

**2023 IEEE International Symposium on  
Antennas and Propagation  
and  
URSI-USNC National Radio Science Meeting**

23-28 July 2023 • Portland, Oregon, U.S.A.



Awards Presentation

Wednesday, July 26, 2023  
6:00-7:00 pm



**IEEE**



# PROGRAM

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## Awards Presentation Introductions and Welcome

*Stefano Maci, AP-S President*  
*Branislav Notaros, AP-S President-Elect*  
*Cynthia Furse, AP-S Awards Committee Chair*

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## 2023 IEEE Richard M. Emberson Award

*Presenter Jennifer Bernhard, AP-S Past-President*

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## IEEE Fellows

*Presenter Cynthia Furse*

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## AP-S Field Awards

*Presenter Cynthia Furse*

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## AP-S Industry Awards

*Presenter Cynthia Furse*

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## 2022 IEEE Ulrich L. Rohde Humanitarian Technical Field Project Award

*Presenter Jawad Y. Siddiqui, Chair, AP-S SIGHT Committee*

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## AP-S Paper Awards

*Presenter Cynthia Furse*

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## AP-S Outstanding Young Professional of the Year Award

*Presenter C.J. Reddy, YP Committee Chair*

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## AP-S Outstanding Chapter Awards

*Presenter Ajay K. Poddar, AP-S Chapter Activities Committee Chair*

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## Raj Mitra Travel Grant

*Presenter Cynthia Furse, and Raj Mitra*

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## AP-S Membership and Benefits Committee Travel Grant

*Presenter George Shaker, Committee Chair*

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## C.J. Reddy Travel Grant

*Presenter C.J. Reddy*

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## TICRA Foundation Travel Grants

*Presenter Pasquale Giuseppe Nicolaci and Mustafa Murat Bilgic, TICRA Foundation*

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## Mojgan Daneshmand Grant

*Presenter Claire Migliaccio, AP-S Diversity, Equity and Inclusion Committee Chair*

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## URSI Awards (Santimay Basu Prize, Booker Fellowship and the Distinguished Radio Science Award)

*Presented by: Michael H. Newkirk, URSI*

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## Student Paper Competition Awards

*Presenters Reza Khalaj Amineh, Ahmed Hassan, SPC Committee*

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## Student Design Contest

*Presenters Ting-Yen Shi, Glauco Fontgalland, SDC Committee*

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## AP-S Society Recognitions:

*2023 President, Stefano Maci*  
*Recognition of Outgoing Adcom and Concluding Remarks*

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# 2023 IEEE Richard M. Emberson Award

## W. ROSS STONE

*"For sustained contributions to and impactful leadership in the IEEE Technical Activities publication enterprise."*



**W. Ross Stone** was an IEEE Life Fellow and an influential IEEE Technical Activities leader. He passed away 29 March, 2023 at the age of 75. Stone held several leadership positions with the IEEE Technical Activities Board for more than four decades. He transformed the way the TAB periodicals committee operates by establishing several programs and processes to revitalize IEEE publications and initiate strategic plans to ensure their success in the future, according to his Emberson Award citation. He was president of Stoneware, a business he founded in San Diego that provided consulting and expert witness services related to antennas, propagation, and telecommunications.

Stone received a bachelor's degree in 1967 in earth sciences from the University of California, San Diego. He went on to earn master's and doctoral degrees in applied sciences from UCSD in 1973 and 1978, respectively. He worked as chief scientist at McDonnell Technologies and a research advisor at IRT. In the early 1980s he founded Stoneware, which also provided litigation support services, patent infringement analysis, prior art research, and invention and design consulting in the areas of cellphone handset antennas and base stations, cellular systems, IEEE 802.11 technologies, LTE networks, Wi-Fi, and wireless networking technologies. During his career, he also served in leadership positions for 16 wireless communications startups. He was an adjunct professor at Beijing Jiaotong University and the Politecnico di Torino.

Stone, who served as chair of the TAB periodicals committee, established 15 ad hoc committees to further IEEE's publication goals. The ad hoc committees developed new evaluation metrics for proposed articles, a mentoring program for publication editors, and long-term open-access strategies. For more than 30 years, Stone was editor in chief of the IEEE Antennas and Propagation Society Newsletter, which evolved into IEEE Antennas and Propagation Magazine.

"While he's known for his rigor and results-oriented approach, those who work with Stone never fail to describe him as a gentleman," one of his Emberson Award endorsers said. "He's invariably polite, open to discussion, and handles any disagreements sensitively and respectfully. Stone has a kind word for every collaborator and displays an unwavering sense of humor in the most complicated situations."

