields with several hundred trees and more than a thousand crops in the domain 3) wave scattering by metasurfaces with thousands of scatterers above a substrate and 4) band diagrams of photonic crystals with complex scatterers.

Keynote Speech II: Making Classical Electromagnetic Solution to be Quantum Compliant, Weng Cho Chew, Purdue University, West Lafayette, IN, USA



Weng Cho Chew received all his degrees from MIT, between 1973-1980. He worked at Schlumberger-Doll Research between 1981-1985 where he was program leader and department manager. Then he joined U of Illinois, 1985-2017. He was Dean of Engineering, Hong Kong U, 2007-2011. In 2017, he joined Purdue U as a Distinguished Professor.

At UIUC, he was Director, Electromagnetics Laboratory, 1995-2007, Founder Professor of Engineering, 2000-2005, YT Lo Chair Professor, 2005-2009, then Distinguished Ann and George Fisher Professor, 2013-2017. He has published over 1,000 journal and conference papers, books, and lecture notes. He is an ISI highly

cited author.

Moreover, he is a fellow of IEEE, OSA, IOP, EM Academy, HKIE, and winner of IEEE Graduate Teaching Award, Electromagnetics Award, CT Tai Distinguished Educator Award, best paper awards, IBM, ACES CEM awards, and SPWLA Pioneer Award. He is a member of US National Academy of Engineering, and is the Editor-in-Chief of PIER, and has both industry and academic experience. He is the President of IEEE Antennas and Propagation Society for 2018. His research interests are in wave physics and mathematics of inhomogeneous media, and fast algorithms for scattering and radiation problems. He originated several fast algorithms for electromagnetics scattering and multiple-scattering inverse problems. His research group solved dense matrices for scattering problems with tens of millions of unknowns first time ever. His recent interests are in multi-physics phenomena including quantum effects.

ABSTRACT

Classical electromagnetics has been with us for over 150 years. We can view 1865 as the harbinger of classical electromagnetics during when Maxwell added the displacement current to complete the four Maxwell's equations. It was in 1927 that Dirac introduced the quantum version of electromagnetics which he also called quantum electrodynamics (QED). We have called this quantum electromagnetics in line with the quantum optics community where we are more interested in developing quantum technologies, and the wavelengths can be many atomic spacing large.

Classical electromagnetics followed by computational electromagnetics have been with us for decades. With it, we have sleuth of modern technologies that have transformed our modern world. The most obvious is the emergence of wireless communications and the development of microchips and nanotechnologies.

While quantum electromagnetics has not been with us for as long, its potential for impact is tremendous. Thus, it presages ways to convert a classical solution into one that is quantum compliant. With this pathway, we can exploit the wealth of knowledge in classical electromagnetics, especially computational electromagnetics, to model quantum systems.

In this talk, we will discuss such possibilities, and how classical solutions can be used to model quantum weirdness.

Keynote Speech III: Higher Order Computational Electromagnetics: From Intellectual Curiosity to Practical Tools and Applications, Branislav M. Notaros, Colorado State University, Fort Collins, Colorado, USA



Branislav M. Notaros is a Professor of Electrical and Computer Engineering, Director of Electromagnetics Laboratory, and University Distinguished Teaching Scholar at Colorado State University. His research contributions are in computational and applied electromagnetics, antennas, and propagation. He was the recipient of the 1999 IEE Marconi Premium, 2005 IEEE MTT-S Microwave Prize, 2022 IEEE Antennas and Propagation Edward E. Altshuler Prize Paper Award, 2019 ACES Technical Achievement Award, 2014 Carnegie Foundation Colorado Professor of the Year Award, 2015 ASEE ECE Distinguished Educator Award, 2015 IEEE

Undergraduate Teaching Award, and many other research and teaching awards. He is Fellow of IEEE “for contributions to higher order methods in computational electromagnetics” and Applied Computational Electromagnetics Society (ACES). Prof. Notaros serves as Immediate Past President of the IEEE Antennas and Propagation Society (AP-S) and ACES, Immediate Past Chair of the USNC-URSI Commission B, and Track Editor of the IEEE Transactions on Antennas and Propagation. He served as General Chair of the IEEE APS/URSI 2022 Denver Conference and several other conferences.

ABSTRACT

This keynote talk presents an overview of higher order computational electromagnetics (CEM), which historically was mainly an intellectual curiosity, and discusses advancements that have made it a practical tool for antennas and propagation (AP) developments and applications. Higher order CEM uses higher order current/field basis functions defined on large (e.g., on the order of a wavelength in each dimension) curvilinear geometrical elements, which greatly reduces the number of unknowns for a given problem and enhances the accuracy and efficiency of the analysis. Although it has been around for almost 60 years, there has been a gap between the academic and scientific interest in higher order CEM techniques, which evidently show great numerical potential, and their actual use in electromagnetics research and engineering applications. One way to contribute to closing this gap is to make higher order CEM methodologies, elements, and approximation functions more comprehensible and approachable, and more easily and confidently used by both CEM developers and practitioners, with as much automation and certainty as possible. To this end, this talk discusses a synergistic combination of error estimation and control, meshing, adaptive refinement, hp-methods, and uncertainty quantification for higher order CEM. We go from theoretical backgrounds and numerical implementations to practical applications of higher order CEM in AP designs and systems.

Keynote Speech IV: From Mode to Beams: Simulation, Design and Implementation of Multi-Mode Antennas for Beamforming, Christophe Fumeaux, The University of Queensland, Brisbane, Australia



Christophe Fumeaux received his Ph.D. degree from ETH Zurich, Switzerland, in 1997. From 1998 to 2008, he held various positions at the University of Central Florida, the Swiss Federal Office of Metrology, and ETH Zurich. From 2008 to 2023, he was a Professor with The University of Adelaide. In 2023, he joined the School of Electrical Engineering and Computer Science at The University of Queensland, as Chair Professor in Optical and Microwave Engineering. His main research interests concern applied electromagnetics, antenna engineering, and the application of RF design principles across the electromagnetic spectrum.

Prof. Fumeaux was the recipient of the ETH Medal for his doctoral dissertation. He was the recipient of the 2018 Edward E. Altshuler Prize, the 2014 IEEE Sensors Journal and the 2004 ACES Journal best paper awards. He was the recipient of the University of Adelaide 2018 Stephen Cole the Elder Award for Excellence in PhD Supervision. From 2017 to early 2023, he served as the Editor-in-Chief for the IEEE Antennas and Wireless Propagation Letters. He was 2025 President of the IEEE Antennas and Propagation Society and he is currently serving as IEEE AP-S Vice-President of Publications. He is a Fellow of the IEEE.

ABSTRACT

The growing demands of modern wireless communication technologies impose new challenges on antenna design and simulation. Antenna systems of increasing complexity, capable of delivering multiple dynamically accessible functionalities, are now essential to enhance capacity and support diverse roles in contemporary communications and sensing platforms.

This presentation focuses on the concept of multiport, multimode antennas, in which several independent radiating modes operating within the same frequency band are generated in a shared physical volume. These uncorrelated modes, tightly packed within a compact form factor, can significantly improve the agility and capacity of communications links through pattern diversity or Multiple Input Multiple Output (MIMO) operation.

Within this framework, the talk will outline techniques for efficiently realizing multiple independent modes in a limited volume. It will then illustrate how computational tools and global optimization algorithms can be leveraged to enable advanced beamforming by exploiting a large number of co located radiating modes. This approach supports full hemisphere beam steering and nulling with high consistency and across any polarization. The presented concept offers promising new opportunities for future distributed sensing and communication systems.

Keynote Speech V: Pushing the Boundaries of Computational Electromagnetics – Application to Antenna Designs, Placement, Co-site Interference Simulations and Digital Twins, C. J. Reddy, Altair Engineering, Troy, MI, USA



C.J. Reddy is Siemens Fellow at Siemens Digital Industries Software. He served as Vice President, Business Development-Electromagnetics for Americas at Altair from 2014 to 2025 and transitioned to Siemens, with the acquisition of Altair by Siemens. Dr. Reddy was awarded the Natural Sciences and Engineering Research Council (NSERC) of Canada Visiting Fellowship to work at Communications Research Center in Ottawa during 1991-1993 and was awarded the US National Research Council (NRC) Resident Research Associateship in 1993 to work at NASA Langley Research Center in Hampton, Virginia. He also worked as Research Professor at Hampton University from 1995 to 2000. Dr. Reddy was the President of Applied EM, Inc (2000-2017) where he led several Phase I and Phase II SBIR projects for the DoD and NASA. He was also the President of EM Software & Systems (USA) Inc (2002-2014) and led the marketing of the EM Simulation tool, Feko in North America. EM Software & Systems (USA) Inc was acquired by Altair in 2014. Dr. Reddy is a Fellow of IEEE, Fellow of ACES (Applied Computational Electromagnetics Society) and a Fellow of AMTA (Antenna Measurement Techniques Association). Dr. Reddy is a co-author of the book, "Antenna Analysis and Design Using FEKO Electromagnetic Simulation Software," published in June 2014 by SciTech Publishing (now part of IET). Dr. Reddy served as an Associate Editor for IEEE Open Journal of Antennas and Propagation and IEEE Transactions on Antennas and Propagation. He served as the Chair of IEEE Antennas and Propagation Society (APS) Young Professionals Committee during 2021-2024 and served on the AP-S AdCom during 2023-2024. Dr. Reddy is appointed to IEEE Fellows Committee by IEEE Board of Directors for the terms 2020-2021 and 2022-2023. Currently, Dr. Reddy is serving as the 2026 IEEE AP-S President. Dr. Reddy is inducted into IEEE Heritage Circle by the IEEE Foundation for establishing the "IEEE AP-S CJ Reddy Travel Grant for Graduate Students."

ABSTRACT

Simulation-driven design changed product development forever, enabling engineers to reduce design, iterations, and prototype testing. Increasing scientific computing power expanded the opportunity to apply analysis, making large design studies possible within the timing constraints of a program. This talk will focus on advanced CEM simulation tools that incorporate numerical methods, such as Method of Moments (MoM), Multilevel Fast Multipole Method (MLFMM), Finite Element Method (FEM), Finite Difference Time Domain (FDTD), Physical Optics (PO), Ray Launching Geometrical Optics (RL-GO), and Uniform Theory of Diffraction (UTD). As the complexity of connected devices increases each day, designers are taking advantage of AI/ML to generate trained models for their physical antenna designs and perform fast and intelligent optimization on these trained models. Using the trained models, different optimization algorithms and goals can be run quickly, in seconds, that can be utilized for comparison studies, stochastic analysis for tolerance studies etc. Use of cloud computing combined with AI/ML, many design iterations can be performed in a short period and reducing the time to market. This talk will also focus on future trends in cloud computing for physics-based simulations and the emerging topics such as Digital Twins.

Keynote Speech VI: Computational Electromagnetics for Smart EM Environments,
Andrea Massa, University of Trento, Trento, Italy



Andrea Massa (IEEE Fellow, IET Fellow, Electromagnetic Academy Fellow) has been a Full Professor of Electromagnetic Fields @ University of Trento since 2005.

At present, Prof. Massa is the director of the network of 19 federated laboratories "ELEDIA Research Center" located in Brunei, China, Czech, Ethiopia, France, Greece, Italy, Japan, Peru, USA, Tunisia with more than 150 researchers. Moreover, he is holder of a Chang-Jiang Chair Professorship @ UESTC (Chengdu - China), Visiting Research Professor @ University of Illinois at Chicago (Chicago - USA), Distinguished Visiting Professor @ Tsinghua (Beijing - China), and Visiting Professor as well as IAS Distinguished Scholar @ Tel Aviv University (Tel Aviv - Israel). He has been holder of a Senior DIGITEO Chair at L2S-CentraleSupélec and CEA LIST in Saclay (France), UC3M-Santander Chair of Excellence @ Universidad Carlos III de Madrid (Spain), , and Professor @ CentraleSupélec (Paris - France), Adjunct Professor at Penn State University (USA), Guest Professor @ UESTC (China), and Visiting Professor at the Missouri University of Science and Technology (USA), the Nagasaki University (Japan), the University of Paris Sud (France), the Kumamoto University (Japan), and the National University of Singapore (Singapore). He has been appointed IEEE AP-S Distinguished Lecturer (2016-2018) and served as Associate Editor of the "IEEE Transaction on Antennas and Propagation" (2011-2014).

His research activities are mainly concerned with inverse problems, antenna analysis/synthesis, radar systems and signal processing, cross-layer optimization and planning of wireless/RF systems, system-by-design and material-by-design (metamaterials and reconfigurable-materials), and theory/applications of optimization techniques to engineering problems (coms, medicine, and biology).

Prof. Massa published more than 1000 scientific publications among which more than 400 on international journals (>19.500 citations - h-index = 71 [Scopus]; > 15.000 citations - h-index = 65 [ISI-WoS]; > 31.000 citations - h-index = 97 [Google Scholar]) and more than 600 in international conferences where he presented more than 255 invited contributions (> 70 invited keynote speaker) (www.eledia.org/publications). He has organized more than 90 scientific sessions in international conferences and has participated to several technological projects in the national and international framework with both national agencies and companies (22 international prj, > 5 M €; 21 national prj, > 5 M €; 10 local prj, > 2 M €; 67 industrial prj, > 10 M €; 6 university prj, > 300 K €).

ABSTRACT

The evolution of wireless communication systems towards 6G and beyond is driving a fundamental paradigm shift: the transition from traditional, passive wireless channels to Smart Electromagnetic Environments (SEME). Unlike conventional networks that treat the physical propagation channel as a static and uncontrollable entity, a SEME actively molds and

controls electromagnetic (EM) wave propagation to drastically enhance network performance. At the core of this technological revolution is Computational Electromagnetics (CEM). However, transforming the SEME concept into a tangible reality introduces unprecedented computational and design complexities that cannot be tackled by traditional engineering approaches alone.

More specifically, the successful realization of a Smart EM Environment fundamentally relies on the synergistic integration of advanced EM predictors and robust optimizers. A dual-scale computational framework is strictly required, operating simultaneously at the microscopic level (device design) and the macroscopic level (network planning and deployment).

At the device level, the combination of accurate CEM predictors (ranging from rigorous full-wave solvers to fast AI-driven surrogate models) and powerful optimization algorithms is essential for the synthesis of key enabling technologies. Modern networks rely on highly complex, multi-scale devices, including Smart Programmable Electromagnetic Surfaces (SP-EMS), Reconfigurable Intelligent Surfaces (RIS), Smart Repeaters, Integrated Access and Backhaul (IAB) nodes, and next-generation Base Transceiver Stations (BTS). Optimizers are deployed to systematically explore vast architectural design spaces, tuning unit cells, meta-atoms, and array configurations. Concurrently, predictors evaluate the scattering and radiation properties in real-time, ensuring that the designed devices can dynamically manipulate EM waves with high fidelity, high energy efficiency, and low latency.

Beyond the synthesis of individual hardware components, the predictor-optimizer synergy is critical during the macroscopic network planning and deployment phase. Fast and accurate EM predictors—such as advanced ray-tracing models integrated with machine learning—are necessary to evaluate the propagation characteristics of complex, electrically large urban or indoor environments. When coupled with system-level optimizers, these predictive tools enable the strategic placement, orientation, and real-time configuration of RIS, IAB nodes, and BTS across the territory.

The ultimate goal of combining CEM predictors and optimizers is to solve highly complex, multi-objective engineering problems. By accurately modeling the physical environment and intelligently deploying customized network nodes, it becomes possible to strictly minimize energy consumption and deployment costs (CAPEX and OPEX). Simultaneously, this methodology allows operators to maximize overall EM coverage, signal-to-interference-plus-noise ratio (SINR), and the Quality of Service (QoS) perceived by the end-users. Ultimately, an advanced computational framework driven by the continuous loop of accurate prediction and smart optimization is the absolute cornerstone for designing sustainable, cost-effective, and high-performance Smart EM Environments.

Keynote Speech VII: Complexity Breaking Complexities in Computational Electromagnetics: Best Practices for Leading through Difficult (Computational) Times, Francesco Andriulli, Politecnico di Torino, Turin, Italy



Francesco P. Andriulli received the Laurea in electrical engineering from the Politecnico di Torino, Italy, in 2004, the MSc in electrical engineering and computer science from the University of Illinois at Chicago in 2004, and the PhD in electrical engineering from the University of Michigan at Ann Arbor in 2008. From 2008 to 2010 he was a Research Associate with the Politecnico di Torino. From 2010 to 2017 he was an Associate Professor (2010-2014) and then Full Professor with the École Nationale Supérieure Mines-Télécom Atlantique (IMT Atlantique), Brest, France. Since 2017 he has been a Full Professor with the Politecnico di Torino, Turin, Italy. His

research interests are in computational electromagnetics including frequency- and time-domain integral equation solvers, well-conditioned formulations, fast solvers, low-frequency electromagnetic analyses, and modeling techniques for antennas, wireless components, microwave circuits, and biomedical applications with a special focus on brain imaging.

Prof. Andriulli received several best paper awards at conferences and symposia (URSI NA 2007, IEEE AP-S 2008, ICEAA IEEE-APWC 2015) also in co-authorship with his students and collaborators (EMTS 2025, ICEAA IEEE-APWC 2021, EMTS 2016, URSI-DE Meeting 2014, ICEAA 2009) with whom received also a second prize conference paper (URSI GASS 2014), a third prize conference paper (IEEE – APS 2018), seven honorable mention conference papers (ICEAA 2011, URSI/IEEE – APS 2013, 4 in URSI/IEEE – APS 2022, URSI/IEEE – APS 2023) and other three finalist conference papers (URSI/IEEE-APS 2012, URSI/IEEE-APS 2007, URSI/IEEE-APS 2006, URSI/IEEE – APS 2022)). Moreover, he received the 2014 IEEE AP-S Donald G. Dudley Jr. Undergraduate Teaching Award, the triennium 2014-2016 URSI Issac Koga Gold Medal, and the 2015 L. B. Felsen Award for Excellence in Electrodynamics.

