IEEE Microwave Magazine Best Paper Award

Recognizes, on an annual basis, the most significant contribution in a paper published in the IEEE Microwave Magazine.

Valentina Palazzi, Ricardo Correia, Xiaoqiang Gu, Simon Hemour, Ke Wu, Alessandra Costanzo, Diego Masotti, Enrico Fazzini, Apostolos Georgiadis, Hooman Kazemi, Ricardo Pereira, Naoki Shinohara, Dominique Schreurs, Jung-Chih Chiao, Alexandru Takacs, Daniela Dragomirescu, and Nuno Borges Carvalho — "Radiative Wireless Power Transfer: Where we are and Where We Want to Go", *IEEE Microwave Magazine*, vol. 24, no. 2, pp. 57-79, February 2023

Valentina Palazzi

Valentina Palazzi is an Assistant professor at the Department of Engineering, University of Perugia, Perugia, Italy. She has co-authored more than 90 articles, and holds 3 patents. Her research interests include wireless sensors, radar front ends, wireless power transfer technologies, beamforming networks, additive manufacturing processes, and conformal electronics.

Dr. Palazzi is an elected member of the IEEE MTT-S Administrative Committee. She is the past chair (term 2022-2023) of the IEEE MTT-S Technical Committee- 26 "RFID, Wireless Sensor and IoT", and Early Career Representative of the URSI Commission D "Electronics and Photonics".

Ricardo Correia

Ricardo Correia obtained his M.Sc. degree in Electronics and Telecommunications Engineering and the PhD in Electrical Engineering at University of Aveiro in 2009 and 2019, respectively. He worked during almost five years as R&D Project Coordinator and also RF engineer on satellite communications at Sinuta SA. - Estarreja, Aveiro. Currently he is a researcher at STAR Institute and Professor at Instituto Politécnico de Viseu of embedded systems and computer architecture systems. His research interests include Industrial Internet of Things, embedded systems, wireless power transfer, energy harvesting, wireless passive sensors, low power communications, artificial intelligence applied in the industry. He is also senior collaborating researcher at the Radio Systems Group of Instituto de Telecomunicações (IT) de Aveiro and collaborating researcher at Centro de Investigação em Serviços Digitais (CISeD) of Instituto Politécnico de Viseu.

IEEE Microwave Magazine Best Paper Award

– CONTINUED –

Xiaoqiang Gu

Xiaoqiang Gu received the Ph.D. in Electrical Engineering from Polytechnique Montréal, Montréal, QC, Canada, in 2020. He is currently a Lecturer at the University of Bristol, Bristol, UK. His research interests include energy-efficient emerging wireless technologies, wireless power harvesting, backscattering, and multi-functional transceivers. Dr. Gu is a member of the IEEE MTT-S TC-25 and TC-26. He was a recipient of the FRQ Postdoctoral Research Fellowship for 2022-2023, the URSI GASS Young Scientist in 2020, the IEEE MTT-S Graduate Fellowship Award in 2019, and the Best Student Paper Award at the IEEE MTT-S Wireless Power Transfer Conference (WPTC) in 2017.

Ke Wu

Dr. Ke Wu is Industrial Research Chair in Future Wireless Technologies and Professor of Electrical Engineering at Polytechnique Montréal, where he was Director of Poly-Grames Research Center. He has graduated 84 Ph.D. and 95 M.Sc. students, authored/co-authored 1500+ papers, contributed to numerous books/book chapters, and filed 90+ patents. He was the IMS2012 General Chair, the 2016 MTT-S President, the inaugural North-American representative in the EuMA General Assembly. A recipient of many awards and prizes, Dr. Wu is a Fellow of the IEEE, the Canadian Academy of Engineering, the Royal Society of Canada, and the German Academy of Science and Engineering.

IEEE Microwave Magazine Best Paper Award

– CONTINUED –

Alessandra Costanzo

Alessandra Costanzo is a Full Professor at the University of Bologna and an IEEE Fellow, recognized for her work in nonlinear electromagnetic co-design for RF and microwave circuits. Her research spans RF front-end design, active antenna systems, energy-autonomous wireless systems, RF energy harvesting, and wireless power transmission. She holds three international patents and has published over 300 peer-reviewed papers. Prof. Costanzo co-founded the EU COST Action IC1301 WiPE, chaired major conferences including EuMC 2022 and IMBioC 2024, and has held leadership roles within the IEEE. She serves on the Boards of Rai Way S.p.A. and EuMA.

Dominique Schreurs

Dominique Schreurs (Fellow, IEEE) received the M.Sc. and Ph.D. degrees in electronic engineering from KU Leuven, Belgium, where she is now a Full Professor. Her research interests include microwave/mmwave characterization and modeling of transistors, nonlinear circuits, and biological liquid samples, next to design for wireless power technologies and microwave biomedical applications.