In addition to his contributions to IEEE, Stone served as editor for more than 20 years of The Radio Science Bulletin, a publication of the International Union of Radio Science (URSI). He was a Fellow of the Chinese Institute of Electronics, the Electromagnetics Academy, and URSI. He was also a life member of the Phi Eta Sigma honor society. In addition, he was a member of several societies including the Association for Computing Machinery, Optica, the Society for Industrial and Applied Mathematics, and the Society for Technical Communication.

## 2023 IEEE AP-S Fellows

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### **Francesco Andriulli**

*for contributions to computational electromagnetics*

### **Mauro Ettorre**

*for contributions to large antenna arrays based on quasi-optical beam formers*

### **Wonbin Hong**

*for contributions to millimeter-wave mobile and base station antennas*

### **Ahmad Hoorfar**

*for contributions to sensing and imaging in stratified media and optimization in electromagnetics*

### **Oscar Quevedo-teruel**

*for contributions to glide symmetry based metasurfaces and lens antennas*

### **Paolo Rocca**

*for contributions to clustered and time-modulated antenna arrays*

### **Jack Schuss**

*for leadership in the development of antennas for satellite communications and radars*

### **Kenneth Tong**

*for contributions to wideband and circularly polarized printed antenna designs*

### **Giovanni Toso**

*for contributions to multibeam antenna developments for satellite applications*

## 2023 IEEE Fellows Elevated by Other Societies

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### **Jaleel Akhtar**

*for contributions in microwave planar sensors and nano-composites-based microwave absorbers*

### **Walid Ali-ahmad**

*for leadership in development of low-cost direct-conversion cellular RF systems*

### **Muhammad Imran**

*for contributions to energy efficient and self-organized wireless systems*

### **Anthony Martone**

*for contributions to the development and validation of cognitive radar systems*

### **Yihong Qi**

*for contributions to over-the-air testing of massive MIMO systems and development of over-the-air measurement systems*

### **Smail Tedjini**

*for contributions to the development of harmonic backscattering RFID systems and chipless tag solutions*

### **Hua Wang**

*for contributions to high-efficiency microwave and millimeter-wave power amplifiers*

# 2023 IEEE AP-S Field Awards

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## DISTINGUISHED ACHIEVEMENT AWARD

### ANDREA ALÙ

*"For pioneering contributions to metamaterial technologies and extreme electromagnetic wave phenomena"*



**Andrea Alù** is a Distinguished Professor at the City University of New York (CUNY), the Einstein Professor of Physics at the CUNY Graduate Center, and the Founding Director of the Photonics Initiative at the CUNY Advanced Science Research Center. He received his Laurea (2001) and PhD (2007) from the University of Roma Tre, Italy, and, after a postdoc at the University of Pennsylvania, he joined the faculty of the University of Texas at Austin in 2009, where he was the Temple

Foundation Endowed Professor until Jan. 2018. Dr. Alù is a Fellow of IEEE, AAAS, MRS, OSA, NAI, SPIE and APS, a Highly Cited Researcher since 2017, serves as the President of Metamorphose since 2019, as an IEEE AP-S Distinguished Lecturer since 2014, and served on the IEEE AP-S AdCom 2018-2021. He has received several scientific awards for his research work, including the IEEE Kiyo Tomiyasu Award, the NSF Alan T. Waterman award, the Blavatnik National Award in Physics and Engineering, the URSI Issac Koga Gold Medal, the Dan Maydan Prize in Nanoscience, a Vannevar Bush Faculty Fellowship from DoD, the ICO Prize in Optics, the OSA Adolph Lomb Medal, and the Brillouin Medal.

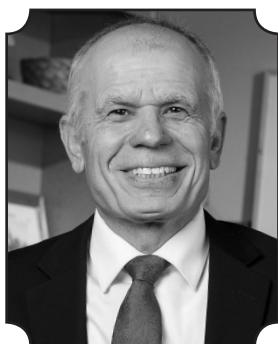
## 2023 IEEE AP-S Field Awards

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### CHEN-TO TAI DISTINGUISHED EDUCATOR AWARD

#### CHRISTOS CHRISTODOULOU

*"In recognition of being an outstanding educator and a passionate mentor to both undergraduate and graduate students"*



**Christos G. Christodoulou** received his Ph.D. degree in Electrical Engineering from North Carolina State University in 1985. He is currently with the Department of Electrical and Computer Engineering at the University of New Mexico where he serves as the Director of COSMIAC (Space Electronics Research Center). He is a Life IEEE Fellow and a member of Commission B of URSI. He is the recipient of the 2010 IEEE John Krauss Antenna Award, the 2022 IEEE Henning Distinguished

Mentoring Award, and has been inducted in the Alumni Hall of Fame for the ECE Department, at North Carolina State University (2016). He served as an IEEE AP-S Distinguished Lecturer (2007-2010) and served as an associate editor for the AP Transactions for six years. He also served as a co-editor for a special issue on "Reconfigurable Systems" in the IEEE Proceedings (2015), and a special issue in the IEEE Antennas and Propagation on "Antenna Systems and Propagation for Cognitive Radio" in 2014. Since 2013 he has been serving as the series editor for Artech House Publishing company for the areas of Antennas, Propagation, and Electromagnetics. He has published over 600 papers in journals and conferences, written 19 book chapters, and co-authored 9 books.