Prof. Andriulli is a Fellow of the IEEE and of the International Union of Radio Science (URSI), and a member of Eta Kappa Nu, Tau Beta Pi, and Phi Kappa Phi. He serves as the 2026 President-Elect of the IEEE Antennas and Propagation Society and served as IEEE AP-S Vice-President of Publications 2025, as Editor-in-Chief of the IEEE Antennas and Propagation Magazine, Track Editor for the IEEE Transactions on Antennas and Propagation and as an Associate Editor for the IEEE Antennas and Wireless Propagation Letters, IEEE Access, URSI Radio Science Letters, and IET-MAP.

ABSTRACT

Computational Electromagnetics (CEM) is a scientific discipline positioned at the intersection of electrical engineering, high-performance computing, and applied mathematics. It is primarily concerned with the modeling and simulation of complex electromagnetic phenomena that arise in advanced technological and scientific contexts. Historically, CEM has provided the predictive framework underlying a wide spectrum of applications in electrical and electronic engineering, optics, wireless communications, geophysical exploration, and biomedical systems.

In recent years, the scope of CEM has broadened significantly, engaging with an expanding range of interdisciplinary fields, including information retrieval, computational neuroscience, machine learning, and brain-computer interfaces. A pervasive trend across these domains is

the substantial growth in the dimensionality and scale of the problems to be addressed, driven by system miniaturization and increased component density. This evolution has led to escalating levels of computational complexity and, consequently, increased cost and effort associated with electromagnetic modeling, design, and simulation.

This talk will provide a comprehensive overview of the major challenges both longstanding and emerging, facing the field of CEM, with examples spanning from canonical problems to those of "Holy Grail"-like complexity. Emphasis will be placed on recent research efforts aimed at achieving paradigm shifts in simulation methodologies, with the objective of overcoming the computational bottlenecks inherent in conventional approaches and enabling significant performance gains. Applications discussed will include brain imaging and modeling, electromagnetic dosimetry, epilepsy diagnosis, and the development of brain-computer interfaces.

Keynote Speech VIII: Toward Seamless Refinement: Unifying Hybrid Elements and High-Order Singular Bases for 3D p/h-Conformity, Roberto Graglia, Politecnico di Torino, Torino, Italy



Roberto D. Graglia received the Laurea degree (summa cum laude) in Electronic Engineering from the Politecnico di Torino, Italy, in 1979, and the Ph.D. degree in Electrical Engineering and Computer Science from the University of Illinois Chicago (UIC), USA, in 1983. From 1980 to 1981, he was a Research Engineer at CSELT (now Telecom Italia Lab S.p.A.) in Torino, and from 1981 to 1983 he served as a Teaching and Research Assistant at UIC. He was a Lecturer at the Politecnico di Torino from 1984 to 1991 and a Researcher with the Italian National Research Council (CNR) from 1985

to 1992, where he led several international projects. He was also an Associate Visiting Professor at UIC in 1991 and 1993.

In 1992, Prof. Graglia joined the Department of Electronics and Telecommunications at the Politecnico di Torino as an Associate Professor and has been a Full Professor of Electrical Engineering since 1999.

Prof. Graglia has authored more than 220 publications in international journals and conference proceedings. He has been a member of the Editorial Board of *Electromagnetics* (Taylor & Francis) since 1997 and was one of three Guest Editors of the first ever Special Issue of the *IEEE Transactions on Antennas and Propagation* dedicated to *Advanced Numerical Techniques in Electromagnetics* (March 1997). He has served as Associate Editor for several leading IEEE journals, including the *IEEE Transactions on Antennas and Propagation*, *IEEE Transactions on Electromagnetic Compatibility*, and *IEEE Antennas and Wireless Propagation Letters*. He has also served the International Union of Radio Science (URSI) for its triennial International Symposia on Electromagnetic Theory.

Since 1999, Prof. Graglia has been the General Chairperson of the International Conference on Electromagnetics in Advanced Applications (ICEAA), and since 2011 he has also served as General Chairperson of the IEEE APS Topical Conference on Antennas and Propagation in

Wireless Communications (IEEE APWC). He was the 2015 President of the IEEE Antennas and Propagation Society (AP S), completing nine years on the IEEE AP S Administrative Committee. During his presidency, he initiated the IEEE Journal on Multiscale and Multiphysics Computational Techniques.

Prof. Graglia has been an IEEE AP S Distinguished Lecturer since 2009 and a Life Fellow of the IEEE since 1998. He is the recipient of the 2021 Harrington Mittra Award in Computational Electromagnetics and the 2025 IEEE AP S Distinguished Achievement Award. He is also a resident elected member of the Accademia delle Scienze di Torino, founded by Giuseppe Luigi Lagrange in 1783.

ABSTRACT

Multiscale and multiphysics numerical solvers for the analysis of complex three-dimensional (3D) structures must be able to handle hybrid meshes consisting of tetrahedra, hexahedra, prisms, and quadrilateral-based pyramids, even in the presence of curved geometries. Such meshes are widely adopted because they exploit the specific advantages of each element type. In structured or mildly curved regions, hexahedra and prisms typically offer higher accuracy and better computational efficiency, whereas tetrahedra naturally accommodate highly complex geometries. Prisms are also particularly effective in boundary-layer discretizations, where anisotropic refinement is required.

Pyramids, on the other hand, play a crucial role as transition elements: they are the only elements capable of consistently bridging mesh regions with triangular faces to those with quadrilateral faces. This transition cannot be achieved using prisms alone, which map triangles to triangles and quadrilaterals to quadrilaterals, keeping quadrilateral faces aligned with the extrusion direction and triangular faces transverse to it.

Over the past thirty years, together with several collaborators, we have developed interpolatory vector bases and high-order hierarchical vector bases for all major two- and three-dimensional element types, including—more recently—complete high-order bases for pyramidal elements. The inclusion of pyramidal bases has enabled unrestricted and conforming h-refinement across hybrid meshes.

For surface elements, we have also introduced singular additive bases specifically designed to capture field singularities at edges and corners with high fidelity.

This presentation will review the main results obtained so far and outline several promising directions for future developments in applied electromagnetics.

Keynote Speech IX: From Engineering Electromagnetics to Electromagnetic Engineering: Teaching/Training Next Generations, Levent Sevgi, Istanbul Technical University, Türkiye



Prof. Dr. Levent Sevgi is a Fellow of the IEEE (since 2009) and the recipient of IEEE APS Chen-To Tai Distinguished Educator Award (2021). He was with Istanbul Technical University (1991 – 1998), TUBITAK-MRC, Information Technologies Research Institute (1999 – 2000), Weber Research Institute / NY Polytechnic University (1988 – 1990), Scientific Research Group of Raytheon Systems Canada (1998 – 1999), Center for Defense Studies, ITUV-SAM (1993 – 1998 and 2000 – 2002) and with University of Massachusetts, Lowell (UML) MA/USA as a full-time faculty (2012 – 2013), DOGUS University (2001-2014), Istanbul OKAN (2014 - 2021), and ATLAS (2022-2024) Universities.

He served four years (2020-2023) as an IEEE AP-S Distinguished Lecturer. Since Jan 2024 he has been the chair of the IEEE AP-S DL Committee. He served one-term in the IEEE AP-S AdCom (2013-2015) and one-term and as a member of IEEE AP-S Field Award Committee (2018-2019). He had been the writer/editor of the “Testing ourselves” Column in the IEEE AP Magazine (2007-2021), a member of the IEEE AP-S Education Committee (2006-2021), He also served in several editorial boards (EB) of other prestigious journals / magazines, such as the IEEE AP Magazine (2007-2021), Wiley’s International Journal of RFMiCAE (2002-2018), and the IEEE Access (2017-2019 and 2020 - 2022). He is the founding chair of the EMC TURKIYE International Conferences (www.emcturkiye.org).

He has been involved with complex electromagnetic problems for nearly four decades. His research study has focused on electromagnetic radiation, propagation, scattering and diffraction; RCS prediction and reduction; EMC/EMI modelling, simulation, tests and measurements; multi-sensor integrated wide area surveillance systems; surface wave HF radars; analytical and numerical methods in electromagnetics; FDTD, TLM, FEM, SSPE, and MoM techniques and their applications; bio-electromagnetics. He is also interested in novel approaches in engineering education, teaching electromagnetics via virtual tools. He also teaches popular science lectures such as Science, Technology and Society.

He has published many books / book chapters in English and Turkish, over 180 journal/magazine papers / tutorials and attended more than 100 international conferences / symposiums. His three books *Complex Electromagnetic Problems and Numerical Simulation Approaches*, *Electromagnetic Modeling and Simulation* and *Radiowave Propagation and Parabolic Equation Modeling* were published by the IEEE Press - WILEY in 2003, 2014, and 2017, respectively. His fourth and fifth books, *A Practical Guide to EMC Engineering* (Sep 2017) and *Diffraction Modeling and Simulation with MATLAB* (Feb 2021) were published by ARTECH HOUSE.

His h-index is 39, with a record of 5300+ citations (source: Google Scholar, Nov 2025).

ABSTRACT

The role of Electromagnetic (EM) fields in our lives has been increasing. Communication, remote sensing, integrated command/ control/surveillance systems, intelligent transportation systems, medicine, environment, education, marketing, and defense are only a few areas where EM fields have critical importance. We have witnessed the transformation

from Engineering Electromagnetics to Electromagnetic Engineering for the last few decades after being surrounded by EM waves everywhere. Among many others, EM engineering deals with broad range of problems from antenna design to EM scattering, indoor – outdoor radiowave propagation to wireless communication, radar systems to integrated surveillance, subsurface imaging to novel materials, EM compatibility to nano-systems, electroacoustic devices to electro-optical systems, etc. The range of the devices we use in our daily life has extended from DC up to Terahertz frequencies. We have had both large-scale (kilometers-wide) and small-scale (nanometers) EM systems. A large portion of these systems are broadband and digital and must operate in close proximity that results in severe EM interference problems. Engineers must take EM issues into account from the earliest possible design stages. This necessitates establishing an intelligent balance between strong mathematical background (theory), engineering experience (practice), and modeling and numerical computations (simulation).

This Distinguished/keynote lecture aims at a broad-brush look at current complex EM problems as well as certain teaching / training challenges that confront wave-oriented EM engineering in the 21st century, in a complex computer and technology-driven world with rapidly shifting societal and technical priorities.

SPECIAL SESSIONS

Session I: Integrated EM Sensing and Propagation Modeling for Intelligent Vehicular Networks

*Xia Wu, Tongji University; Xiuzhu Ye, Beijing Institute of Technology
Friday, April 10, 16:10-17:50, Vienna Hall, 3rd Floor*

Session II: Advances in Multiphysics Modeling and Simulation for Computational Electromagnetics: From Algorithms to Engineering Applications

*PING LI, University of Electronic Science and Technology of China; Kai-Kun Niu, Anhui University
Friday, April 10, 14:00-15:40, Leeds Hall, 3rd Floor*

Session III: Advances of EMplus and AI Technology in Interdisciplinary Research

*Naixing Feng, Anhui University; Yuxian Zhang, Anhui University
Friday, April 10, 16:10-18:10, Leeds Hall, 3rd Floor*

Session IV: Advances on metasurfaces and applications of antennas

*Zhangjie Luo, Southeast University; Yongtao Jia, Xidian University; Sijia Li, Air Force Engineering University
Friday, April 10, 14:00-15:40, Sydney Hall, 3rd Floor*

Session V: AI enhanced forward simulation and inverse problems

*Yunyun Hu, Tongji University; Qingtao Sun, Eastern Institute of Technology; Yiqian Mao, Southeast University
Friday, April 10, 16:10-18:10, Sydney Hall, 3rd Floor*

Session VI: Multiphysics Simulation for RF Systems: From Numerical Methods to Intelligent Computing

*Huan Huan Zhang, Xidian University; Guang Shang Cheng, Anhui University; Meng Meng Li, Nanjing University of Science of Technology
Saturday, April 11, 08:10-12:00, Prague Hall, 3rd Floor*

Session VII: High-Performance Electromagnetic Computation and Multiphysics Simulation: From Theoretical Methods to Engineering Applications

*Juan Chen, School of Information and Communications Engineering, Xi'an Jiaotong University; Zi He, Department of Communication Engineering, Nanjing University of Science and Technology
Saturday, April 11, 08:10-12:00, Prague Hall, 3rd Floor*

Session VIII: Electromagnetic scattering and inversion in complex environments

*Hongxia YE, Fudan University; Anxue Zhang, Xi'an Jiaotong University; Yumao Wu, Fudan University
Saturday, April 11, 08:10-12:00, Leeds Hall, 3rd Floor*

Session IX: Advances in Intelligent Electromagnetic Computation and Optimization Techniques

*Feng Xu, Fudan University; Shilei Fu, Fudan University
Saturday, April 11, 08:10-12:00, Leeds Hall, 3rd Floor*

Session X: Computational methods in analysis and design of metasurfaces

*Jun Wei Wu, Southeast University; Han Ru Shao, Yangze Delta Institute (Huzhou),
University of Electronic Science and Technology of China
Saturday, April 11, 08:10-12:00, Sydney Hall, 3rd Floor*

Session XI: Reconfigurable and Space-Time-Modulated Metasurfaces for Manipulating Electromagnetic Waves

*Yunjing Zhang, Soochow University; Linghui Kong, Qianyuan Laboratory
Saturday, April 11, 08:10-12:00, Sydney Hall, 3rd Floor*

Session XII: Self-Powered Wireless Sensing Technologies for Smart Environments

*Lei Guo, Dalian University of Technology
Saturday, April 11, 08:10-12:00, Marseilles Hall, 3rd Floor*

Session XIII: Electromagnetic Computation and Applications

*Siyuan He, Wuhan University; Qi Huang, National Key Laboratory of Scattering and
Radiation; Zhidan Bian, Wuhan University
Saturday, April 11, 14:00-15:40, Vienna Hall, 3rd Floor*

Session XIV: Millimeter-wave Antenna Array

*Zhijiao Chen, Beijing University of Posts and Telecommunications; Yizhu Shen,
Southeast University
Saturday, April 11, 16:10-18:10, Vienna Hall, 3rd Floor*

Session XV: Scientific Computing and Machine Learning in Geophysical Electromagnetic Prospecting

*Decheng Hong, Jilin University; Dikun Yang, Southern University of Science and
Technology
Saturday, April 11, 14:00-15:40, Prague Hall, 3rd Floor*

Session XVI: Advanced method for RF, Microwave, and Millimeter Wave Devices and Circuits

*Xingang Ren, Anhui University; Meng Kong, Hefei Normal University; Gang Wang,
Anhui University
Saturday, April 11, 16:10-18:10, Prague Hall, 3rd Floor*

Session XVII: Advanced Electromagnetic Computation, Optimization and Scattering-Functional Design

*Pengfei Gu, Nanjing University of Science and Technology; Zi He, Nanjing University of
Science and Technology
Saturday, April 11, 14:00-18:10, Leeds Hall, 3rd Floor*

Session XVIII: Time-Domain Computational Electromagnetics: Theory, Methods, and Applications

*Bing Wei, Xidian University; Lixia Yang, Anhui University
Saturday, April 11, 14:00-18:10, Sydney Hall, 3rd Floor*

Session XIX: Advances in Multi-Mode Antennas for 5G/B5G Communication

*Lei Guo, Dalian University of Technology; Wen-Wen Yang, Nantong University
Saturday, April 11, 14:00-17:50, Marseilles Hall, 3rd Floor*

Session XX: Advanced Techniques in Multiphysics Modeling and Applications

*Yang Bao, Nanjing University of Posts and Telecommunications; Ting Wan, Nanjing University of Posts and Telecommunications
Sunday, April 12, 08:10-11:40, Vienna Hall, 3rd Floor*

Session XXI: Integral Equation-based Computational Techniques

*Amir Boag, Tel Aviv University; Vladimir Okhmatovski, University of Manitoba
Sunday, April 12, 08:10-11:00, Prague Hall, 3rd Floor*

Session XXII: Advances in Fast Algorithms of Computational Electromagnetics

*Francesca Vipiana, Politecnico di Torino; Vladimir Okhmatovski, University of Manitoba
Sunday, April 12, 08:10-11:00, Prague Hall, 3rd Floor*

Session XXIII: Numerical Methods in Electromagnetics and EM measurements

*Ming-Da Zhu, Xidian University; Yi-Xuan Zhang, Xidian University
Sunday, April 12, 08:10-11:20, Leeds Hall, 3rd Floor*

Session XXIV: Trustworthy Electromagnetic Computation and Applications

*Jun Hu, University of Electronic Science and Technology of China
Sunday, April 12, 08:10-11:00, Sydney Hall, 3rd Floor*

Session XXV: Quantum Technologies Related to Electromagnetics

*Vladimir Okhmatovski, University of Manitoba; Chao-Fu Wang, Nanjing University of Science and Technology
Sunday, April 12, 08:10-12:00, Marseilles Hall, 3rd Floor*

Session XXVI: Advances in Electromagnetic Wave Propagation and Scattering: Methods, Models, and Applications

*Hao Qin, Sichuan University; Xinyue Zhang, University College Dublin; Xingqi Zhang, University of Alberta
Sunday, April 12, 14:00-18:10, Vienna Hall, 3rd Floor*

Session XXVII: Advanced Computational Electromagnetics: Methods and Applications

*Xiaomin Pan, Beijing Institute of Technology; Shunchuan Yang, Beihang University
Sunday, April 12, 16:10-18:10, Vienna Hall, 3rd Floor*

Session XXVIII: Space-Time Coding Metamaterials and Their Applications

*Xiaoyi Wang, Tongji University; Guo-Min Yang, Fudan University
Sunday, April 12, 14:00-16:10, Prague Hall, 3rd Floor*

Session XXIX: RF Acoustic Devices for 5G/6G Applications

*Guomin Yang, Fudan University; Zonglin Wu, Fudan University; Xin Ou, Shanghai
Institute of Microsystem and Information Technology, Chinese Academy of Sciences
Sunday, April 12, 14:00-16:10, Prague Hall, 3rd Floor*

Session XXX: AI-Driven Innovations in Electromagnetic Materials, Devices, and Computational Methods

*Menglin Zhai, Donghua University; Wu Yang, Southeast University
Sunday, April 12, 16:10-18:10, Prague Hall, 3rd Floor*

Session XXXI: Analysis of Electromagnetic Properties of Moving Targets

*Gaobiao Xiao, Shanghai Jiao Tong University; Lei Kuang, East China Normal University
Sunday, April 12, 14:00-16:50, Leeds Hall, 3rd Floor*

Session XXXII: Advanced Numerical Strategies for Multiscale Electromagnetics and Multiphysics Coupling & Oral Session

*Wei E. I. Sha, Zhejiang University; Ming-Lin Yang, Beijing Institute of Technology
Sunday, April 12, 14:00-16:50, Sydney Hall, 3rd Floor*

ORAL PRESENTATIONS

Friday, April 10, 07:30-12:40

Friday, April 10, 14:00-18:25

Saturday, April 11, 08:10-12:00

Saturday, April 11, 14:00-18:10

Sunday, April 12, 08:10-12:00

Sunday, April 12, 14:00-18:10

Friday, April 10

Friday, April 10	07:50-12:20
FR-OP.1A	Banquet Room AB, 5th Floor
<hr/>	
Opening Speech	07:50-08:00
<i>Meisong Tong, Tongji University, China</i>	
 Session: Keynote Speeches	
<i>Session Chair: Meisong Tong, Tongji University, China</i>	
FR-OP.1A.1	08:00-08:40
Multiple Scattering of Waves with Applications in Microwave Remote Sensing, Metasurfaces and Photonic Crystals	
<i>Leung Tsang, University of Michigan, Ann Arbor, MI, USA</i>	
 FR-OP.1A.3	 08:40-09:20
From Mode to Beams: Simulation, Design and Implementation of Multi-Mode Antennas for Beamforming	
<i>Christophe Fumeaux, The University of Queensland, Brisbane, Australia</i>	
 FR-OP.1A.4	 09:20-10:00
Computational Electromagnetics for Smart EM Environments	
<i>Andrea Massa, University of Trento, Trento, Italy</i>	
 Tea Break	 10:00-10:20
 FR-OP.1A.5	 10:20-11:00
Complexity Breaking Complexities in Computational Electromagnetics: Best Practices for Leading through Difficult (Computational) Times	
<i>Francesco Andriulli, Politecnico di Torino, Turin, Italy</i>	
 FR-OP.1A.6	 11:00-11:40
Toward Seamless Refinement: Unifying Hybrid Elements and High-Order Singular Bases for 3D p/h-Conformity	
<i>Roberto Graglia, Politecnico di Torino, Torino, Italy</i>	
 FR-OP.1A.7	 11:40-12:20
From Engineering Electromagnetics to Electromagnetic Engineering: Teaching/Training Next Generations	
<i>Levent Sevgi, Istanbul Technical University, Türkiye</i>	

Friday, April 10	13:40-17:50
FR-OP.1P	Vienna, 3rd Floor

Session: Keynote Speeches(Online)

Session Chair: Meisong Tong, Tongji University, China

FR-OP.1P.1 **13:40-14:20**

Higher Order Computational Electromagnetics: From Intellectual Curiosity to Practical Tools and Applications

Branislav M. Notaros, Colorado State University, Fort Collins, Colorado, USA

FR-OP.1P.1 **14:20-15:00**

Making Classical Electromagnetic Solution to be Quantum Compliant

Weng Cho Chew, Purdue University, West Lafayette, IN, USA

FR-OP.1P.2 **15:00-15:40**

Pushing the Boundaries of Computational Electromagnetics – Application to Antenna Designs, Placement, Co-site Interference Simulations and Digital Twins

C. J. Reddy, Altair Engineering, Troy, MI, USA

Tea Break **15:40-16:10**

Session: Integrated EM Sensing and Propagation Modeling for Intelligent Vehicular Networks

Session Chairs: Xia Wu, Tongji University; Xiuzhu Ye, Beijing Institute of Technology

FR-OP.1P.3 **16:10-16:30**

Evaluating Indirect Effects of Lightning on Vehicle Engines via Signal Measurement Loops

Bowen Wang, AECC Commercial Aircraft Engine Co., Ltd.

FR-OP.1P.4 **16:30-16:50**

Radiated EMI Susceptibility of a 77-GHz PMCW Radar: Anechoic vs. Reverberation Chamber Analysis

Syed Imran Haider, Zhejiang University, ZJU-UIUC Institute

FR-OP.1P.5 **16:50-17:10**

RG-BEV: A Height-Prior Guided Framework for Roadside 3D Object Detection

Yuxuan Liu, Tongji University

FR-OP.1P.6 **17:10-17:30**

Uncertainty-Guided Evidential Deep Learning Schemes in Full-Wave Inverse Scattering Problems

Li Tingyu, Song Rencheng, Beijing Institute of Technology

FR-OP.1P.7

17:30-17:50

Wideband Millimeter-Wave Short-Range Imaging: A K-space Spectral Integration Approach and Comparative Analysis

Ji Yuanchen, Zhang Xinhui, Beijing Institute of Technology

FR-OP.1P.8

17:50-18:10

FDTD-Driven Phase-Error-Aware Calibration of Maglev Tunnel MIMO Channel Models

Meng Lan, Jianfeng Liu, Meng Mei, Zhongwei Xu

Friday, April 10

14:00-18:25

FR-OP.2P

Prague Hall, 3th Floor

Session: IEEE AP-S DL Workshop Asia Series

Session Chair: Levent Sevgi

FR-OP.2P.1

14:00-14:45

Electrically Small Antennas: Advances in Efficiency, Bandwidth, and Directivity

Richard W. Ziolkowski, Department of Electrical and Computer Engineering, The University of Arizona, Tucson, AZ 85721, USA

FR-OP.2P.2

14:45-15:30

Advanced Computational Electromagnetics: Beyond the Standard Numerical Modeling Techniques

Özlem ÖZGÜN, Department of Electrical and Electronics Engineering Vice Dean, Faculty of Engineering Hacettepe University, Ankara, TURKEY

Tea Break

15:40-16:10

FR-OP.2P.3

16:10-16:55

Electromagnetic Sensing and Imaging (for general audience)

Maokun Li, Tsinghua University, China

FR-OP.2P.4

16:55-17:40

Explicit, Implicit and Fundamental Schemes for FDTD Methods in Electromagnetics Computation and Education

Eng Leong Tan, Nanyang Technological University, Singapore

FR-OP.2P.5

17:40-18:25

Antennas, Arrays & Calibration: Beam Forming and Beam Steering

Levent Sevgi, ITU - Istanbul Technical University

Friday, April 10 **14:00-18:10**
FR-OP.3P **Leeds Hall, 3rd Floor**

Session: Advances in Multiphysics Modeling and Simulation for Computational Electromagnetics: From Algorithms to Engineering Applications

Session Chairs: PING LI, University of Electronic Science and Technology of China; Kai-Kun Niu, Anhui Univeisty

FR-OP.3P.1 **14:00-14:20**

A Parallel Robin Transmission Condition-Enhanced Discontinuous Galerkin Method for Transient Thermo-Mechanical Analysis of 3-D Integrated Circuits

Tianxiang Song, Shanghai Jiao Tong University

FR-OP.3P.2 **14:20-14:40**

A Structure-Preserving UPML Formulation for Multisymplectic FDTD Methods

Zhipeng Chen, Linqing Li, Kaikun Niu, Zhixiang Huang, Xianliang Wu, Anhui Unversity

FR-OP.3P.3 **14:40-15:00**

Accelerating MLFMA Aggregation/Disaggregation Operations through Component-Separated Tucker Compression

HaoHui Ge, Yang Liu, Institute of Applied Physics and Computational Mathematics, Beijing, China

FR-OP.3P.4 **15:00-15:20**

Deep Unrolled Newton Method for Electromagnetic-Thermal Multiphysics Analysis

Zengkai Wu, Ping Li, Shanghai Jiao Tong University

FR-OP.3P.5 **15:20-15:40**

Massive Curved Mesh Generation Framework for Complex Geometries

Shu-Jie Li, Hang Si, Beijing Computational Science Research Center

Tea Break **15:40-16:10**

Session: Advances of EMplus and AI Technology in Interdisciplinary Research

Session Chairs: Naixing Feng, Anhui University; Yuxian Zhang, Anhui Unversity

FR-OP.3P.6 **16:10-16:30**

Intelligent Prediction of Far-Field Patterns for Conformal Metasurfaces Based on Neural Networks

Wenxuan Luo, Jianlin Su, Xiongwei Wu, Qicheng Chen, Jianwei You, Junjia Wang

FR-OP.3P.7 **16:30-16:50**

A Multimodal fMRI Signal Reconstruction Model Based on Cross-Attention Mechanism

Ruiyue Tang, Renzhou Gui, Yaqi Wang, Jiawei Bi

FR-OP.3P.8 **16:50-17:10**

Linear-Array Beamforming Based on Particle Swarm Optimization with Time-Varying Tuning

Yinbin Pan

FR-OP.3P.9 **17:10-17:30**

Application of SPR-driven h-adaptive Method of Moments in UWB Antenna

Qun Wei, Qingyu Feng, Lixia Yang, Zhixiang Huang

FR-OP.3P.10 **17:30-17:50**

Manifold Restoration for Robust 2D DOA Estimation of Coherent Sources in Disordered Arrays

Jie Wang, Qun Wei, Qingyu Feng

FR-OP.3P.11 **17:50-18:10**

High-Confidence Deep Learning Model Based on Multiple Electromagnetic Physical Signals for Fault Diagnosis of Particle Accelerator Power Systems

Zhiyu Xu, Haini Qu, Jiahao Gong, Junjie Zhang

Friday, April 10 **14:00-18:10**

FR-OP.4P **Sydney Hall, 3rd Floor**

Session: Advances on metasurfaces and applications of antennas

Session Chairs: Zhangjie Luo, Southeast University; Yongtao Jia, Xidian University; Sijia Li, Air Force Engineering University

FR-OP.4P.1 **14:00-14:20**

Design and Experiment of Millimeter-Wave Quasi-Optical Mode Converter Antenna for Gyrotron Application

Qili Huang, Linlin Hu, Lijun Yi, Shenggang Gong, Yi Jiang, Peng Hu, Luqi Zhang, Dimin Sun, Guowu Ma, Xiao Jin, Institute of Applied Electronics, China Academy of Engineering Physics

FR-OP.4P.2 **14:20-14:40**

A Frequency- and Code-Division Multiplexing Scheme Using Time-Coding Metasurface

Qirui Wang, Zhangjie Luo, Fan Yang, Tie Jun Cui, southeast university

FR-OP.4P.3	14:40-15:00
Control of scattering fields based on phase and amplitude codings with programmable metasurfaces	
<i>Yuhao Wu, Sijia Li, Zhe Cheng, Liqiu Hu, Zhibo Huang, Ming Liu, Air Force Engineering University</i>	
FR-OP.4P.4	15:00-15:20
A Sparse Programmable Metasurface for Beam Scanning	
<i>Zhangjie Luo, southeast university</i>	
FR-OP.4P.5	15:20-15:40
Design and Scaled-Model Experimental Study of a Low-Frequency Broadband Absorber	
<i>Peixi Xu, Juan Chen, Kaihang Fan, Xi'an Jiaotong University</i>	
Tea Break	15:40-16:10
Session: AI enhanced forward simulation and inverse problems	
<i>Session Chairs: Yunyun Hu, Tongji University; Qingtao Sun, Eastern Institute of Technology; Yiqian Mao, Southeast University</i>	
FR-OP.4P.6	16:10-16:30
PhyDiff: Physics-Guided Latent Diffusion for Trustworthy and High-Fidelity Electromagnetic Inverse Scattering	
<i>Xingran Guo, Tiaojie Xiao, Qi Cheng, Zongyi Zhou, Jie Liu, Keqin Li</i>	
FR-OP.4P.7	16:30-16:50
Electromagnetic Equivalent Source Reconstruction via Subspace Projection and Neural Learning	
<i>Jiexin Hu</i>	
FR-OP.4P.8	16:50-17:10
A Physics-Driven Unet for Electromagnetic Inverse Scattering Problems	
<i>Hui Wang, Qing He, Meisong Tong, Qingtao Sun</i>	
FR-OP.4P.9	17:10-17:30
A machine learning approach for near-field prediction of array structures	
<i>Ao Di Yang, Jian Wei You</i>	
FR-OP.4P.10	17:30-17:50
Deep learning method for electromagnetic scattering with wavelet transform-based feature fusion and complex-valued neural network	
<i>Junjie Yan, Li Luo, Yingjia Li, Xunjie Xu, Yi Qian Mao, School of Information Science and Engineering, Southeast University</i>	

FR-OP.4P.11 **17:50-18:10**

*Retrieval of Second-Order Nonlinear Media Based on Contrast Source
Inversion Method*

Shi Qiang Wu, Bo O. Zhu, Mei Song Tong

Friday, April 10

14:00-17:50

FR-OP.5P

Marseilles Hall, 3rd Floor

**Ulrich L. Rohde Innovative Conference Paper Awards & Best Student Paper Awards
Competition**

*Session Co-Chairs: Amir Boag, Tel Aviv University; Vladimir Okhmatovski University of
Manitoba*

FR-OP.5P.1

14:00-14:20

**Novel Non-Iterative Numerical Quadratures for Singularities in
Multiphysics Formulations and Basis Functions**

Guido Lombardi, Politecnico di Torino, Italy

FR-OP.5P.2

14:20-14:40

**Fast Electromagnetic Modeling of Interconnect and Packaging
Structures Based on the Method of Moments with Dual Basis Function**

Shan Xue, Yi Cheng Liang, Mei Song Tong, Tongji University, China

FR-OP.5P.3

14:40-15:00

**A Theoretically Stable FDTD(2,4) Method Based on Projection SBP-SAT
Technique**

Weibo Wu, Wei-jie Wang, Xingqi Zhang, Xinyue Zhang

FR-OP.5P.4

15:00-15:20

**An Integral-Operator-Based 3D T-Matrix Framework for Many-Body
Scattering with Arbitrary Volumetric Current Excitations**

Zhukang Wang, Jinyan Ma, Jiahui Wang, Da Li, Er-Ping Li

FR-OP.5P.5

15:20-15:40

**Enhanced Fast Modelling of Electromagnetic Scattering From Multiple
Objects Based on CM and MLFMA**

Zhaoyuan Wang, Jihong Gu, Chao-Fu Wang, Jiamin Shi, Dazhi Ding

Tea Break

15:40-16:10

FR-OP.5P.6

16:10-16:30

Quantum Unified Theory of Characteristic Modes Framework for Modelling Large Finite Arrays

Chao-Fu Wang, Jihong Gu, Dazhi Ding, Nanjing University of Science and Technology, China; Guangshang Cheng, Yuwei Du, Zhixiang Huang, Anhui University, China

FR-OP.5P.7

16:30-16:50

Applicability Analysis of Creeping Waves Diffraction Mechanism in Attributed Scattering Center Model

Qingyun Liu, Qi Huang, Jindou Yuan, and Qihui Zhang, National Key Laboratory of Scattering and Radiation, China

FR-OP.5P.8

16:50-17:10

Fast Direct Solution with Directional Equivalence Sources for Wideband Electromagnetic Scattering Problems

Yuhan Zuo, Francesca Vipiana, Dazhi Ding, Nanjing University of Science and Technology

FR-OP.5P.9

17:10-17:30

A Novel Source Transfer Overlapping Domain Decomposition Method for Large-scale Modeling

Zhanwen Wang

FR-OP.5P.10

17:30-17:50

Implicit-Explicit Wave Equation-Based Hybrid Element-Level and Subdomain-Level DGTD Method

Youshen Tian, Wen Chen, The Hong Kong Polytechnic University; Heng Cao, Shanghai Jiao Tong University; Lixiao Wang, Qingtao Sun, Qing Huo Liu, Eastern Institute of Technology

Saturday, April 11

Saturday, April 11	08:10-12:00
SA-OP.1A	Vienna Hall, 3rd Floor

Best Student Paper Awards Competition

Session Co-Chairs: Amir Boag, Tel Aviv University; Vladimir Okhmatovski University of Manitoba

SA-OP.1A.1 08:10-08:30

Accurate Solution of Time-domain Volume Integral Equations for Transient Electromagnetic Scattering by Chiral Objects

Yi Cheng Liang, Shan Xue, Mei Song Tong

SA-OP.1A.2 08:30-08:50

A Stable and Efficient FDTD Subgridding Method for Thin PEC Sheet Structures

Langran Deng, Shunchuan Yang

SA-OP.1A.3 08:50-09:10

An Iterative ACA-Accelerated Framework for Broadband Analysis of Platform-Mounted Antennas

Zhou Xu, Xidian University

SA-OP.1A.4 09:10-09:30

CFS-PML ABC for the Vector–Scalar Potential Formulation in FDTD method

Wangchao Hu, Renze Xie, Guilin Hou, Guoda Xie, Zhixiang Huang

SA-OP.1A.5 09:30-09:50

Brief Comparison of the Marching-on in Time Algorithms for the Electromagnetic Scattering of Uniformly Moving PEC Objects

Guomin Liu, Gaobiao Xiao, Mengxia Hu, Junwei Zhu

Tea Break 09:50-10:20

SA-OP.1A.6 10:20-10:40

Parameterized Construction of Polygonal Vector Basis Functions via Geometric-Encoded PINNs

Liu-Hua Chen, Bi-Yi Wu, and Xin-Qing Sheng, Beijing Institute of Technology, China

SA-OP.1A.7 10:40-11:00

Research on Characteristic Mode Analysis Method Based on Partially Overlapping Basis Functions