## 2023 IEEE AP-S Field Awards

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### CHEN-TO TAI DISTINGUISHED EDUCATOR AWARD

#### FILIBERTO BILOTTI

*"For being an inspiring educator, mentor, and contributor to the development of electromagnetic metamaterials, metasurfaces, and their applications"*



**Filiberto Bilotti** is a Full Professor of Engineering Electromagnetics and the Director of the Antennas and Metamaterials Research Laboratory at the Department of Industrial, Electronic, and Mechanical Engineering of ROMA TRE University. He is also the Executive Director and the former President of the METAMORPHOSE VI, the international scientific society on metamaterials. He serves as an Associate Editor of the IEEE Transactions on Antennas & Propagation and is/has been the General,

TPC, and Steering Committee Chair of many flagship conferences in the field. Prof. Bilotti is a Fellow of the IEEE and the recipient of several international prizes and recognitions. His main research interests include microwave and millimeter-wave antennas, modeling and applications of electromagnetic metamaterials and metasurfaces, development of smart electromagnetic environments for future wireless systems, modeling, design, implementation, and application of reconfigurable intelligent metasurfaces, and time-modulated and time-varying metamaterials and metasurfaces.

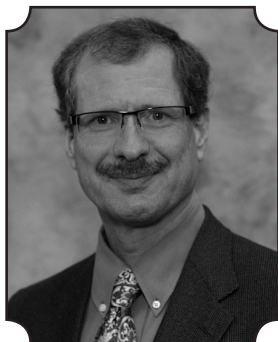
## 2023 IEEE AP-S Field Awards

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### JOHN KRAUS ANTENNA AWARD

### DOUGLAS HENRY WERNER

*"For innovative contributions to antenna theory and design including the application of transformation electromagnetics, metamaterials and global optimization techniques"*



**Douglas H. Werner** received the B.S., M.S., and Ph.D. degrees in electrical engineering and the M.A. degree in mathematics from the Pennsylvania State University (Penn State), University Park, in 1983, 1985, 1989, and 1986, respectively. He holds the John L. and Genevieve H. McCain Chair Professorship in the Penn State Department of Electrical Engineering. He is the director of the Computational Electromagnetics and Antennas Research Lab as well as a faculty member of

the Materials Research Institute at Penn State. He holds 20 patents, has published over 1000 technical papers and proceedings articles, 7 books and 30 book chapters. He is a Fellow of eight professional societies including IEEE, IET, NAI, OPTICA, SPIE, ACES, AAIA, and the PIER Electromagnetics Academy. He also serves as the Editor for the IEEE Press Series on Electromagnetic Wave Theory & Applications. Prof. Werner has received numerous awards and recognitions including the IEEE Antennas and Propagation Society Edward E. Altshuler Prize Paper Award and the Harold A. Wheeler Applications Prize Paper Award in 2011 and 2014 respectively. He also received the 2015 ACES Technical Achievement Award, the 2019 ACES Computational Electromagnetics Award, and the IEEE Antennas and Propagation Society 2019 Chen-To Tai Distinguished Educator Award.



## 2023 IEEE AP-S Field Awards

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### LOT SHAFAI MID-CAREER DISTINGUISHED ACHIEVEMENT AWARD ASIMINA KIOURTI

*"For her contributions to body area electromagnetics and her outreach efforts towards boosting womens' proclivity to pursue careers in engineering"*



**Asimina Kiourti** is an Endowed Associate Professor of Electrical and Computer Engineering at The Ohio State University. From 2013 to 2016, she was a Post-Doctoral Researcher and then a Senior Research Associate at Ohio State's ElectroScience Laboratory. Prior to that, she received the Ph.D. degree in Electrical and Computer Engineering from the National Technical University of Athens, Greece (2013) and the M.Sc. degree from University College London, UK (2009). Her research interests lie in bio-electromagnetics, wearable/implantable antennas, and sensors for body area applications. She has published 1 book, 12 book chapters, 9 patents, >75 journal papers, and >140 conference papers/abstracts. Her work has been funded by NSF, NIH, NASA, DoD, and more, and has been recognized with over 40 scholarly recognitions, including the 2022 Ohio State Early Career Distinguished Scholar Award, 2021 NSF CAREER award, and 2021 '40 Under 40' recognition by Columbus Business First. Her research contributions have been featured by TechCrunch, the Times of India, and Australia Network News. Prof. Kiourti serves in IEEE, URSI, and ACES in several elected and appointed roles. She is the Senior Editor of the IEEE Transactions and Antennas and Propagation and Editor of the IEEE Antennas and Propagation Magazine Bioelectromagnetics column.