Yaji Zuo

SA-OP.1A.8 **11:00-11:20**

A Trustworthy Multilevel Fast High Frequency Method for Multi-layer Coated Scatterers

Han Kun Ma, Yu Mao Wu

SA-OP.1A.9 **11:20-11:40**

An Efficient Method for Wideband Electromagnetic Scattering Analysis of Periodic Array

Yuwei Du

SA-OP.1A.10 **11:40-12:00**

An Adaptive Refinement Method for Wideband Electromagnetic Analysis Using Integral Equations

Haojie Cao, Ran Zhao, Lin Lei, Ming Jiang, Xiong Yang

Saturday, April 11

08:10-12:00

SA-OP.2A

Prague Hall, 3rd Floor

Session: Multiphysics Simulation for RF Systems: From Numerical Methods to Intelligent Computing

Session Chairs: Huan Huan Zhang, Xidian University; Guang Shang Cheng, Anhui University; Meng Meng Li, Nanjing University of Science of Technology

High-Performance Electromagnetic Computation and Multiphysics Simulation: From Theoretical Methods to Engineering Applications

Session Chairs: Juan Chen, School of Information and Communications Engineering, Xi'an Jiaotong University; Zi He, Department of Communication Engineering, Nanjing University of Science and Technology

SA-OP.2A.1 **08:10-08:30**

Mechanism and Simulation of Ion Energy Distribution Control via Bias Voltage in Low-Temperature RF Capacitively Coupled Plasmas

Yan Zhang, Hongxuan Mu, Zhenzi Feng, Junlong Liu, Zhigang Huang, Beihang University

SA-OP.2A.2 **08:30-08:50**

A Dynamic Group Target Recognition Method Based on Time-Varying Parametric Scattering Model

Jiayi Shi

SA-OP.2A.3 **08:50-09:10**

PCB Board-Level Thermal Conduction Simulation and Temperature Prediction via Deep Energy Method

Fei Fei Yuan, Qing Nan Fan, Peng Liu, Huan Huan Zhang, Bian Wu, Ying Liu

SA-OP.2A.4 **09:10-09:30**

A Fast Prediction Method for Temperature Field of Heatsinks in Electronic Devices Based on Graph Neural Networks

Hong Bin Zhang, Zheng Lang Jia, Peng Liu, Huan Huan Zhang, Bian Wu, Ying Liu

SA-OP.2A.5 **09:30-09:50**

Multiphysics Simulation for RF Systems.: from Numerical Methods to Intelligent Computing

Yaohui Tang, Guoda Xie, Guilin Hou, Zhixiang Huang, Xianliang Wu

Tea Break **09:50-10:20**

SA-OP.2A.6 **10:20-10:40**

An FLOD-FDTD Method for Electromagnetic – Thermal Coupled Simulation of Heterogeneous Materials

Yaohui Tang, Guoda Xie, Guilin Hou, Zhixiang Huang , xianliang Wu

SA-OP.2A.7 **10:40-11:00**

Stability and Accuracy Analysis of Modified Conformal FDTD Methods for Electromagnetic Simulations

Guilin Hou, Haifeng Fang, Yiru Liang, Guoda Xie, Zhixiang Huang

SA-OP.2A.8 **11:00-11:20**

Resonance Order Analysis of Surface Plasmon-Polariton Waves for SERS Periodic Slot Waveguide Design

Ziyu Wang, Shi Pu, Linghao Xiong, Xuehua Zhang, Jingxing Guo, Si Hao, Tianyi Lou, Chen Wang

SA-OP.2A.9 **11:20-11:40**

A Heterogeneous High-Order Finite-Difference Time-Domain Method on Supercomputing Platforms

Junfei Chen, Nanjing University of Science and Technology

SA-OP.2A.10 **11:40-12:00**

ELF Propagation Characteristic in Magnetized Ionosphere with Implicit GPU-FDTD

Songming Zou, Kuisong Zheng, Zhewen Chen, Junke Wang, Zhancao Guo, Northwestern Polytechnical University; Shitian Zhang, China Research Institute of Radio Wave Propagation

Saturday, April 11

08:10-12:00

SA-OP.3A

Leeds Hall, 3rd Floor

Session: Electromagnetic scattering and inversion in complex environments

Session Chairs: Hongxia YE, Fudan University; Anxue Zhang, Xi'an Jiaotong University; Yumao Wu, Fudan University

Session: Advances in Intelligent Electromagnetic Computation and Optimization Techniques

Session Chairs: Feng Xu, Fudan University; Shilei Fu, Fudan University

SA-OP.3A.1 **08:10-08:30**

Multipath Exploitation in Highly Reflective Environments for Enhanced Microwave Imaging via Inverse Source Reconstruction

Quanfeng Wang, Thomas F. Eibert, Technical University of Munich; Mei Song Tong, Tongji University

SA-OP.3A.2 **08:30-08:50**

The surface current reconstruction method based on EFIO and multibranch RWG basis function

Rui Liu, Dejiang Shang, Chao Zhang, Boxuan Shi, Gaobiao Xiao

SA-OP.3A.3 **08:50-09:10**

An Efficient Differentiable Model Based on the High Frequency Scattering Method to Optimize the Surface Reflectivity of Coated Target

Xiao Jie Zhang, Yu Ying Dou, Yu Mao Wu

SA-OP.3A.4 **09:10-09:30**

Cluster-Level Bayesian Constraints for SMRT Forward Modeling of Antarctic Sea-Ice Brightness Temperatures Using AMSR2 and SMOS

WanJun Jiang, HongXia Ye

SA-OP.3A.5 **09:30-09:50**

A Denoising Diffusion Probabilistic Model for Extracting Sparse Parameters of the Attributed Scattering Center

Xianying Luo, Yanan Lu, Yumao Wu

Tea Break **09:50-10:20**

SA-OP.3A.6 **10:20-10:40**

Mixture of Experts and Ensembles of Deep Neural Networks for Antenna Modeling

Darko Ninković, Shaik Basheeruddin Shah, Ahmed Altunajji, Nazar Ali, Dragan Olćan

SA-OP.3A.7 **10:40-11:00**

Passive UHF RFID Tag with Highly Isotropic Response and Small Electrical Size

Javier Araque

SA-OP.3A.8 **11:00-11:20**

A DeepONet-Assisted Multi-Objective Optimization Framework for Efficient Design of CNTFETs

Yunlin Zou, Shuo Zhang, Hao Xie, Zhun Wei, Wen-Yan Yin

SA-OP.3A.9 **11:20-11:40**

Physics-Informed Intelligent Inversion of Radar Targets Using Electromagnetic Scatterer Dictionary and Interpretable Neural Networks

Xiuxiu Chen, Shilei Fu

Saturday, April 11

08:10-12:00

SA-OP.4A

Sydney Hall, 3rd Floor

Session: Computational methods in analysis and design of metasurfaces

Session Chairs: Jun Wei Wu, Southeast University; Han Ru Shao, Yangze Delta Institute (Huzhou), University of Electronic Science and Technology of China

Session: Reconfigurable and Space-Time-Modulated Metasurfaces for Manipulating Electromagnetic Waves

Session Chairs: Yunjing Zhang, Soochow University; Linghui Kong, Qianyuan Laboratory

SA-OP.4A.1 **08:10-08:30**

Extracting The Equivalent Circuit Model of Frequency Selective Surfaces For Wideband Analysis Under Arbitrary Incidence

Jiaqi Ding, Shandong Normal University

SA-OP.4A.2 **08:30-08:50**

An Efficient and Physics-Compatible Approach for Single- and Dual-Polarized RIS Design

Lu Yingjuan, Cheng Qiang

SA-OP.4A.3 **08:50-09:10**

A Simple and Efficient Beamforming Approach for Millimeter-Wave Reconfigurable Intelligent Surfaces Using the Branch and Bound Algorithm

Tian Xie, Jun Wei Wu

SA-OP.4A.4 **09:10-09:30**

Random Quantization and Statistical Synthesis for Low-Bit Digital Metasurfaces

Cai Yu Qian, Jun Wei Wu

SA-OP.4A.5 **09:30-09:50**

Analyzing Periodic Arrays using Fast Characteristic Mode Method
Hanru Shao

Tea Break **09:50-10:20**

SA-OP.4A.6 **10:20-10:40**

Efficient DOA Estimation via Compressive Sensing and Space-Time-Coding Metasurfaces
Hui Xu, Jun Wei Wu, Tie Jun Cui

SA-OP.4A.7 **10:40-11:00**

Stacked Intelligent Metasurface Achieving Sharp Frequency Filtering with Polarization and Spectral Reconfigurability
Weiren Zhu

SA-OP.4A.8 **11:00-11:20**

A Deep-Learning-Enhanced DGTD Framework for Efficient Electromagnetic Simulation For Complex Dispersive Structures
Yuhang Zhu, Shijie Bi, Hanru Shao

SA-OP.4A.9 **11:20-11:40**

Design of Wideband Ridged Waveguide Slot Array Antenna and Its Decoupling Technique for Ku-Band Satellite Application
Yan Qu, Honghui Jiang, Mengyang Huangfu, Qi Zheng

SA-OP.4A.10 **11:40-12:00**

A Flexible Time-Modulated Metasurface for Radar Stealth
Xu Qing Xiong, Ling Hui Kong, Mei Song Tong

Saturday, April 11 **08:10-12:00**

SA-OP.5A **Marseilles Hall, 3rd Floor**

Session: Self-Powered Wireless Sensing Technologies for Smart Environments

Session Chairs: Lei Guo, Dalian University of Technology

SA-OP.5A.1 **08:10-08:30**

Microwave Biomedical Radar for Healthcare Applications
Changzhan Gu

SA-OP.5A.2 **08:30-08:50**

Space-Time Metasurface Antennas for Integrated Sensing and Communication
Gengbo Wu

SA-OP.5A.3 **08:50-09:10**

Toroidal Pulses and Their Applications in Wireless Sensing
Ren Wang

SA-OP.5A.4 **09:10-09:30**
A Parity-Time Symmetric Wireless Sensing System with an Integrated Reader
Ke Yin, Lu Tan, Yang Yang, Huacheng Zhu

SA-OP.5A.5 **09:30-09:50**
Energy Harvesting Techniques for Self-Power IoT Sensors
Jun-Hui Ou

Tea Break **09:50-10:20**

SA-OP.5A.6 **10:20-10:40**
Synergistic Regulation of Energy and Information: An Integrated Radiation-Scattering Metasurface Paradigm for 6G
Jiaqi Han, Yajie Mu, Long Li

SA-OP.5A.7 **10:40-11:00**
Topological clothing for wireless bioelectronics
Zhipeng Li

SA-OP.5A.8 **11:00-11:20**
Rectifying Metasurface for Harvesting Electromagnetic and Optical Energy
Junfei Ji, Fan Yu, Zhoulun Fan

SA-OP.5A.9 **11:20-11:40**
Exploiting New Degrees of Freedom: Unlocking Next-Gen Sensing & Communication Modalities
Jingzhi Zhang

SA-OP.5A.10 **11:40-12:00**
Wireless Energy Harvesting Enabled Electromagnetic Wave Polarization Detection: A Review
Yan Zhang, Jiahong XING, runze Huang

Saturday, April 11 **14:00-18:10**
SA-OP.1P **Vienna Hall, 3rd Floor**

Session: Electromagnetic Computation and Applications

Session Chairs: Siyuan He, Wuhan University; Qi Huang, National Key Laboratory of Scattering and Radiation; Zhidan Bian, Wuhan University

FR-OP.1P.1 **14:00-14:20**

Quantitative Evaluation of Phase Perturbation Effects in UAV-Towed VLF Distributed Arrays Using Monte Carlo Methods
Haitao Chen, Longjun Zhou, Jie Yu

FR-OP.1P.2

14:20-14:40

Phaseless Source Reconstruction Method Over Arbitrary Equivalent Surfaces Using Rooftop Basis Functions
Yuyang Wang, Shandong Normal University

FR-OP.1P.3

14:40-15:00

Frequency-Reconfigurable Compact Antenna Design for Dual-Band Connectivity in Sub-6 GHz and mmWave ISM Bands
Mirza Shujaat Ali, Abdul Jabbar, Muhammad Ali Imran, Masood Ur Rehman

FR-OP.1P.4

15:00-15:20

Surface Roughness Impacts on Phase Shift and Insertion Loss of 60 GHz Liquid Crystal Coaxial Delay Line Based on Groisse's Model
Jinfeng Li, Beijing Institute of Technology & Imperial College London;
Haorong Li, Beijing Institute of Technology

FR-OP.1P.5

15:20-15:40

Calculation of Multi-Conductor Inductance Matrix Based on the Finite Element Method
Shi Tong Zhang, Guang Hao Liu

Tea Break

15:40-16:10

Session: Millimeter-wave Antenna Array

Session Chairs: Zhijiao Chen, Beijing University of Posts and Telecommunications; Yizhu Shen, Southeast University

FR-OP.1P.6

16:10-16:30

W-band Sparse Slot Array for Circular Shaped Monopulse Antenna
Yutong Liu, Beijing University of Posts and Telecommunications

FR-OP.1P.7

16:30-16:50

Design of a Low-cost and Low-loss Glass-based Antenna-in-Package
Zhichen Zhuang, Lixing Chen, Yuhang Dou, Miao Zhang

FR-OP.1P.8

16:50-17:10

A Holographic Metasurface Antenna Based on a Two-state Unit Cell for Beam Steering
Hui Lu, Song Xue

FR-OP.1P.9 **17:10-17:30**

Non-Drilled Half-Mode Vivaldi Photonic Antenna
zhenni kuang, zhanyu yang, hao feng

FR-OP.1P.10 **17:30-17:50**

Progress in mmWave/THz High-Performance Antenna-in-Package
Technologies From Antenna Design to System Integration
Yafei Wu, Gang Zhuang

FR-OP.1P.11 **17:50-18:10**

A Compact Broadband High-Isolation Dual Circularly Polarized Antenna
Array
Meng-Liang Wang

Saturday, April 11 **14:00-18:10**

SA-OP.2P **Prague Hall, 3rd Floor**

**Session: Scientific Computing and Machine Learning in Geophysical Electromagnetic
Prospecting**

*Session Chairs: Decheng Hong, Jilin University; Dikun Yang, Southern University of Science
and Technology*

SA-OP.2P.1 **14:00-14:20**

*An Efficient Multigrid Smoother based on Finite Element Method for 3-
D Magnetotelluric Data*
Xinhao Chen, Rongwen Guo

SA-OP.2P.2 **14:20-14:40**

*3D Magnetotelluric Inversion Accelerated by Divergence-Free
Regularization with Multigrid*
Dengkang Wang, Rongwen Guo, Yongfei Wang

SA-OP.2P.3 **14:40-15:00**

*Magnetic Anomaly Component Transformation Based on Broad
Learning*
Qiang Zu, Tao Tao, Xiao-Hui Yang, Peng Han

SA-OP.2P.4 **15:00-15:20**

*3-D Fractional Order Modelling Method of Multiple Effects in ATEM
Surveys*
Shuang Lv, Hui Luan, Yanju Ji, Huaishi Liu

SA-OP.2P.5 **15:20-15:40**

*3D Spectral-Element Forward Modeling for Airborne Electromagnetic
Methods Considering Induced Polarization Effect*
Beirong Liu, Huang Xin, Xiaoyue Cao, Liangjun Yan

Tea Break **15:40-16:10**

Session: Advanced method for RF, Microwave, and Millimeter Wave Devices and Circuits

Session Chairs: Xingang Ren, Anhui University; Meng Kong, Hefei Normal University; Gang Wang, Anhui University

SA-OP.2P.6 **16:10-16:30**

A Phased-Array FPGA-based phase computation method for satellite communications

Xinyu Huang, Xianliang Wu

SA-OP.2P.7 **16:30-16:50**

A Polarization-Reconfigurable Low-RCS Metasurface Antenna

Cai Wenxin, Anhui University

SA-OP.2P.8 **16:50-17:10**

A Symplectic Discontinuous Galerkin Time-Domain Algorithm for Debye Dispersive Media

Chenfeng Wang, Guilin Hou, Zhixiang Huang, Ran Zhao

SA-OP.2P.9 **17:10-17:30**

A 38 GHz Aperture-Coupled Slotted Patch Antenna with 3D-Printed Lens for Miniaturized Beam-Scanning Subarrays

XuRuoxi

SA-OP.2P.10 **17:30-17:50**

Design and Co-Optimization of a 27–31 GHz CPW-Based Integrated Filtering Power Divider

Deshun Huang, Yue Ma, Yong Cai, Ming Zhang, Xinyu Huang, Gang Wang, Xianliang Wu

SA-OP.2P.11 **17:50-18:10**

A Comparison of Gummel and Fully Coupled Iterations in Power BJT Simulation

Xingang Ren, Zhaosheng Xia, Zhixiang Huang

Saturday, April 11 **14:00-18:10**

SA-OP.3P **Leeds Hall, 3rd Floor**

Session: Advanced Electromagnetic Computation, Optimization and Scattering-Functional Design

Session Chairs: Pengfei Gu, Nanjing University of Science and Technology; Zi He, Nanjing University of Science and Technology

SA-OP.3P.1 **14:00-14:20**

Efficient Broadband Electromagnetic Scattering Analysis Based on Compressive Sensing and ACA

Wu Chenggang, School of Electrical and Information Engineering, Anhui University of Science and Technology

SA-OP.3P.2

14:20-14:40

Miniaturized Artificial Magnetic Conductor Design for Specific Absorption Rate Reduction in UHF Band Wearable Antennas

Mehmet Doğan, Mesut Kartal, Istanbul Technical University

SA-OP.3P.3

14:40-15:00

Sparse design of spherical phased array based on sector partitioning

Yu Qiao, Pengfei Gu, Siyu Wu, Qianlei Zhuang, Dazhi Ding

SA-OP.3P.4

15:00-15:20

Regulation Technique of Near-field Angular Glint Based on the Shooting and Bouncing Method

Yuzhe. Luan, Mingrou. Shi, Zi. he, Dazhi.Ding, Hongcheng. Yin

SA-OP.3P.5

15:20-15:40

Temporal Correlation Analysis of Dynamic Nonlinear Oil-Covered Sea Surfaces With TSSA-MF

Yuqiao.Zhao, Zi. he, Dazhi.Ding

Tea Break

15:40-16:10

SA-OP.3P.6

16:10-16:30

Design of a Novel Tightly Coupled Ultra- Wideband Transmit-Array Based on a Modified Vivaldi Antenna

Xinyue Zhou, Pengfei Gu, Zihao Cao, Dazhi Ding

SA-OP.3P.7

16:30-16:50

A Novel Matrix Grid-Offset Mapping Method for Beam Pattern Synthesis of Rectangular Planar Array

Yong Chen, Pengfei Gu, Hao Wen, Zhenhong Fan, Dazhi Ding

SA-OP.3P.8

16:50-17:10

A Physics-Informed Convolutional Neural Network Approach for Radiation Pattern Synthesis of Linear Antenna Arrays

Zhixing Zhong, Pengfei Gu, Hao Wen, Zhenhong Fan, Dazhi Ding

SA-OP.3P.9

17:10-17:30

Super-array-Based Design of Irregular Subarrays for Modular Phased Arrays

Sheng Zhang, Pengfei Gu, Yue Zhang, Zhenhong Fan, Dazhi Ding

SA-OP.3P.10

17:30-17:50

Hybrid Active Sampling Framework Based on FLOO and GPR

Min Zhao, Zi He, Da zhi Ding

SA-OP.3P.11

17:50-18:10

Design of a Wideband Low-RCS Antenna Based on Multiple Mechanisms

Jiayue Yang, Meiqin Lv, Juzheng Han, Pengfei Gu, Dazhi Ding

Saturday, April 11

14:00-18:10

SA-OP.4P

Sydney Hall, 3rd Floor

Session: Time-Domain Computational Electromagnetics: Theory, Methods, and Applications

Session Chairs: Bing Wei, Xidian University; Lixia Yang, Anhui University

SA-OP.4P.1

14:00-14:20

Electromagnetic Simulation Techniques for Vulkan-Capable Devices

Poman So

SA-OP.4P.2

14:20-14:40

Study on Uncertainty of Electromagnetic Scattering from Dusty Plasma

Based on S-FDTD Method

Gongyu Wang, Lixia Yang

SA-OP.4P.3

14:40-15:00

VLF radiation field from towed thin-wire antenna based on dipole approximation

Songming Zou, Zhancao Guo, Kuisong Zheng, Qiang Wu, Northwestern Polytechnical University; Shitian Zhang, China Research Institute of Radio Wave Propagation

SA-OP.4P.4

15:00-15:20

Rapid RCS Prediction for UAV Wing Structural Deformation Based on Artificial Neural Network

Xinyi Yu, Jianwei You

SA-OP.4P.5

15:20-15:40

A Simplified 3D Simulation Method for High-Power Microwave Gas Breakdown

Zhiqi Zhu, Yong Bo, Lixia Yang, Xianmin Guo, Moupin Jin, Dawei Li

Tea Break

15:40-16:10

SA-OP.4P.6 **16:10-16:30**

Research on Fast Calculation Method of CNTD-FDTD for the Lossy Flat-Plate Model

Xue-Qi Zheng, Zheng-Yu Huang

SA-OP.4P.7 **16:30-16:50**

Two-dimensional AI-based Electromagnetic Field Modeling Based on Proper Orthogonal Decomposition

Chengyu Zhang, Xuan Zheng, The State Key Laboratory of Millimeter Waves, Southeast University, China

SA-OP.4P.8 **16:50-17:10**

Hybrid Explicit-Implicit DGTD and FEM for Electromagnetic-Thermal Coupled Simulation of Antennas

Ling Zhao

SA-OP.4P.9 **17:10-17:30**

Towards Native AI Algorithms for Intelligent Computational Electromagnetics

Xuan Zheng, Tianjian Peng, Jianwei You

SA-OP.4P.10 **17:30-17:50**

S2cGAN: A Novel cGAN-based network for generating radar backscatter from soil surface

Dong Zhu, Chao Liu

SA-OP.4P.11 **17:50-18:10**

A TE Plane-Wave Source Implementation in DGTD for a Layered Half-Space

Qian Yang, Bing Wei, Linqian Li, Xidian University

Saturday, April 11 **14:00-17:50**

SA-OP.5P **Marseilles Hall, 3rd Floor**

Session: Advances in Multi-Mode Antennas for 5G/B5G Communication

Session Chairs: Lei Guo, Dalian University of Technology; Wen-Wen Yang, Nantong University

SA-OP.5P.1 **14:00-14:20**

A Novel Liquid Crystal Polymer-Based Circularly Polarized Antenna for GPS Applications

Chi Zhang, Jianying Zhao

SA-OP.5P.2 **14:20-14:40**

A Compact Frequency-Scanning Coupled-Patch Antenna with High Scanning Rate for Integrated Sensing and Communication

Shuguang Xiao, Yu Chen, Yingjie Cui, Zhili Zhao, Hui Tang, Kuandong Gao, Zhou Wu, Ming Liu, Dehong Tian, Ping Zou, Haixin Zou, Mingxiang Guan

SA-OP.5P.3

14:40-15:00

A Nonlinear-Frequency-Scanning Coupled-Patch Array Antenna for Secure Communication

Shuguang Xiao, Yu Chen, Yingjie Cui, Zhili Zhao, Hui Tang, Kuandong Gao, Zhou Wu, Ming Liu, Dehong Tian, Ping Zou, Haixin Zou, Mingxiang Guan

SA-OP.5P.4

15:00-15:20

Mapping Rules between Sectorial and Eclipsed Dipoles: Analytical and Numerical Results

Xue-Ying Lin, Chun-Xing He, Wen-Jun Lu

SA-OP.5P.5

15:20-15:40

Comparative Analysis of Multiband THz Patch Antennas with Asymmetrical Rectangular Slots for 6G Networks

Baris Gurcan Hakanoglu

Tea Break

15:40-16:10

SA-OP.5P.6

16:10-16:30

Design of Ultrawideband Leaf Shape Slot Antenna Using Theory of Characteristics Modes

M.Sai Debasisa Patra, Esambati Muni Venkata Tharun, Bappaditya Roy, M.Mahesh

SA-OP.5P.7

16:30-16:50

A Compact Vertically Polarized Omnidirectional Glass Dielectric Resonator Antenna for Tri-band Wi-Fi Applications

Zeming Hu, Lei Guo

SA-OP.5P.8

16:50-17:10

A Dual-Source Energy-Harvesting Sensor Node Enabled by Solar and RF Power for Battery-Free IoT Applications

Dongxiang Zhang, Xiaopeng Yao, Lei Guo, Ke Wu

SA-OP.5P.9

17:10-17:30

A Compact Dual-Band Antenna Integrated into the Camera Module for Wi-Fi 7 Mobile Devices

Hu-Jian Zou, Gu Liu, Wen-Wen Yang, Jian-Xin Chen

SA-OP.5P.10

17:30-17:50

*A Wideband Hybrid-FSS-Based Antenna with Wideband Electromagnetic
Transparency for Shared-Aperture Array*

Le Zhang, Gu Liu, Ling-Ling Yang, Wen-Wen Yang, Jian-Xin Chen

Sunday, April 12

Sunday, April 12	08:10-11:40
SU-OP.1A	Vienna Hall, 3rd Floor

Session: Advanced Techniques in Multiphysics Modeling and Applications

Session Chairs: Yang Bao, Nanjing University of Posts and Telecommunications; Ting Wan, Nanjing University of Posts and Telecommunications

SU-OP.1A.1 **08:10-08:30**

Transient Electromagnetic-thermal Coupling Analysis for Eddy Current Thermal Effect
Jiawei Chen

SU-OP.1A.2 **08:30-08:50**

Design of a Terahertz Circularly Polarized OAM Array Antenna with Graphene
Ziyuan Chen, Quanquan Wang, Yue Chen, Yunpeng Lyu

SU-OP.1A.3 **08:50-09:10**

A Kriging Accelerated 3D Simulation Model for Efficient Eddy Current B Scan
Yanjie Wu

SU-OP.1A.4 **09:10-09:30**

Intelligent Prediction of Electromagnetic Fields in Waveguides Using Physics Driven Neural Network
Hao Chen, Jian Zhu, Ting Wan

SU-OP.1A.5 **09:30-09:50**

Ray Tracing Combined with Machine Learning for Radio Wave Propagation Prediction
Peibo Wang, Xin Wang, Ting Wan

Tea Break **09:50-10:20**

SU-OP.1A.6 **10:20-10:40**

Liquid Crystal High-Aspect-Ratio Coplanar Phase Shifters with Diverse Alignments for 28/40 GHz
Jinfeng Li, Beijing Institute of Technology & Imperial College London;
Haorong Li, Beijing Institute of Technology

SU-OP.1A.7 **10:40-11:00**

One sentence placement: Natural-Language-Driven Component Placement for instant Signal Integrity/Power Integrity Feedback
Michelle Keah Lubale

SU-OP.1A.8 **11:00-11:20**

A New Method for Programmable Metasurface-Aided Microwave Computational Imaging Using Amplitude-Only Measurements
Hang Zhao, Fang-Fang Wang

SU-OP.1A.9 **11:20-11:40**

Laser Emission from High-Q Quasi-Bound States in Asymmetric Metasurfaces
Fang Ming

Sunday, April 12 **08:10-11:00**

SU-OP.2A **Prague Hall, 3rd Floor**

Session: Integral Equation-based Computational Techniques

Session Chairs: Amir Boag, Tel Aviv University; Vladimir Okhmatovski, University of Manitoba

Session: Advances in Fast Algorithms of Computational Electromagnetics

Session Chairs: Francesca Vipiana, Politecnico di Torino; Vladimir Okhmatovski, University of Manitoba

SU-OP.2A.1 **08:10-08:30**

Integral Equation-Based Analysis of Wave Propagation in Resonating Parallel-Plate Waveguides
Gokhan Apaydin, Levent Sevgi

SU-OP.2A.2 **08:30-08:50**

Physics-informed Transformer Residual Learning for Accelerating CFIE-based 3D EM Modeling
Haoran Sun, Maokun Li, Fan Yang, Shenheng Xu

SU-OP.2A.3 **08:50-09:10**

A Half-Space $A-\Phi$ Integral Equation Formulation for Low-Frequency Problems
Gengyao Li, Jimin Wang, University of Electronic Science and Technology of China

SU-OP.2A.4 **09:10-09:30**

Magnetic Current Multipole-based Generalized Source Integral Equation (GSIE)
Richard Kalhöfer, Yossi Dahan, Yaniv Brick, Amir Boag, Ludger Klinkenbusch

SU-OP.2A.5 **09:30-09:50**

An Efficient Electromagnetic Modeling Method for Parameter Extraction of On-Chip Interconnects
Zhe Yu Luo, Yu Mao Wu

Tea Break **09:50-10:20**

SU-OP.2A.6 **10:20-10:40**

A Spectral Integral Method for Non-smooth Multilayered Bodies of Revolution
Huimin Kang

SU-OP.2A.7 **10:40-11:00**

Spectral Analysis of Differential Surface Admittance and Surface Volume Surface Electric Field Integral Equations on a Dielectric Sphere
Martijn Huynen, Vladimir Okhmatovski, Daniel DeZutter, Dries Vande Ginste

Sunday, April 12 **08:10-11:20**

SU-OP.3A **Leeds Hall, 3rd Floor**

Session: Numerical Methods in Electromagnetics and EM measurements

Session Chairs: Ming-Da Zhu, Xidian University; Yi-Xuan Zhang, Xidian University

SU-OP.3A.1 **08:10-08:30**

Full-Polarisation BP Algorithm Imaging for Multiscale Targets Based on MB-RWG Basis Function Simulation Data
Xiyue Zhang, Yu Wang, Yu Cao, Wenjie Wang, Chengcheng Zhang, Cong Hua

SU-OP.3A.2 **08:30-08:50**

2D-MoM Simulations for the Assessment of Mono-static and Bi-static Near-Field RCS Measurement
Xiao-Kun Zhang, Ming-Da Zhu, Yong-Chang Jiao

SU-OP.3A.3 **08:50-09:10**

A Three-Stage Convex Optimization Based Sidelobe Refinement Method for Sparse Linear Synthesis
Yi-Xuan Zhang, Ye Hui, Yong-Chang Jiao

SU-OP.3A.4 **09:10-09:30**

A Point-Cloud-Based Surrogate Model for High-Frequency Structures
Guoqing Zhao, Liang Li, Xing Li, University of Electronic Science and Technology of China

SU-OP.3A.5 **09:30-09:50**

A Time-Domain Electric Field Integral Equation with MB-RWG Basis Functions for the Low-Frequency Simulation
Fan-Shu Wei, Yong Wang, Yi-Xuan Zhang, Ming-Da Zhu

Tea Break **09:50-10:20**

SU-OP.3A.6 **10:20-10:40**

Application of Near-Field Correlation Method for Wideband Mode Tracking of 3D Structures
Xi Chong You, Feng Han Lin, School of Information Science and Technology, ShanghaiTech University

SU-OP.3A.7 **10:40-11:00**

Shape-Independent Numerical Integration Scheme for the Near-Singular Green's Function by Radial Coordinate Transformations
Lianfeng Ma, Mingdong Luo, Ming-Da Zhu

SU-OP.3A.8 **11:00-11:20**

A Higher-Order CNTD-SGBC Method for Accurate Simulation of Dispersive Thin Layers
Mengcai Zhu, Institute of Applied Physics and Computational Mathematics, Beijing

Sunday, April 12 **08:10-11:00**

SU-OP.4A **Sydney Hall, 3rd Floor**

Session: Trustworthy Electromagnetic Computation and Applications

Session Chairs: Jun Hu, University of Electronic Science and Technology of China

SU-OP.4A.1 **08:10-08:30**

A Novel Combined Field Integral Equation with High-Order Impedance Boundary Condition
Zhanyu Pu, Ran Zhao, Yunbo Zhang

SU-OP.4A.2 **08:30-08:50**

A Novel FDTD Mesh Generation Method Based on CAD Models
Yuxuan Chen, Tong Li, Zhenhong Fan, Dazhi Ding

SU-OP.4A.3 **08:50-09:10**

Accurate Spatial Overlap Detection for Ray Tracing Acceleration Structures Using SAT
Yubiao Du, Wenlu Chen, Zhenhong Fan, Dazhi Ding

SU-OP.4A.4 **09:10-09:30**

MOR-Accelerated FEM for Arbitrary Cross-Section Microwave Transmission Structures
Wen Wei

SU-OP.4A.5 **09:30-09:50**
An Efficient Boundary Equivalent Source Scheme for Multi-level Skeletonization Fast Direct Solvers
Mingxuan Zhang

Tea Break **09:50-10:20**

SU-OP.4A.6 **10:20-10:40**
A Priori Mesh Refinement Strategy for Electromagnetic Simulation of Inhomogeneous Plasma Sheaths
Miao-Miao Peng, Xin-Qing Sheng

SU-OP.4A.7 **10:40-11:00**
An Efficient Distance Truncation Method for Full-Wave Ship-Sea Composite Scattering Using Local Current Response
Hao Xu, Xiao-Wei Huang, Xin-Qing Sheng

Sunday, April 12 **08:10-12:00**
SU-OP.5A **Marseilles Hall, 3rd Floor**

Session: Quantum Technologies Related to Electromagnetics
Session Chairs: Vladimir Okhmatovski, University of Manitoba; Chao-Fu Wang, Nanjing University of Science and Technology

SU-OP.5A.1 **08:10-08:30**
Efficient Simulation of Doppler-Broadened Rydberg Quantum Receivers via Monte Carlo Wave Functions
Wenjie Ding, Guoda Xie

SU-OP.5A.2 **08:30-08:50**
Recent Progress of Applying Quantum Computing for EM and Photonic Analyses
Jia Nan Zhang

SU-OP.5A.3 **08:50-09:10**
A Hybrid Quantum-Classical Scheme for Solving EFIE
Rui Chen, Teng-Yang Ma, Meng-Han Dou, Chao-Fu Wang

SU-OP.5A.4 **09:10-09:30**
Quantum Computing Method Based on FEM for Solving EM Problems
Feng Feng, Xiaolong Li, Qi-Jun Zhang

SU-OP.5A.5 **09:30-09:50**

Fine-tuning for hybrid variational quantum models to improve prediction accuracy of specified tasks

Tao Zhang, Bingbing Song, Tian Liu, Fei Guo, Zhuoyue Zhao, Zijun Hu, Wu Yang, Weibing Lu

Tea Break **09:50-10:20**

SU-OP.5A.6 **10:20-10:40**

Quantum-Walk HHL Algorithm for Solution of Matrix Equations

Christopher Phillips, Helia Akbari, Vladimir Okhmatovski

SU-OP.5A.7 **10:40-11:00**

Quantization of Electromagnetic Scattering in Characteristic Mode Basis

Ilay Levie, Gregory Slepyan, Amir Boag

SU-OP.5A.8 **11:00-11:20**

Linear Sparse Array Pattern Synthesis Based on Oscillation Fusion Differential Evolution

K-L WAN, Yan-Ting LIU

SU-OP.5A.9 **11:20-11:40**

Power Analysis of FinFET Based Pre-Scaler 32/33 Frequency Divider Operating at 1GHz

N. Vinay Kumar Reddy, Umakanta Nanda

SU-OP.5A.10 **11:40-12:00**

Sierpinski Carpet Fractal Nano-Antenna for THz Applications

Poonam Namdeo, Yachika Sood, Mridula Gupta, Biswajeet Mukherjee

Friday, April 10 **14:00-18:10**

SU-OP.1P **Vienna Hall, 3rd Floor**

Session: Advances in Electromagnetic Wave Propagation and Scattering: Methods, Models, and Applications