## 2023 IEEE AP-S Field Awards

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### HARRINGTON-MITTRA AWARD IN COMPUTATIONAL ELECTROMAGNETICS

#### ATEF Z. ELSHERBINI

*"For contributions to computational electromagnetics with hardware acceleration techniques"*



**Atef Z. Elsherbeni** is a professor of Electrical Engineering at Colorado School of Mines. He received two honor B.Sc. degrees, one in Electronics and Communications, and the other in Applied Physics, a M.Eng. and a Ph.D. degree both in Electrical Engineering. He started his engineering career as a part time Software and System Design Engineer at Automated Data System Center in Egypt. His academic career started at Cairo University in 1976. He spent

26 years at the University of Mississippi where he was a Professor of Electrical Engineering and Associate Dean for Research. During the following 10 years at Colorado School of Mines, he was the Dobelman Distinguished Professor, interim Department Head of the EECS Department, and EE Department Head. He was a Finland Distinguished Professor, one of the Associate Editors to Radio Science Journal, a past Chair of the Engineering and Physics Division of Mississippi Academy of Science, a past Chair of Educational Activity Committee for IEEE Region 3 Section, and the general Chair for the 2014 APS-URSI Symposium, and the past president of ACES Society. Dr. Elsherbeni is the Editor-in-Chief for ACES Journal, one of the current IEEE Antennas and Propagation Society Distinguished Lecturers, a Life Fellow member of IEEE, and a Fellow member of ACES.

## 2023 IEEE AP-S Field Awards

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### **DONALD G. DUDLEY JR.** **UNDERGRADUATE TEACHING AWARD** **HUGO G. ESPINOSA**

*"In recognition of his innovations in teaching and curriculum development, successfully equipping emerging generations of engineers with the skills needed to address important sustainability challenges"*



**Dr Hugo G. Espinosa** (Senior Member, IEEE) is a Senior Lecturer in Electronic Engineering at the School of Engineering and Built Environment, Griffith University, QLD, Australia. He is the First Year Coordinator for Engineering (Nathan Campus). Dr Espinosa received his bachelor's degree in Electronic and Telecommunications Engineering from the Tecnológico de Monterrey, Mexico; his master's degree from the University of Sao Paulo, Brazil; and his Ph.D. degree (Summa Cum Laude)

from the Technical University of Catalonia, Spain, both in Electronic Engineering. He has been a visiting researcher at the Federal Polytechnic School of Lausanne, Switzerland, and a Postdoctoral Fellow at Tel Aviv University, Israel. Dr Espinosa is the Chair of IEEE APS/MTT Chapter, QLD Section. He is an Associate Editor of IEEE Antennas and Wireless Propagation Letters, and is a Member of the IEEE Education Society, IEEE APS Education Committee, and Australasian Association for Engineering Education. He is also an IEEE STEM Ambassador. His approach to teaching is based on innovative techniques, such as experiential learning, project based-learning, and flipped classroom; his evidence-based teaching methods have been published in journal articles, conference proceedings, and book chapters. Dr Espinosa is co-editor of the book "Advancing Engineering Education Beyond COVID: A Guide for Educators" (CRC Press), and co-author of three chapters of the book "Teaching Electromagnetics: Innovative Approaches and Pedagogical Strategies" (CRC Press). He has received the Griffith Engineering Lecturer of the Year award in 2020 and 2021, the Senior Deputy Vice-Chancellor Excellence in Teaching commendation in 2015 and 2019, and the IEEE QLD Section Outstanding Volunteer award in 2022.

# 2023 IEEE Industry Awards

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## INDUSTRIAL INNOVATION AWARD

### LARS J. FOGED

*"For demonstrating visionary leadership in advancing the use of multi-probe technology for antenna measurements, standardization efforts, and pioneering innovation in antenna measurement and post-processing techniques"*



**Lars J. Foged** (M'91-SM'00) received his M.S. in Electrical Engineering from California Institute of Technology, USA in 1990.

He is Scientific Director of the Microwave Vision Group.

In 2004 he became secretary and now vice-chair of the IEEE Antenna Standards Committee (ASC). He was leader in 2016 and 2017 and now member of the Industry Initiatives Committee (IIC) of IEEE Antennas and Propagation Society (APS). He is member of the IEEE New Technology Directions Committee (NTDC). He is Board Member, teacher, and course organizer in the European School of Antennas (ESOA) since 2006. He is the 2023 president, Fellow and Distinguished Achievement Award recipient of the Antenna Measurements Technique association (AMTA).