Session Chairs: Hao Qin, Sichuan University; Xinyue Zhang, University College Dublin; Xingqi Zhang, University of Alberta

SU-OP.1P.1 **14:00-14:20**

Parasitic-Decoupled Compact Four-Port Orthogonal MIMO Antenna for ISM Wireless systems

Maddirala Ajay Kumar

SU-OP.1P.2 **14:20-14:40**

Integrated Self-Isolation Technique for a Compact Wideband ISM MIMO Antenna
Maddirala Ajay Kumar

SU-OP.1P.3 **14:40-15:00**

Physics-Informed Tunnel Network for Efficient High-Resolution Radio Wave Propagation Modeling
Zihan Du, Dong He, Kunyu Wu, Yuqi Ouyang, Hao Qin, Xinyue Zhang, Xingqi Zhang

SU-OP.1P.4 **15:00-15:20**

Intelligent Optimization of Access Point Deployment in Communication-Based Train Control Systems
Zihan Feng, Kunyu Wu, Qiushi Zhao, Sicheng An, Hao Qin, Xinyue Zhang, Xingqi Zhang

SU-OP.1P.5 **15:20-15:40**

Probability Distribution Function Estimation for Tunnel Propagation via the Multilevel Monte Carlo Method
Sicheng An, Zhehang Ye, Luca Di Rienzo, Hao Qin, Xinyue Zhang, Xingqi Zhang, Lorenzo Codecasa

Tea Break **15:40-16:10**

Session: Advanced Computational Electromagnetics: Methods and Applications
Session Chairs: Xiaomin Pan, Beijing Institute of Technology; Shunchuan Yang, Beihang University

SU-OP.1P.6 **16:10-16:30**

A Domain Decomposition-Based Model Order Reduction Method for FEM Electromagnetic Analysis
Zihan Yang, Mingming Tang, Yanfeng Lu, Zhenhong Fan, Dazhi Ding

SU-OP.1P.7 **16:30-16:50**

Analysis the Frequency Properties of EM Wave in Time-Varying Magnetized Plasma with DGTD
Xianmin Guo, Chao Liu, Dong Zhu, Xiaolong Pan, Yong Bo, Wei Chen, Lixia Yang

SU-OP.1P.8 **16:50-17:10**

A DL-based Scheme for Solving EM Scattering From Scatterers With Incomplete Profiles
Ji-Yuan Wang, Liang Zhang, Yun-Chuan Wang, Xin-Yue Lou

SU-OP.1P.9 **17:10-17:30**

A Stable SBP-SAT FDTD Subgridding Method for T-Junction Blocks Applied to PEC Wedge Analysis

Yuhui Wang, Wei-Jie Wang, Jian Wang, Xingqi Zhang, Xinyue Zhang

SU-OP.1P.10

17:30-17:50

Full-Wave Vector Finite Element for Integrated Circuit Simulation with Surface-Type Lumped Elements

Zhiheng Li, Shunchuan Yang

SU-OP.1P.11

17:50-18:10

Multiple Object Electromagnetic Scattering Prediction Through A Physics-Informed Graph Neural Network

Zhe Jiang, Shunchuan Yang, Wei-jie Wang

Friday, April 10

14:00-18:10

SU-OP.2P

Prague Hall, 3rd Floor

Session: Space-Time Coding Metamaterials and Their Applications

Session Chairs: Xiaoyi Wang, Tongji University; Guo-Min Yang, Fudan University

Session: RF Acoustic Devices for 5G/6G Applications

Session Chairs: Guomin Yang, Fudan University; Zonglin Wu, Fudan University; Xin Ou, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences

SU-OP.2P.1

14:00-14:20

Scattering Model Inspired HRRP Spoofing with Time-Frequency Domain Analysis

Yiwei Wang, Yonggeng Zhu, Mengmeng Li, Dazhi Ding

SU-OP.2P.2

14:20-14:40

Near-Field Target Geometric Parameter Recognition Based on Electromagnetically Coupled Microstrip Dipole Antennas

Xinshun Li, Xiao Yu Li, Xiaojun Chu, Xiaoyi Wang, Mei Song Tong

SU-OP.2P.3

14:40-15:00

Joint Estimation of DOA and Polarization Information Based on a Miniaturized $\pm 45^\circ$ Dual-Linear Polarized Spherical Conformal Array

Haojie Zhang, Xiao Yu Li, Xiaojun Chu, Xiaoyi Wang

SU-OP.2P.4

15:00-15:20

Wideband SAW Filter Using Simultaneous Excitation SH-LL Modes for 5G Applications

Hangyu Qian, Zonglin Wu, Shijia Li, Yang Feng, Feihong Bao, Guo-Min Yang

SU-OP.2P.5

15:20-15:40

Narrow Dummy Fingers for Transverse Energy Leakage Suppression in TF-SAW Resonators
Zonglin Wu

Tea Break

15:40-16:10

Session: AI-Driven Innovations in Electromagnetic Materials, Devices, and Computational Methods

Session Chairs: Menglin Zhai, Donghua University; Wu Yang, Southeast University

SU-OP.2P.6

16:10-16:30

Efficient Analysis of Electromagnetic Scattering in Large-Scale Finite Periodic Structures Using Physics-informed Entire-Domain Network
Tian Liu, Fei Guo, Bingbing Song, Wenzhe Song, Zehui Chen, Wu Yang, Weibing Lu

SU-OP.2P.7

16:30-16:50

Low-Complexity Column Overlay:1-Bit RIS Pre-coding Beam Scanning Optimization
Tongxuan Wu, Menglin Zhai, Rui Pei, Jiatong Wu, WeiBing Lu

SU-OP.2P.8

16:50-17:10

Build with Your Diode: Inverse Design of Pre-Defined Multi-Layer Reconfigurable Transmissive Metasurfaces
Jiatong Wu, Rui Pei, Zhao Wang, Haochuan Jiang, Jingchen Wang, Mark Leach, Menglin Zhai

SU-OP.2P.9

17:10-17:30

Moving Sparse Uniform Frequency Diverse Array for Three-Dimensional Parameter Estimation
Pengfei Liu, Long Sui

SU-OP.2P.10

17:30-17:50

Sparse Nested Arrays for Localization of Mixed Near-Field and Far-Field Sources
Junkai Li, Long Sui, Yunlong Yang

SU-OP.2P.11

17:50-18:10

Physics-Constrained Generation of Random Deformations for Textiles
Xiaojuan Li, Menglin Zhai, Wei-Bing Lu

Sunday, April 12

14:00-16:50

SU-OP.3P

Leeds Hall, 3rd Floor

Session: Analysis of Electromagnetic Properties of Moving Targets

Session Chairs: Gaobiao Xiao, Shanghai Jiao Tong University; Lei Kuang, East China Normal University

SU-OP.3P.1**14:00-14:20**

A Parallel Algorithm for Electromagnetic Analysis of Multiple Complex Targets Using the Equivalence Principle
Junjie Xi

SU-OP.3P.2**14:20-14:40**

Numerical Analysis of Electromagnetic Scattering of Uniformly Moving PEC Objects
Guomin Liu

SU-OP.3P.3**14:40-15:00**

Transient Analysis of the Radiation Characteristics of a 4D Antenna
Junwei Zhu

SU-OP.3P.4**15:00-15:20**

Optimizing the Discrete Array Factor Based on Continuous Array Factor
Ruilin Wang, Junwei Zhu, Gaobiao Xiao

SU-OP.3P.5**15:20-15:40**

Rotor-Blade Micro-Doppler Modeling Based on a High-Order FDTD Scheme with a Relaxed Stability Constraint
Xiaona Zhao, Jing Niu

Tea Break**15:40-16:10****SU-OP.3P.6****16:10-16:30**

A Reduced-Order Impedance Model of the Quasi-Resonant Harmonic Wave-Suppression and Current Monitoring Strategy for the PMSM systems
Jindong Yang, Qiang Zuo, Zhenglin Li, Yuan Yao, Wei Shao, Ting Ting Gu

SU-OP.3P.7**16:30-16:50**

Solving the Fields of a Moving Hertzian Dipole with Frame-Hopping Method
Gaobiao Xiao

Sunday, April 12**14:00-16:50****SU-OP.4P****Sydney Hall, 3rd Floor**

Session: Advanced Numerical Strategies for Multiscale Electromagnetics and Multiphysics Coupling & Oral Session

Session Chairs: Wei E. I. Sha, Zhejiang University; Ming-Lin Yang, Beijing Institute of Technology

SU-OP.4P.1 **14:00-14:20**

An SBR Acceleration Method Based on Ray Culling via Point-Projection Aperture Mapping

Liang Xue, Yitong Zhang, Bo Sun, Xingyue Guo, Yuan'an Liu

SU-OP.4P.2 **14:20-14:40**

Steady-State Thermal Rectification and Active Control via Thermoelectric Coupling

Kaile Sun

SU-OP.4P.3 **14:40-15:00**

Coupled Electromagnetic-Thermal-Mechanical Modeling of Wireless Passive Sensors

Yijia Cheng

SU-OP.4P.4 **15:00-15:20**

An Efficient Higher-Order Discontinuous Galerkin Formulation for Scattering by Complex Non-Penetrable Targets

Zi-Chen Li, Guo-Zheng Zhou, Ming-Lin Yang, Xin-Qing Sheng, Beijing Institute of Technology

SU-OP.4P.5 **15:20-15:40**

Adaptive h-Refinement method of Integral Equation Method for Multiscale Problems

Yun-Han Chen, Zi-Chen Li, Qi-Ya Hu, Xin-Qing Sheng

Tea Break **15:40-16:10**

SU-OP.4P.6 **16:10-16:30**

An Efficient Simulation Method for Microwave Heating of Thin-Walled Containers Based on Transformation Optics

Fengming Yang

SU-OP.4P.7 **16:30-16:50**

Ultrasonic Ride Verification Using Consumer Mobile devices

Venkata Satya Yerrinaidu Appana

Sunday, April 12

14:00-17:50

SU-OP.5P

Marseilles Hall, 3rd Floor

Session: Oral Session

Session Chairs: Meisong Tong

SU-OP.4P.1 **14:00-14:20**

A Dual-Band 28/38-GHz mmWave Antenna for 5G Wireless Communications

Akhtar Khan, Shakeel Ahmad, Mei Song Tong

SU-OP.4P.2 **14:20-14:40**

Wideband Sub-6 GHz MIMO Antenna With Isolation Enhancement Using an Epsilon-Negative Metamaterial Fence Wall

Shakeel Ahmad, Akhtar Khan, Mei Song Tong

SU-OP.4P.3 **14:40-15:00**

A Novel Design Method for Microstrip Filters Based on Genetic Algorithm

Yue Lu Zhang, Mei Song Tong

SU-OP.4P.4 **15:00-15:20**

A Versatile Single-Layered FSS for UWB Interference Suppression in Communication Systems

Akhtar Khan, Shakeel Ahmad, Mei Song Tong

SU-OP.4P.5 **15:20-15:40**

Cluster-Aware Multicast Precoding in Cell-Free Massive MIMO for Scalable 6G Networks

Muhammad Arslan, Ajay K. Poddar, Ulrich L. Rohde, Mei Song Tong

Tea Break **15:40-16:10**

SU-OP.4P.6 **16:10-16:30**

Low-Cost FR-4 Compact Ground-Backed Dual-Band Metamaterial Absorber for 5 and 9 GHz

Shakeel Ahmad, Akhtar Khan, Mei Song Tong

SU-OP.4P.7 **16:30-16:50**

Polarization Insensitive Dual-Layer FSS with Two Transmission Nulls for mmWave Filtering Applications

Akhtar Khan, Shakeel Ahmad, Mei Song Tong

SU-OP.4P.8 **16:50-17:10**

Solar Assisted Hybrid air conditioning system

Felista Komu

SU-OP.4P.9 **17:10-17:30**

*Towards Scalable and Efficient Multicast in Cell-Free Massive MIMO: A
Unified Framework for Precoding Strategy Analysis*
Muhammad Arslan, Ajay K. Poddar, Ulrich L. Rohde, Mei Song Tong

INTERACTIVE FORUMS

Friday, April 10, 16:00-18:00

Saturday, April 11, 10:00-12:00

Saturday, April 11, 16:00-18:00

Sunday, April 12, 10:00-12:00

Sunday, April 12, 16:00-18:00

Friday, April 10

16:00-18:00

FR-IF.1P

Lobby at 3rd Floor

FR-IF.1P.1

Pinpoint Divide-and-Conquer Physics-Informed Neural Networks for Predicting Thermo-Mechanical Multiphysical Problems

Jiahao Quan

FR-IF.1P.2

A TSETI Method for Transient Thermal Simulation

Jiixin Han

FR-IF.1P.3

Electromagnetic Compatibility Conducted Susceptibility Test and Analysis for LANs

Nan Wei, Lilin Li, Tong Wang, Beihang University

FR-IF.1P.4

U-Net with Multi-Scale Skip Connections for Dynamic Motion Deblurring

Linjin Li, Xingang Ren, Zhixiang Huang, Naixing Feng

FR-IF.1P.5

Alternative Global-to-Local Implementation based on Physics-Informed Neural Operator for Multiphysical Predictions in Electronic Device

Ziyu Wu, Zhixiang Huang

FR-IF.1P.6

Convolutional Encoder-Decoder-Based Electric Field Intensity Solver for TGV Chip Arrays

Yilai Fan

FR-IF.1P.7

Preliminary Modeling of LED-Based Irradiation in a Portable Disinfection Chamber

Rita Veilande, University of Latvia, FST IAPS; Gita Revalde, University of Latvia and Riga Technical University

FR-IF.1P.8

Sheet Impedance Boundary Conditions in Finite Element Method and Equivalent Analysis of Periodic Structures

Yuxin Lin

FR-IF.1P.9

The theory research of unified electromagnetic field based on comprehensive information theory

Haijun YE, Zijie WANG

FR-IF.1P.10

A High-Efficiency ITO-Based Optically Transparent Butterfly-Shaped Hollow-Out Microstrip Antenna

Sicong Wang, Jinhong Chen, Xiaofei Xu, Shanghai University

FR-IF.1P.11

Millimeter-wave Radar-based Heartbeat Monitoring based on Max Variance Searching in Distance Dimension

Yutong Zhao, Jiayuan Kong, Chenchang Zeng, Yuhui He, Shilong Pan

FR-IF.1P.12

Multi-beam phase-compensated folded transmission array antenna based on phased array feed

Zechen Li, Youqian Su, Yahong Li, Jingnan Guo, Zibin Weng

FR-IF.1P.13

Adaptive Window Weighting for Interference Suppression in Near-Field Sparse Array Millimeter-Wave Imaging

Yaqi Xiong, Qianfa Tang, Yuhui He, Fangzheng Zhang, Shilong Pan

FR-IF.1P.14

The Electromagnetic Scattering Impulse Response of a target Constructed by the Time-Domain Shooting and Bouncing Ray

Yuan Huang, School of Physics and Electronic Information, Guangxi Minzu University, NanNing, China; Juexin Zhang, Aerospace System Engineering Shanghai, ShangHai, China

FR-IF.1P.15

Compact Microstrip Antenna Designed by Cutting J-Shaped Slots on the Patch

Jinhong Chen, Wenqi Chen, Sicong Wang, Xiaofei Xu

FR-IF.1P.15

A High-Q Microwave Sensor Based on Dual-Ring Resonators for Textile Material Detection

Lu Yi Liu, Mei Song Tong

Saturday, April 11

10:00-12:00

SA-IF.1A

Lobby at 3rd Floor

SA-IF.1A.1

An Interpolating Frequency Sweeping Technique Based on Vector Fitting for Finite Element Method

Haonan Cai

SA-IF.1A.2

A Memory Reduction Technique for S-Parameter Extraction of Microwave Passive Components

Guanyu Lai

SA-IF.1A.3

Physics-Embedded PointNet for Radiation-Pattern Recovery of Faulty Phased Array Antennas

Gao-zhan Peng, Hai-tao Chen, Jie Yu

SA-IF.1A.4

Design of A Wideband Ridged Waveguide-Based Slot Array Antenna Element for 1-D Beam Scanning

Yan Qu, Honghui Jiang, Mengyang Huangfu, Qi Zheng

SA-IF.1A.5

Research on Intensity-Superposition Infrared Reflectometry for SiC Epitaxial-Layer Thickness Metrology

Zheng Zhou, Ziyang Li, Yuxuan Wang, Shitao Ding, Yuhao Zhu, Ye Liang

SA-IF.1A.6

Topology-Preserving Multi-Stage Framework for Dynamic Brain Networks and Functional States in Depression

Jiawei Bi, Yaqi Wang

SA-IF.1A.7

Research on the RCS Reconstruction and Extrapolation Based on Scattering Centers

Yixin Guo

SA-IF.1A.8

A Continuously Tunable Reflective Metasurface for Dynamic Generation of Vortex Beams

Beile Gao

SA-IF.1A.9

3D MOR Inversion of ATEM Data

Yihang Peng, Huake Cao, Jianmei Zhou

SA-IF.1A.10

Accurate Automated GPR Target Detection via SFCW Response Synthesis and DBSCAN

Xiaomeng Zhao, Yaqi Wang, College of Electronic and Information Engineering, Tongji University

SA-IF.1A.11

A Physics-Guided Complex-Valued Network for Quantitative Electromagnetic Inverse Scattering

Xiaomeng Zhao, Yaqi Wang, College of Electronic and Information Engineering, Tongji University

SA-IF.1A.12

A Fourier Neural Operator-Based Surrogate Model for Efficient Magnetotelluric Forward Modeling

Xiao Feng

SA-IF.1A.13

Study on Micro-Motion Separation Based on Helicopter Rotor

Yan Ran

SA-IF.1A.14

Measurement Method of EIRP Value for Active Phased Array Antennas Based on Planar Near-Field

Wenqian Tang, Bowei Ruan, Huihua Wang, Shanghai Aerospace Electronic Technology Institute

SA-IF.1A.15

Physics-Aware Cascaded Detection Framework for SAR Aircraft Detection

Yang Kang, Chao Li, National Key Laboratory of Scattering and Radiation, Beijing 100854, China

SA-IF.1A.16

Coded Sensing Decoupled Displacement Sensor Based on Four-port Microstrip Resonator

Yaming Xie, Yihao Chen, Tongji University

Saturday, April 11

16:00-18:00

SA-IF.1P

Lobby at 3rd Floor

SA-IF.1P.1

Single-Cut Near-Field Antenna Measurement Method Based on Multipole Expansion with Error Compensation

Zhang Jian, Yi-Xuan Zhang, Zi-Bin Weng, Yong-Chang Jiao

SA-IF.1P.2

Research on 3-D magnetotelluric algebraic multi-resolution grid forward modeling based on adaptive grid

Siyang Dai

SA-IF.1P.3

2D Magnetotelluric Inversion Based on Automatic Differentiation

Chao Li, Rongwen Guo

SA-IF.1P.4

A Deep Learning-Assisted Bat Algorithm for 2-D Multi-Target Inverse Scattering

Ling Yao Chen, Chun Xia Yang, Mei Song Tong

SA-IF.1P.5

Simulating hypervelocity impacts due to space debris on satellites

Wang Chuci

SA-IF.1P.6

3-D time-domain airborne EM inversion based on unstructured finite-element method

Shiyuan Guo, Jilin University

SA-IF.1P.7

Mesh-Derived Scattering Center Modeling for Electromagnetic Analysis of Targets with Dynamic Components

Jiuxiang Liu, Kunyi Guo, Xinqing Sheng

SA-IF.1P.8

Design of an SIW-based Frequency-scanning Millimeter-wave MIMO Antenna for 5G Applications

Syed Shahan Jehangir, Abdulrahman S. M. Alqadami, Muhammad Husnain

SA-IF.1P.9

A Lightweight Agentic Framework for Self-Healing Computational Electromagnetics Workflows

Xi Chu, Yupeng Hou

SA-IF.1P.10

A Trustworthy Adaptive h-Refinement Method for High-Resolution Scattering Centers Imaging

Ya Nan Lu, Yu Mao Wu, Jun Hu

SA-IF.1P.11

Development of Higher-Order Convolution PML (CPML) for the Conservative High-Order Modified FDTD (2,4) (CM24) Method

Jianxia Lu, Shaoqing Duan

SA-IF.1P.12

Low-Frequency Magnetolectric Antennas Based on Magnetolectric Composites

Leye Tian

SA-IF.1P.13

Automating PCB Component Placement via Natural Language Descriptions

Michelle Keah Lubale

SA-IF.1P.14

A Rapid Estimation of the Electromagnetic Scattering Characteristics of the Object Coated with Absorbing Materials

Xian Fengyi

SA-IF.1P.15

Solving Electromagnetic Scattering Problem of Multi Targets by MoM and Vector Spherical Wave Transition Matrix

HE XINYU

SA-IF.1P.16

Physics-Informed Mixture Density Network Architecture for Inverse Design of Substrate Integrated Coaxial Line

Xiao-long Shi, Bi-Yi Wu, Xin-Qing Sheng

Sunday, April 12

10:00-12:00

SU-IF.1A

Lobby at 3rd Floor

SU-IF.1A.1

A Conservative High-Order FDTD (2,4) Scheme for Reverse-Time Migration in Subsurface Imaging

Jianxia Lu, Tingzhu Sun, Shaoqing Duan

SU-IF.1A.2

Polarimetric Feature – Based Weak Sea-Surface Target Detection with Machine Learning

Sen Liu, Yangbo Zhou, Yunchuan Wang, Chengtao Zhao, Liang Zhang, Xinyue Lou, Xiaomin Pan

SU-IF.1A.3

An L1-FDTD Method for Electromagnetic Simulation of Cole-Cole Dispersive Media

Yiru Liang, Xinbo He, Bing Wei, Haonan Feng, Guilin Hou

SU-IF.1A.4

Research on FDTD Subgrid Techniques Based on Tree Data Structures

Linbo Yan, Xinbo He, Bing Wei, Ye Wang, Haonan Feng

SU-IF.1A.5

Effective 3D Reconstruction for Electromagnetic Scattering Modeling

Tian Jian Peng

SU-IF.1A.6

Privacy-Aware Electricity Energy Management via Adversarial Safe Reinforcement Learning

Jian Ruan, Qiang Li

SU-IF.1A.7

Coarse-to-Fine Reconstruction for Tunnel Propagation via Axial Recurrent Upsampling

Jiahao Li, Jingxin Xue, Yongyuan Hu, Yuqi Ouyang, Hao Qin, Xinyue Zhang, Xingqi Zhang

SU-IF.1A.8

A Dielectric-Polarizer-Based Shared-Aperture CP Array for Satellite Communications

Yanfeng Meng, Guilin Hou, Guanghui Xu, Zhixiang Huang

SU-IF.1A.9

A Lightweight Agentic Framework for Self-Healing Computational Electromagnetics Simulations

Xi Chu, Trine University; Yupeng Hou

SU-IF.1A.10

Dispersion Analysis and Isotropic Sampling Strategies for Multiple FDTD-Based Algorithms

Yue Zhu, Miao He, Ju Wang, Yifan Lyu, Jirui Zhang

SU-IF.1A.11

Bistatic Scattering Center Extraction Based on Surface Induced Current

ZiliangZhao, Anqi Wang, Lixia Yang, Zhixiang Huang, Xingang Ren

SU-IF.1A.12

Solving Electromagnetic Scattering From 3-D Scatterers With Incomplete Profiles By Deep Learning

Ji-Yuan Wang, Zhi-Yuan Chen, Liang Zhang, Xin-Yue Lou, Yun-Chuan Wang, Chen-Tao Zhao, Xiao-Min Pan

SU-IF.1A.13

Physics-Driven Deep Learning for Efficient RCS Prediction with Physical Optics Prior

Yuxin Rong

SU-IF.1A.14

Dual-Band High-Gain Common-Caliber Subwavelength Cavity Antenna with Planar Metamaterials

Guiqiang Du, Junyang Li, Guang Lu, Shandong University; Wei Wang, Harbin Institute of Technology; Qipeng Wang, Peng Liu, AVIC Research Institute for Special Structures of Aeronautical Composites

SU-IF.1A.15

A Transition-Ratio-Adjustable Structured Mesh Generation Method for FDTD Simulation

Wanzhen Li, Chunhui Mou, Kaihang Fan

SU-IF.1A.16

Automated Electromagnetic Filter Design Optimization Using Soft Actor-Critic Reinforcement Learning and Neural Network Simulators

Zhuoxi Chen

Sunday, April 12

16:00-18:00

SU-IF.1P

Lobby at 3rd Floor

SU-IF.1P.1

An SRR-based microwave sensor for low-permittivity liquid characterization enhanced by an interdigital capacitor and a defected ground structure

Yucheng Feng, Zhengjiang Zhao

SU-IF.1P.2

A Compact UHF RFID Tag Antenna for Metallic Surfaces

Guobao Si, Jiachen Li

SU-IF.1P.3

An Enhanced Vector Fitting Method for Accurate Electromagnetic Parameters Modeling

Jiaojiao Li, Jing Nie

SU-IF.1P.4

Directional Encryption Based on Space-Time-Modulated Metasurface

Xiaojie Lu, Xiaoyu Li, Xiaoyi Wang, Mei Song Tong

SU-IF.1P.5

A Hybrid Aperture-Phase Synthesis Strategy for Discrete Multi-Beam Metasurfaces

Xiaojun Chu, Xiaoyi Wang

SU-IF.1P.6

A Multi-Scale Physics Feature Characterization Framework for Adaptive FDTD Meshing

Qianxiang Gan

SU-IF.1P.7

Design of a Broadband Magnetolectric Antenna Array Based on the Thin-Film Dual-Drive Structure

Shuai Peng, Xiaoyi Wang, Mei Song Tong

SU-IF.1P.8

Time-Modulated Frequency-Converting Amplifying Antenna

Bin Fang, Xiaoyi Wang, Xiaojie Lu, Mei Song Tong

SU-IF.1P.9

Hybrid Time-Frequency Feature Extraction for Radar Modulation Classification Using Dual-Branch ResNet

Junhao Liang, Xinyu Wang, Xuelong Xu, Xingang Ren, Xianliang Wu

SU-IF.1P.10

High-Precision Contactless Vital Signs Monitoring via Sub-bin Range Estimation with FMCW Radar

Ming Zhang, Deshun Huang, Hui Yan, Xianliang

SU-IF.1P.11

Design and Investigation of a 77 GHz Millimeter-Wave Array Antenna

Wentao Deng, Xianliang Wu

SU-IF.1P.12

A Passive Vector Modulator for 28-GHz Applications

Aliang Sun, Xianliang Wu

SU-IF.1P.13

Study on CBGA Assembly Reliability Under Temperature Cycling Loads

Zhaozhao Liu, Anhui University

SU-IF.1P.14

A Dual-Polarized PIFA Array With CM/DM Excitations for Low-Coupling Airborne Applications

Ke-Xin Zhai, Yuan Zeng, Xin-Qing Sheng

SU-IF.1P.15

Azimuthal Super-Resolution Reconstruction for Forward-Looking Radar Based on FISTA

Zian Jiao

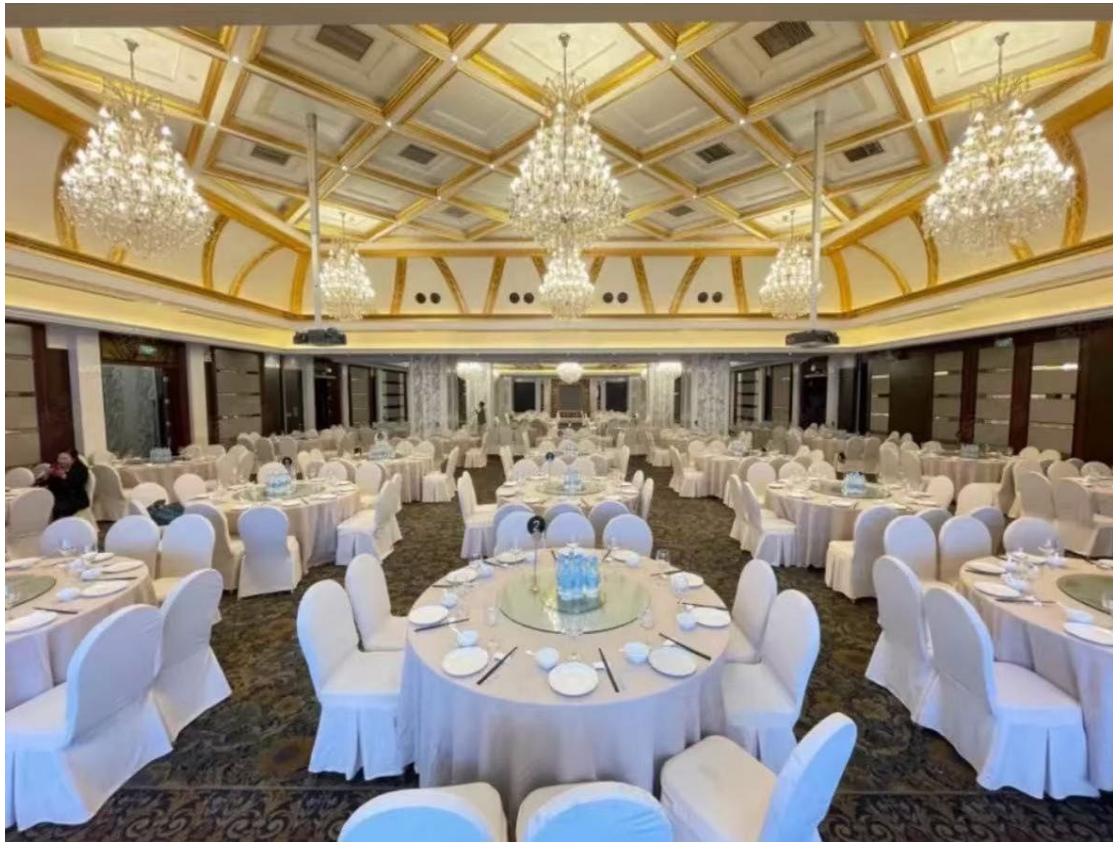
SOCIAL PROGRAM

Friday, April 10, 19:00-21:00, Banquet AB, 5th Floor

Welcome Reception

Saturday, April 11, 19:00-21:00, Celebration Banquet and Best Paper Award Ceremony, Banquet AB, 5th Floor

The celebration banquet with a best paper award ceremony is planned for ICCEM participants and their guests. Banquet tickets are limited in number and will be provided free of charge to attendees who register online. (Attendees who register on-site will not receive banquet tickets.).



ACCOMMODATIONS

We highly recommend to book Crowne Plaza Shanghai Nanjing Road which is also the conference venue. As a participating author, you can get a discount price or discount when you book the hotel. Please contact the hotel manager, Mr. Chloe wang, at Chloe.wang@cpnanxinya.com for your reservation.

There are other hotels close to the conference venue:

Atour Hotel, Nanjing Road Pedestrian Street, Shanghai People's Square

Address: No. 586 Ningbo Road, Huangpu District, Shanghai

Tel: +86-21-6372-6677

Hotel Park Hotel Shanghai

Address: No. 170 Nanjing Rd (W), Huangpu, Shanghai, China, 200003

Tel: +86-21-6327-5225

Website: <http://guojifandian.com.cn/>

JJ Inns-Nanjing East Road Pedestrian Street

Address: No. 680 Nanjinglu St, Huangpu, Shanghai, China, 200001

Tel: +86-21-6322-3223

Website: <https://www.jinjianghotels.com.cn/>

ACKNOWLEDGEMENT

We would like to highly appreciate the following session organizers and paper reviewers for their significant contributions to the conference.

Session Organizers:

Amir Boag, Tel Aviv University
Anxue Zhang, Xi'an Jiaotong University
Anyong Qing, School of Electronic and Information Engineering, Foshan University
Bing Wei, Xidian University
Chao-Fu Wang, Nanjing University of Science and Technology
Decheng Hong, Jilin University
Dikun Yang, Southern University of Science and Technology
Feng Xu, Fudan University
Francesca Vipiana, Politecnico di Torino
Gang Wang, Anhui University
Gaobiao Xiao, Shanghai Jiao Tong University
Guang Shang Cheng, Anhui University
Guo-Min Yang, Fudan University
Guomin Yang, Fudan University
Han Ru Shao, Yangze Delta Institute (Huzhou), University of Electronic Science and Technology of China
Hao Qin, Sichuan University
Hongxia YE, Fudan University
Huan Huan Zhang, Xidian University
Juan Chen, School of Information and Communications Engineering, Xi'an Jiaotong University
Jun Hu, University of Electronic Science and Technology of China
Jun Wei Wu, Southeast University
Kai-Kun Niu, Anhui Univeisty
Lei Guo, Dalian University of Technology
Lei Kuang, East China Normal University
Linghui Kong, Qianyuan Laboratory
Lixia Yang, Anhui University
Meng Kong, Hefei Normal University
Meng Meng Li, Nanjing University of Science of Technology
Menglin Zhai, Donghua Univerisity
Ming-Da Zhu, Xidian University
Ming-Lin Yang, Beijing Institute of Technology
Naixing Feng, Anhui University
Pengfei Gu, Nanjing University of Science and Technology
PING LI, University of Electronic Science and Technology of China
Qi Huang, National Key Laboratory of Scattering and Radiation
Qiang Ren, Beihang University
Qingtao Sun, Eastern Institute of Technology

Shilei Fu, Fudan University
Shunchuan Yang, Beihang University
Sijia Li, Air Force Engineering University
Siyuan He, Wuhan University
Ting Wan, Nanjing University of Posts and Telecommunications
Vladimir Okhmatovski, University of Manitoba
Wei E. I. Sha, Zhejiang University
Wen-Wen Yang, Nantong University
Wu Yang, Southeast University
Xia Wu, Tongji University
Xiaomin Pan, Beijing Institute of Technology
Xiaoyi Wang, Tongji University
Xin Ou, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
Xingang Ren, Anhui University
Xingqi Zhang, University of Alberta
Xinyue Zhang, University College Dublin
Xiuzhu Ye, Beijing Institute of Technology
Yang Bao, Nanjing University of Posts and Telecommunications
Yi-Xuan Zhang, Xidian University
Yiqian Mao, Southeast University
Yizhu Shen, Southeast University
Yongtao Jia, Xidian University
Yumao Wu, Fudan University
Yunjing Zhang, Soochow University
Yunyun Hu, Tongji University
Yuxian Zhang, Anhui University
Zhangjie Luo, Southeast University
Zhidan Bian, Wuhan University
Zhijiao Chen, Beijing University of Posts and Telecommunications
Zi He, Nanjing University of Science and Technology
Zonglin Wu, Fudan University

Reviewers:

<i>Alexander Paulus</i>	<i>Fengan Li</i>	<i>Javier Leonardo Araque</i>
<i>Amir Boag</i>	<i>Francesca Vipiana</i>	<i>Quijano</i>
<i>Baris Gurcan Hakanoglu</i>	<i>gaobiao xiao</i>	<i>Jiahui Wang</i>
<i>Bernd Hofmann</i>	<i>Guangshang Cheng</i>	<i>Jian Wang</i>
<i>Bing Wei</i>	<i>Guomin Liu</i>	<i>Jiang Ming</i>
<i>Bowen Wang</i>	<i>Hakan Bagci</i>	<i>Jianwei You</i>
<i>Chao Li</i>	<i>Hao Cheng</i>	<i>Jiming Song</i>
<i>Chao Wang</i>	<i>Hao Qin</i>	<i>Julio Cesar Garcia-</i>
<i>Decheng Hong</i>	<i>Haozheng Lu</i>	<i>Alvarez</i>
<i>Dikun Yang</i>	<i>He-Xiu Xu</i>	<i>jun</i>
<i>Fan Yang</i>	<i>Hongxia Ye</i>	<i>Junjie Yuan</i>
<i>Feng Xu</i>	<i>Hongyun Deng</i>	<i>Junwei Zhu</i>