He was delegate assembly member of the European Association on Antennas and Propagation (EURAAP) and responsible for the Working Group on Antenna Measurements from 2009 to 2012. He was Vice-Chair of the European Conference on Antennas and Propagation (EUCAP) in both 2011 and 2022, Industrial Chair in 2012, 2014, 2017, and Technical Program Chair in 2016 and 2021.

He has authored or co-authored more than 300 journal and conference papers on antenna design and measurement topics and received the "Best Technical Paper Award" at the 2012 AMTA symposium and the "Best Measurement Paper Award" at the EUCAP 2021 conference. He co-authored the IET book "Post-processing Techniques in Antenna Measurement" in 2019, and the Artech house book "Modern Automotive Antenna Measurements" in 2022 and made contributions to other five books and standards and holds four patents.

# 2023 IEEE Industry Awards

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## DISTINGUISHED INDUSTRY LEADER AWARD

### DR. ING. HABIL ULRICH L. ROHDE

*"For the scientific contribution and leaderships to the field of Antennas and related Communication Systems, leading to development of state-of-the-art Antennas products for industrial, military and aerospace applications"*



**Prof. Dr. Ing. habil Ulrich L. Rohde** is a Partner of Rohde & Schwarz, Munich Germany; Chairman of Synergy Microwave Corp., Paterson, New Jersey; President of Communications Consulting Corporation; serving as an honorary member of the Senate of the University of the Armed Forces Munich, Germany honorary member of the Senate of the Brandenburg University of Technology Cottbus-Senftenberg, Germany; past member of the Board of Directors of Ansoft Corporation, Pittsburgh, Pennsylvania.

Dr. Rohde is serving as a Professor of Radio-Microwave Frequency Theory and Techniques at several universities worldwide, to name a few : Honorary Professor IIT-Delhi, Honorary Chair Professor IIT-Jammu, Professor at the University of Oradea for microwave technology, a honorary professor at the BTU Cottbus-Senftenberg University of Technology, and professor at the German Armed Forces University Munich (Technical Informatics ).

Rohde has published 400+ scientific papers, co-authored over dozen books, and over 4 dozens patents; received several awards, to name a few recent awards: recipient of 2022 IEEE Photonics Society Engineering Achievement Award, 2021 Cross of Merit of the Federal Republic of Germany, 2020 IEEE Region 1 Technological Innovation Award, 2019 IETE Fellow Award, 2019 IEEE CAS Industrial Pioneer Award; 2017 RCA Life time achievement award, 2017 IEEE-Cady Award, 2017 IEEE AP-S Distinguish achievement award, 2017 Wireless Innovation Forum Leadership Award, 2016 IEEE MTT-S Applications Award, 2015 IEEE-Rabi Award, 2015 IEEE Region-1 Award, and 2014 IEEE-Sawyer Award.

And in December 2022, The Indian National Academy of Engineering (INAE) inducted Dr. Ulrich Rohde as a fellow during ceremonies for "outstanding contributions to engineering and also your dynamic leadership in engineering domain, which have immensely contributed for the faster development of the country." Dr. Rohde is only the third foreign fellow elected by the INAE, preceded by Dr. Jeffrey Wineland, who won a Nobel Prize in Physics.

# 2022 IEEE ULRICH L. ROHDE HUMANITARIAN TECHNICAL FIELD PROJECT AWARD

## SAMPATH VEERARAGHAVAN, IEEE BOSTON SECTION



**Sampathkumar Veeraghavan** is a globally renowned technologist best known for his technological innovations in addressing global humanitarian and sustainable development challenges. He is a seasoned technology and business leader with over 16 years of experience in Top 500 Fortune companies. Throughout his career, he has led business-critical strategic programs and successfully delivered cutting-edge technologies in areas of conversational Artificial Intelligence (AI), Natural Language Understanding, cloud computing, enterprise systems, infrastructure technologies, assistive and sustainable technologies. Sampath served as an expert in the 2020 Broadband Commission working group on school connectivity co-chaired by UNESCO, UNICEF, and ITU to drive "GIGA," a Global School Connectivity Initiative. He

is the founder and president of "The Brahmam," a humanitarian program delivering next-generation social innovations to achieve sustainable development goals and benefit marginalized communities globally. Over a decade, he has launched large-scale transformational global initiatives that brought together academic institutions, industry leaders, and Government agencies to address pressing global challenges faced by children with disabilities, impoverished women, and students from marginalized communities in developing nations.