<i>Kai-Kun Niu</i>	<i>Puyan Mojabi</i>	<i>Xinlei Chen</i>
<i>Kuisong Zheng</i>	<i>Qiang Li</i>	<i>Xiu Yin Zhang</i>
<i>Kuiwen Xu</i>	<i>Qing Liu</i>	<i>Xiuzhu Ye</i>
<i>Lei Guo</i>	<i>Qingtao Sun</i>	<i>Xudong Chen</i>
<i>Lei Kuang</i>	<i>Quanfeng Wang</i>	<i>Yaming Xie</i>
<i>Li Tian</i>	<i>Quanquan Wang</i>	<i>Yan Zhang</i>
<i>Li Xing</i>	<i>Rui Chen</i>	<i>Yang Bao</i>
<i>Li Zhang</i>	<i>Rui Liu</i>	<i>Yaniv Brick</i>
<i>Li-Xin Guo</i>	<i>Ruining Tong</i>	<i>Yarden Mazor</i>
<i>Lixia Yang</i>	<i>Rula Alrawashdeh</i>	<i>Ye Liang</i>
<i>Luyi Liu</i>	<i>Sambhudutta Nanda</i>	<i>Yihao Chen</i>
<i>Maokun Li</i>	<i>Sammy Chan</i>	<i>Ying Li</i>
<i>Matthias Saurer</i>	<i>Shilei Fu</i>	<i>Yiqian Mao</i>
<i>Menglin Zhai</i>	<i>Shunchuan Yang</i>	<i>Yongtao Jia</i>
<i>Mengmeng Li</i>	<i>Simon Adrian</i>	<i>Yu Zhao</i>
<i>Mengxia Hu</i>	<i>Siyuan He</i>	<i>Yukun Liu</i>
<i>Michael Kleinschmidt</i>	<i>Timor Melamed</i>	<i>Yumao Wu</i>
<i>Ming Jiang</i>	<i>Ting Ting Gu</i>	<i>Yunjiao Tang</i>
<i>Ming-Da Zhu</i>	<i>Ting Wan</i>	<i>Yunyun Hu</i>
<i>Ming-Lin Yang</i>	<i>Vladimir Okhmatovski</i>	<i>Yuxian Zhang</i>
<i>Mingda Zhu</i>	<i>Wei E. I. Sha</i>	<i>Yuyang Hu</i>
<i>Minglin Yang</i>	<i>Weiren Zhu</i>	<i>Zhenhong Fan</i>
<i>Mohsen Guizani</i>	<i>Wensheng Zhao</i>	<i>Zhidan Bian</i>
<i>Naixing Feng</i>	<i>Xia Wu</i>	<i>Zhijiao Chen</i>
<i>Naixing Feng</i>	<i>Xiaomin Pan</i>	<i>Ziwei Li</i>
<i>Pengfei Gu</i>	<i>Xiaoran Yu</i>	
<i>Ping Li</i>	<i>Xiaosong Liu</i>	

AUTHOR INDEX

Abdul Jabbar
Abdulrahman S. M. Alqadami
Ahmed Altunaiji
Ajay K. Poddar
Akhtar Khan
Alexey Boyko
Aliang Sun
Amir Boag
Anqi Wang
Ao Di Yang
Bappaditya Roy
Baris Gurcan Hakanoglu
Beile Gao
Beirong Liu
Bi-Yi Wu
Bian Wu
Bin Fang
Bing Wei
Bingbing Song
Biswajeet Mukherjee
Bo O. Zhu
Bo Sun
Bowe Ruan
Bowen Wang
Boxuan Shi
Cai Wenxin
Cai Yu Qian
Changzhan Gu
Chao Li
Chao Liu
Chao Zhang
Chao-Fu Wang
Chen Wang
Chen-Tao Zhao
Chenchang Zeng
Chenfeng Wang
Cheng Qiang
Chengcheng Zhang
Chengtao Zhao
Chengyu Zhang
Chi Zhang
Chris Nguyen
Christopher Phillips
Chun Xia Yang
Chun-Xing He
Chunhui Mou
Cong Hua
Da Li
Daniel DeZutter
Darko Ninković
Dawei Li
Dazhi Ding
Dazhi.Ding
Dehong Tian
Dejiang Shang
Dengkang Wang
Deshun Huang
Dimin Sun
Dong He
Dong Zhu
Dongxiang Zhang
Dragan Olćan
Dries Vande Ginste
Er-Ping Li
Esambati Muni Venkata Tharun
Fan Yang
Fan Yu
Fan-Shu Wei
Fang Ming
Fang-Fang Wang
Fangzheng Zhang
Fei Fei Yuan
Fei Guo
Feihong Bao
Felista Komu
Feng Feng
Feng Han Lin
Fengming Yang
Francesca Vipiana
Gang Wang
Gang Zhuang
Gao-zhan Peng
Gaobiao Xiao
Gengbo Wu

Gengyao Li
Gita Revalde
Gokhan Apaydin
Gongyu Wang
Gregory Slepyan
Gu Liu
Guang Hao Liu
Guang Lu
Guanghui Xu
Guangshang Cheng
Guanyu Lai
Guido Lombardi
Guilin Hou
Guiqiang Du
Guo-Min Yang
Guo-Zheng Zhou
Guobao Si
Guoda Xie
Guomin Liu
Guoqing Zhao
Guowu Ma
Hai-tao Chen
Haifeng Fang
Haijun YE
Haini Qu
Haitao Chen
Haixin Zou
Han Kun Ma
Hang Si
Hang Zhao
Hangyu Qian
Hanru Shao
Hao Chen
hao feng
Hao Qin
Hao Wen
Hao Xie
Hao Xu
Haochuan Jiang
HaoHui Ge
Haojie Cao
Haonan Cai
Haonan Feng
Haoran Sun

Haorong Li
Helia Akbari
Heng Cao
HE XINYU
Hong Bin Zhang
Hongcheng. Yin
Honghui Jiang
HongXia Ye
Hongxuan Mu
Hu-Jian Zou
Huacheng Zhu
Huaishi Liu
Huake Cao
Huan Huan Zhang
Huang Xin
Hui Lu
Hui Luan
Hui Tang
Hui Wang
Hui Xu
Hui Yan
Huihua Wang
Huimin Kang
Ilay Levie
Javier Araque
Ji Yuanchen
Ji-Yuan Wang
Jia Nan Zhang
Jiachen Li
Jiahao Gong
Jiahao Li
Jiahao Quan
Jiahong XING
Jiahui Wang
Jiamin Shi
Jian Ruan
Jian Wang
Jian Wei You
Jian Zhu
Jian-Xin Chen
Jianfeng Liu
Jianlin Su
Jianmei Zhou
Jianwei You

Jianxia Lu
Jianying Zhao
Jiaojiao Li
Jiaqi Ding
Jiaqi Han
Jiatong Wu
Jiawei Bi
Jiawei Chen
Jiaxin Han
Jiayi Shi
Jiayuan Kong
Jiayue Yang
Jie Liu
Jie Wang
Jie Yu
Jiexin Hu
Jihong Gu
Jimin Wang
Jindong Yang
Jinfeng Li
Jing Niu
Jingchen Wang
Jingnan Guo
Jingxin Xue
Jingxing Guo
Jingzhi Zhang
Jinhong Chen
Jinyan Ma
Jirui Zhang
Jiuxiang Liu
Ju Wang
Juan Chen
Juexin Zhang
Jun Hu
Jun Wei Wu
Jun-Hui Ou
Junfei Chen
Junfei Ji
Junhao Liang
Junjia Wang
Junjie Xi
Junjie Yan
Junjie Zhang
Junkai Li

Junke Wang
Junlong Liu
Junwei Zhu
Junyang Li
Juzheng Han
K-L WAN
Kaihang Fan
Kaikun Niu
Kaile Sun
Ke Wu
Ke Yin
Ke-Xin Zhai
Keqin Li
Kuandong Gao
Kuisong Zheng
Kunyi Guo
Kunyu Wu
Langran Deng
Le Zhang
Lei Guo
Levent Sevgi
Leye Tian
Li Luo
Li Tingyu
Lianfeng Ma
Liang Li
Liang Xue
Liang Zhang
Liangjun Yan
Lijun Yi
Lilin Li
Lin Lei
Linbo Yan
Ling Hui Kong
Ling Yao Chen
Ling Zhao
Ling-Ling Yang
Linghao Xiong
Linjin Li
Linlin Hu
Linqian Li
Linqing Li
Liqiu Hu
Lixia Yang

Lixiao Wang
Lixing Chen
Long Li
Long Sui
Longjun Zhou
Lorenzo Codecasa
Lu Tan
Lu Yingjuan
Luca Di Rienzo
Ludger Klinkenbusch
Luqi Zhang
M.Mahesh
M.Sai Debasisa Patra
Maddirala Ajay Kumar
Maokun Li
Mark Leach
Martijn Huynen
Masood Ur Rehman
Mehmet Doğan
Mei Song Tong
Meiqin Lv
Meisong Tong
Meng Lan
Meng Mei
Meng-Han Dou
Meng-Liang Wang
Mengcai Zhu
Menglin Zhai
Mengmeng Li
Mengxia Hu
Mengyang Huangfu
Mesut Kartal
Miao He
Miao Zhang
Miao-Miao Peng
Michelle Keah Lubale
Min Zhao
Ming Jiang
Ming Liu
Ming Zhang
Ming-Da Zhu
Ming-Lin Yang
Mingdong Luo
Mingming Tang

Mingrou. Shi
Mingxiang Guan
Mingxuan Zhang
Mirza Shujaat Ali
Moupin Jin
Mridula Gupta
Muhammad Ali Imran
Muhammad Arslan
Muhammad Husnain
N. Vinay Kumar Reddy
Naixing Feng
Nan Wei
Nazar Ali
Peibo Wang
Peixi Xu
Peng Han
Peng Hu
Peng Liu
Pengfei Gu
Pengfei Liu
Ping Li
Ping Zou
Poman So
Poonam Namdeo
Qi Cheng
Qi Zheng
Qi-Jun Zhang
Qi-Ya Hu
Qian Yang
Qianfa Tang
Qiang Li
Qiang Wu
Qiang Zu
Qiang Zuo
Qianlei Zhuang
Qianxiong Gan
Qicheng Chen
Qili Huang
Qing He
Qing Huo Liu
Qing Nan Fan
Qingtao Sun
Qingyu Feng
Qingyun Liu

Qipeng Wang
Qirui Wang
Qiushi Zhao
Quanfeng Wang
Quanquan Wang
Qun Wei
Ran Zhao
Ren Wang
Renze Xie
Renzhou Gui
Richard Kalhöfer
Rita Veilande
Rongwen Guo
Rui Chen
Rui Liu
Rui Pei
Ruilin Wang
Ruiyue Tang
runze Huang
Sen Liu
Shaik Basheeruddin Shah
Shakeel Ahmad
Shan Xue
Shaoqing Duan
Sheng Zhang
Shenggang Gong
Shenheng Xu
Shi Pu
Shi Qiang Wu
Shi Tong Zhang
Shijia Li
Shijie Bi
Shilei Fu
Shilong Pan
Shitao Ding
Shitian Zhang
Shiyuan Guo
Shu-Jie Li
Shuai Peng
Shuang Lv
Shuguang Xiao
Shunchuan Yang
Shuo Zhang
Si Hao

Sicheng An
Sicong Wang
Sijia Li
Siying Dai
Siyu Wu
Song Rencheng
Song Xue
Songming Zou
Syed Imran Haider
Syed Shahan Jehangir
Tao Tao
Tao Zhang
Teng-Yang Ma
Thomas F. Eibert
Tian Jian Peng
Tian Liu
Tian Xie
Tianjian Peng
Tianxiang Song
Tianyi Lou
Tiaojie Xiao
Tie Jun Cui
Ting Ting Gu
Ting Wan
Tingzhu Sun
Tong Li
Tong Wang
Tongxuan Wu
Ulrich L. Rohde
Umakanta Nanda
Venkata Satya Yerrinaidu Appana
Vladimir Okhmatovski
Wang Chuci
Wangchao Hu
WanJun Jiang
Wanzhen Li
Wei Chen
Wei Shao
Wei Wang
Wei-Bing Lu
Wei-jie Wang
Weibing Lu
Weibo Wu
Weiren Zhu

Wen Chen
Wen Wei
Wen-Jun Lu
Wen-Wen Yang
Wen-Yan Yin
Wenjie Ding
Wenjie Wang
Wenlu Chen
Wenqi Chen
Wenqian Tang
Wentao Deng
Wenxuan Luo
Wenzhe Song
Wu Chenggang
Wu Yang
Xi Chong You
Xi Chu
Xian Fengyi
Xianliang
Xianliang Wu
Xianmin Guo
Xianying Luo
Xiao Feng
Xiao Jie Zhang
Xiao Jin
Xiao-Hui Yang
Xiao-Kun Zhang
Xiao-long Shi
Xiao-Min Pan
Xiao-Wei Huang
Xiaofei Xu
Xiaojie Lu
Xiaojuan Li
Xiaojun Chu
Xiaolong Li
Xiaolong Pan
Xiaomeng Zhao
Xiaomin Pan
Xiaona Zhao
Xiaopeng Yao
Xiaoyi Wang
Xiaoyu Li
Xiaoyue Cao
Xin Wang

Xin-Qing Sheng
Xin-Yue Lou
Xinbo He
Xing Li
Xingang Ren
Xingqi Zhang
Xingran Guo
Xingyue Guo
Xinhao Chen
Xinqing Sheng
Xinyi Yu
Xinyu Huang
Xinyu Wang
Xinyue Lou
Xinyue Zhang
Xinyue Zhou
Xiong Yang
Xiongwei Wu
Xiuxiu Chen
Xiyue Zhang
Xu Qing Xiong
Xuan Zheng
Xue-Qi Zheng
Xue-Ying Lin
Xuehua Zhang
Xuelong Xu
Xunjie Xu
XuRuoxi
Ya Nan Lu
Yachika Sood
Yafei Wu
Yahong Li
Yaji Zuo
Yajie Mu
Yaming Xie
Yan Qu
Yan Ran
Yan Zhang
Yan-Ting LIU
Yanan Lu
Yanfeng Lu
Yanfeng Meng
Yang Feng
Yang Kang

Yang Liu
Yang Yang
Yangbo Zhou
Yaniv Brick
Yanjie Wu
Yanju Ji
Yaohui Tang
Yaqi Wang
Yaqi Xiong
Ye Hui
Ye Liang
Ye Wang
Yi Cheng Liang
Yi Jiang
Yi Qian Mao
Yi-Xuan Zhang
Yifan Lyu
Yihang Peng
Yihao Chen
Yijia Cheng
Yilai Fan
Yinbin Pan
Ying Liu
Yingjia Li
Yingjie Cui
Yiru Liang
Yitong Zhang
Yiwei Wang
Yixin Guo
Yong Bo
Yong Cai
Yong Chen
Yong Wang
Yong-Chang Jiao
Yongfei Wang
Yonggeng Zhu
Yongyuan Hu
Yossi Dahan
Youqian Su
Youshen Tian
Yu Cao
Yu Chen
Yu Mao Wu
Yu Qiao

Yu Wang
Yu Ying Dou
Yuan Huang
Yuan Yao
Yuan Zeng
Yuan'an Liu
Yubiao Du
Yucheng Feng
Yue Chen
Yue Ma
Yue Zhang
Yue Zhu
Yuhan Zuo
Yuhang Dou
Yuhang Zhu
Yuhao Wu
Yuhao Zhu
Yuhui He
Yuhui Wang
Yumao Wu
Yun-Chuan Wang
Yun-Han Chen
Yunbo Zhang
Yunchuan Wang
Yunlin Zou
Yunlong Yang
Yunpeng Lyu
Yupeng Hou
Yuqi Ouyang
Yuqiao.Zhao
Yutong Liu
Yutong Zhao
Yuwei Du
Yuxin Lin
Yuxin Rong
Yuxuan Chen
Yuxuan Liu
Yuxuan Wang
Yuyang Wang
Yuzhe. Luan
Zechen Li
Zehui Chen
Zeming Hu
Zengkai Wu

Zhancao Guo
Zhang Jian
Zhang Xinhui
Zhangjie Luo
Zhanwen Wang
Zhanyu Pu
zhanyu yang
Zhao Wang
Zhaosheng Xia
Zhaoyuan Wang
Zhaozhao Liu
Zhe Cheng
Zhe Jiang
Zhe Yu Luo
Zhehang Ye
Zheng Lang Jia
Zheng Zhou
Zheng-Yu Huang
Zhengjiang Zhao
Zhenglin Li
Zhenhong Fan
zhenni kuang
Zhenzi Feng
Zhewen Chen
Zhi-Yuan Chen
Zhibo Huang
Zhichen Zhuang
Zhichong Wan
Zhigang Huang
Zhiheng Li
Zhili Zhao
Zhipeng Chen

Zhipeng Li
Zhiqi Zhu
Zhixiang Huang
Zhixing Zhong
Zhiyu Xu
Zhongwei Xu
Zhou Wu
Zhou Xu
Zhoulin Fan
Zhukang Wang
Zhun Wei
Zhuoxi Chen
Zhuoyue Zhao
Zi-Bin Weng
Zi-Chen Li
Zi. he
Zian Jiao
Zibin Weng
Zihan Du
Zihan Feng
Zihan Yang
Zihao Cao
Zijie WANG
Zijun Hu
ZiliangZhao
Ziyan Li
Ziyu Wang
Ziyu Wu
Ziyuan Chen
Zonglin Wu
Zongyi Zhou