Sampath serves as the Global Chair of the 2021 IEEE Humanitarian Activities Committee (IEEE HAC) of the world's largest technical professional organization "The Institute of Electrical and Electronics Engineers (IEEE), USA. In this role, he spearheads the global strategy and portfolio of sustainable development and humanitarian engineering programs to deliver impactful programs to engage and benefit 400K+ IEEE members at the grassroots in 160 countries. He is credited with launching several novel global programs in humanitarian engineering which successfully inspired and engaged students and young professionals in sustainable development activities globally. Sampath was the Global Chair (2019-2020) of IEEE Special Interest Group on Humanitarian technologies (SIGHT), leading the program to record-breaking growth through high-impact, technology-driven sustainable programs benefiting members in 119+ countries. He is the founding chair for the IEEE SIGHT day (2020) and SIGHT week (2019), a global program that showcases the impactful IEEE technology-based humanitarian programs. He currently leads the IEEE Standard's 2021 corporate sustainability working group. As an active IEEE and IEEE-HKN member, Sampath has spearheaded more than 20+ global committees and has made significant contributions in advancing technology for the benefit of humanity.

Sampath is accredited with numerous global awards and media mentions for his leadership excellence and technological innovations in addressing global sustainable development challenges. He has delivered 250+ invited talks in International forums, premier technology conferences, and industry panels organized by UN, IEEE, ITU, World IoT forum and Top universities around the globe. He has authored and published 30+ research publications and thought leadership articles in leading global conferences, journals and magazines. His technological innovations and leadership excellence were featured in cover stories of global media such as IEEE TV, IEEE spectrum, USA today, E-week, AI-news and IEEE transmitter, The Bridge, and ACM-News. He received an M.S. degree in Electrical Engineering from Tufts University, Massachusetts, USA and a B.E. degree in Computer Science and Engineering from Anna University, India. He currently works as a senior technology and program management leader in the conversational Artificial Intelligence industry where he spearheads a portfolio of science and engineering programs to advance spoken language innovations.

## 2022 IEEE AP-S Paper Awards

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### **SERGEI A. SCHELKUNOFF TRANSACTIONS PRIZE PAPER AWARD**

**Charles A. Guo and Yingjie Jay Guo**

"A general approach for synthesizing multibeam antenna arrays employing generalized joined coupler matrix."

*IEEE Transactions on Antennas and Propagation* Vol. 70, no. 9 (2022): 7556-7564

### **HAROLD A. WHEELER APPLICATIONS PRIZE PAPER AWARD**

**Ilias I. Giannakopoulos, Georgy D. Guryev,  
José EC Serrallés, Ioannis P. Georgakis, Luca Daniel,  
Jacob K. White, and Riccardo Lattanzi**

"Compression of volume-surface integral equation matrices via Tucker decomposition for magnetic resonance applications."

*IEEE Transactions on Antennas and Propagation* Vol. 70, no. 1 (2021): 459-471

### **R. W. P. KING PAPER AWARD**

**Carl Pfeiffer and Jeffrey Massman**

"An UWB hemispherical Vivaldi array."

*IEEE Transactions on Antennas and Propagation* Vol. 70, no. 10 (2022): 9214-9224

### **PIERGIORGIO L. E. USLENGHI LETTERS PRIZE PAPER AWARD**

**Lukas Piotrowsky, Jan Barowski, and Nils Pohl**

"Near-field effects on micrometer accurate ranging with ultra-wideband mmwave radar."

*IEEE Antennas and Wireless Propagation Letters* Vol. 21, no. 5 (2022): 938-942

### **EDWARD E. ALTSCHULER AP-S MAGAZINE PRIZE PAPER AWARD**

**Miloslav Čapek and Kurt Schab**

"Computational aspects of characteristic mode decomposition: An overview."

*IEEE Antennas and Propagation Magazine* Vol. 64, no. 2 (2022): 23-31

# 2023 AP-S OUTSTANDING YOUNG PROFESSIONAL OF THE YEAR AWARD

## ZHIJIAO CHEN



**Prof. Zhijiao Chen** received the B.S. degree from Beijing University of Posts and Telecommunications (BUPT) in 2010, and Ph.D. degree from Queen Mary University of London (QMUL) in 2014. She joined the School of Electronic Engineering in BUPT as a Lecturer in 2014, and currently is an Associate Professor. She was secondment to Ace-Axis Wireless Technology Laboratories Ltd (Essex, UK) in 2012, and joined Northeastern University (Boston, MA) as a visiting student in 2013. In 2018, she joined the State Key laboratory of Terahertz and Millimeter-wave in City University of Hong Kong (Hong Kong, China) as a visiting scholar. In 2019, she joined the National Physical Laboratory (London, UK) as a visiting scholar. She received the Best Paper Award at IEEE International Workshop Antenna Technology (IEEE iWAT2013, Karlsruhe, Germany), the Best Student Paper Award at IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting (IEEE APS/URSI 2013, Orlando, FL), the TICRA Travel Grant at European Conference on Antennas and Propagation (EuCAP 2014, Hague, Netherlands). She has authored/co-authored more than 30 journal articles, one English book and more than 50 conference papers. She serves as the Associate Editor for Microwave and Optical Technology Letters. Her research interests include but not limited to Dielectric Resonator Antennas, Millimeter-wave Antenna Array, Semi-smart Base Station Antennas, and Antennas for Radio Astronomy.



## OUTSTANDING CHAPTER AWARDS

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### 2023 AP-S OUTSTANDING CHAPTER AWARDS

#### 1ST PLACE

**Bangalore AP-MTT Joint Chapter**

#### 2ND PLACE

**New South Wales AP-MTT Joint Chapter**

#### 3RD PLACE

**IIST Kerala SBC**

### RAJ MITTRA TRAVEL GRANT AWARD

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**Chaoyun Song**

*King's College*

### AP-S MEMBERSHIP AND BENEFITS COMMITTEE TRAVEL GRANT

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**Seung Yoon Lee**

*Georgia Tech*

**Shyam Sundar Pati**

*IIT Palakkad*

**Yu Cheng**

*University College Dublin*

**Sebastian Díaz**

*Pontificia Universidad Católica de Valparaíso*

**John Willis**

*Florida International University*

**Gabriela Jana Griffiths**

*Aberystwyth University*

**Monica Wasfy William**

*Queens University*

**Tian Liang**

*University of Electronic Science and Technology of China*

**Xiaojie Lu**

*Tongji University*

**Asif Bilal**

*University of Cyprus*

**Akhila Gouda**

*IIT Indore*

**Sudeb Bhattacharya**

*IIT Kanpur*

**Shiva Hajitabarmarznaki**

*University of Wisconsin*

**Hibiki Shiiba**

*Kumamoto University*

**Kyujong Choi**

*Yonsei University*

**Nelson Castro Salas**

*University Carlos III of Madrid*

**Rafsan Mahin**

*University of Texas at Dallas*

**Rasul Choupanzadeh**

*University of Idaho*

**Muhammad Zakir Khan**

*University of Glasgow*

**Habeeb Adeagbo**

*North Carolina A & T State*

**Haochang Wu**

*University College, Dublin*

## C.J. REDDY TRAVEL GRANT

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**Serene Abu-Sardana**  
*University of Waterloo*

**Cristina Origlia**  
*Politecnico di Torino*

**Ravikanth Thanikonda**  
*University of Siena*

**Ikir Gashi**  
*University of Siena*

**Christopher Ryu**  
*University of Illinois  
Urbana-Champaign*

**Youngno Youn**  
*Pohang University of Science  
and Technology*

## TICRA FOUNDATION TRAVEL GRANTS

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**Ratanak Phon**  
*Chung-Ang University, Korea*

**Kassen Dautov**  
*JSC Nazarbayev University,  
Kazakhstan*

**Dhaval Pujara**  
*Pandit Deendayal Energy  
University, India*

**Jian Xu Sun**  
*University of Electronic Science  
and Technology, China*

**Yujie Zhang**  
*National University of Singapore*

**Tamanna Islam**  
*North Carolina A&T State  
University, USA*

**Martina Falchi**  
*Università di Pisa, Italy*

**Hoda Farhat**  
*American University of  
Beirut, Lebanon*

## MOJGAN DANESHMAND GRANT

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**Andrea Alejandra Ávila  
Saavedra**  
*Pontifical Catholic University of  
Valparaiso*

**Mai Osama Sallam**  
*Nile University*

**Prajakta Sathe**  
*IIT, Kharagpur*

**Audrey L Evans**  
*University of  
Wisconsin-Madison*

**Martina Teresa Bevacqua**  
*Università degli Studi  
Mediterranea di Reggio  
Calabria*

**Rocio Rodriguez Cano**  
*Aalborg University/ Penn State*

**Elizaveta Motovilova**  
*Weill Cornell Medicine*

**Zahra Manzoor**  
*Purdue University*

**Siti Nailah Mastura**  
*Zainarry University of Adelaide*

**Gaurangi Gupta**  
*Jet Propulsion Laboratory,  
California Institute of Technology*

**Parisa Lofti**  
*Antenna Engineer at PCTEL*

**Tang Shiwen**  
*The Hong Kong University of  
Science and Technology*

## URSI AWARDS

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### SANTIMAY BASU PRIZE

**Haonan Chen**  
*Colorado State University*

### BOOKER FELLOWSHIP

**Mohammad Al-Khaldi**  
*University Corporation For Atmospheric Research*

### DISTINGUISHED RADIO SCIENCE AWARD

**Raj Mittra**  
*University of Central Florida*

# STUDENT PAPER COMPETITION AWARDS FINALISTS

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**Muhammad Hamza, Constantinos L. Zekios, Stavros V. Georgakopoulos**

"TU-SP.2P.1: A 33 - 101 GHz Ultra-Wideband Tightly Coupled Monopole Array (TCMA)"  
*Florida International University, United States*

**Luke Kipfer, Rick Kindt, Marinos Vouvakis**

"TU-SP.2P.7: Novel Wideband Beamformers for AESAs"  
*University of Massachusetts Amherst, United States; Naval Research Laboratory, United States;  
University of Massachusetts Amherst, United States*

**Sebastian Celis, Ran Zhao, Rui Chen, Hakan Bagci**

"TU-A3.1P.3: An SIE-GSTC Solver for Simulation of Monoanisotropic Metasurfaces"  
*King Abdullah University of Science and Technology, Saudi Arabia*

**Zere Iman, Zubair Akhter, Atif Shamim**

"WE-SP.1P.2: Method for Tackling the Variations in the Material Properties of  
3D Printed Substrates for Microstrip Antennas"  
*King Abdullah University of Science and Technology, Saudi Arabia*

**Tianqi Ao, Yuandan Dong**

"WE-A5.2P.10: Fully Metallic 3D-Printed Omnidirectional High-Gain Array Antenna for 5G Application"  
*University of Electric Science and Technology of China*

**Hoda Farhat, Joseph Costantine, Rouwaida Kanj, Youssef Tawk,  
Ali Ramadan, Assaad Eid**

"TH-A5.1A.8: A V-Band Highly Directive Circularly Polarized Antenna Array for Wireless and  
Contactless Continuous Glucose Monitoring"  
*American University of Beirut, Lebanon*

**Langran Deng, Ningbo Gong, Guijie Diao, Shunchuan Yang**

"TH-A3.1P.6: A Stable and Symmetric FDTD Subgridding Method with Arbitrary Grid Ratio"  
*Beihang University, China; Beijing Electro-mechanical Engineering Institute, China; Science and Technology  
on Complex System Control and Intelligent Agent Cooperation Laboratory, China; Beihang University, China*

**Christopher Areias, Mary Herndon, Craig Armiento, Alkim Akyurtlu**

"TH-A1.2P.1: A New Method for Improving Return Loss in Additively Integrated Bare Die Amplifiers"  
*University of Massachusetts Lowell, United States; Raytheon Technologies, United States*

**Vahid Nikkhah, Brian Edwards, Nader Engheta**

"FR-A2.1A.3: Antenna Inverse Design Using Mu-Near-Zero Isorefractive (MNZIR) Materials"  
*University of Massachusetts Lowell, United States; Raytheon Technologies, United States;  
University of Pennsylvania, United States*

**Li-Wei Zhao, Ya Fei Wu, Yong-Xin Guo**

"FR-A5.3A.4: A Kirigami-Inspired Foldable Spherical Fully Dielectric Luneburg Lens Antenna"  
*National University of Singapore*

**Yang Cheng, Yuandan Dong**

"FR-A5.3A.3: A Wideband Hybrid Metal and Dielectric Reflective Lens Antenna for  
Millimeter-Wave Applications"  
*University of Electronic Science and Technology of China*

# STUDENT DESIGN CONTEST FINALISTS

---

## **Xidian University (China)**

*Team:* KINESTHETIC WAVE

*Primary Mentor:* Long Li

*Members:* Zhe Zheng (undergraduate), Heng Zhou (undergraduate),  
Tianguang Lv (undergraduate), Xiangjin Ma (graduate),  
and Lihao Zhu (graduate)

## **Carleton University (Ottawa, Ontario, Canada)**

*Team:* MARS

*Primary Mentor:* Shulabh Gupta

*Members:* David Song (undergraduate) and Keigan MacDonell (graduate)

## **South China University of Technology (China)**

*Team:* RECONFIGURABLE FUTURE

*Primary Mentor:* Quan Xue

*Members:* Guohai Quan (undergraduate), Xuelong Chen (undergraduate),  
Zhipeng Hu (graduate), and Yuqi Wang (graduate)

## **American University of Beirut, Lebanon (Lebanon)**

*Team:* Reflective Intelligent Surface for Smart Agriculture (RISSA)

*Primary Mentor:* Dr. Youssef Tawk

*Members:* Karim Hout (undergraduate), Loulwa Rabih (undergraduate),  
Valerie Jaatour (undergraduate), Dima Hijazi (undergraduate),  
and Ahmad Jabri (graduate)

## **Lund University (Sweden)**

*Team:* RICE-BOX GROUP

*Primary Mentor:* Dr. Johan Lundgren

*Members:* Elias Björk (undergraduate), Linus von Ekensteen Löfgren  
(undergraduate), Oskar Watsfeldt (undergraduate), and Ben Ne (graduate)

## **University of California (Irvine, CA)**

*Team:* WAVE-CONTROLLED RIS

*Primary Mentor:* Dr. Filippo Capolino

*Members:* Vanessa Yao (undergraduate), Adrian De Leon (undergraduate),  
Miguel Saavedra-Melo (graduate), and Kasra Rouhi (graduate).

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