Prof. Schreurs served as President of the IEEE Microwave Theory and Techniques Society (2018-2019). She was an Editor-in-Chief of the IEEE Transactions on Microwave Theory and Techniques, and also an MTT-S Distinguished Microwave Lecturer. She is a former President of the ARFTG organization and organizer of multiple ARFTG conferences.

IEEE Microwave Magazine Best Paper Award

– CONTINUED –

Jung-Chih Chiao

J.-C. CHIAO (M'04-SM'11-F'20) received his B.S. degree in the Electrical Engineering Department, National Taiwan University, M.S. and Ph.D. degrees in Electrical Engineering at California Institute of Technology. He was a Research Scientist in the Optical Networking Systems and Testbeds Group at Bell Communications Research; Assistant Professor of Electrical Engineering at University of Hawaii, Manoa; and Product Line Manager and Senior Technology Advisor with Chorum Technologies. Dr. Chiao was Janet and Mike Greene endowed Professor and Jenkins Garrett Professor of Electrical Engineering at the University of Texas – Arlington from 2002 to 2018. He is currently Mary and Richard Templeton Centennial Chair professor in Electrical and Computer Engineering at Southern Methodist University (SMU).

Dr. Chiao has been the chair of several international conferences including 2018 IEEE International Microwave Biomedical Conference (IMBioC), 2022 IEEE Sensors Conference, and 2024 IEEE Internet of Things Summit; and the technical program chair of 2019 IEEE International Wireless Symposium and 2021 IEEE Wireless Power Transfer Conference. He was the chair of the IEEE MTT-S Technical Committee 10 "Biological Effect and Medical Applications of RF and Microwave", and associate editor for IEEE Transactions on Microwave Theory and Techniques. He was the founding Editor-in-Chief for the IEEE Journal of Electromagnetics, RF, and Microwaves in Medicine and Biology. Currently, he is with the Editorial Board of IEEE Access, and Track Editor for IEEE Journal of Microwaves and IEEE Journal of Selected Areas in Sensors. Dr. Chiao has published and edited numerous peer-reviewed technical journal and conference papers, book chapters, proceedings and books. He holds 24 U.S. patents. His research works have been covered by media extensively including Forbes, National Geographic magazine, National Public Radio and CBS Henry Ford Innovation Nation.

Dr. Chiao was the recipient of Lockheed Martin Aeronautics Company Excellence in Engineering Teaching Award; Tech Titans Technology Innovator Award; Research in Medicine award in the Heroes of Healthcare; IEEE Region 5 Outstanding Engineering Educator award; IEEE Region 5 Excellent Performance award; IEEE MTT Distinguished Microwave Lecturer; IEEE Sensors Council Distinguished Lecturer; Pan Wen-Yuan Foundation Excellence in Research Award; and the Edith and Peter O'Donnell Award in Engineering by The Academy of Medicine, Engineering and Science of Texas. Dr. Chiao is a Fellow of IET, SPIE, IEEE, AIMBE and NAI.

IEEE Microwave Magazine Best Paper Award

– CONTINUED –

Naoki Shinohara

Naoki Shinohara received the B.E. degree in electronic engineering, the M.E. and Ph.D (Eng.) degrees in electrical engineering from Kyoto University, Japan, in 1991, 1993 and 1996, respectively. He was a research associate in Kyoto University from 1996. From 2010, he has been a professor in Kyoto University. He has been engaged in research on Solar Power Station/Satellite and Microwave Power Transmission system. He is a Fellow of IEEE and URSI, IEEE MTT-S elected AdCom member (2022-2027), IEEE MTT-S Technical Committee 25 former chair and member, etc. He was the recipient of the 2023 IEEE Journal of Microwaves Best Paper Award, and 2025 IEEE Microwave Magazine Best Paper Award.

Nuno Borges Carvalho

Nuno Borges Carvalho (S'97–M'00–SM'05-F'15) was born in Luanda, Angola, in 1972. He received his Diploma and Doctoral degrees in electronics and telecommunications engineering from the University of Aveiro, Aveiro, Portugal, in 1995 and 2000, respectively.

He is currently a Full Professor and a Senior Research Scientist with the Institute of Telecommunications, University of Aveiro, the director of the Department of Electronics, Telecommunications and Informatics at UA, and an IEEE Fellow. He coauthored Intermodulation in Microwave and Wireless Circuits (Artech House, 2003), Microwave and Wireless Measurement Techniques (Cambridge University Press, 2013), White Space Communication Technologies (Cambridge University Press, 2014) and Wireless Power Transmission for Sustainable Electronics (Wiley, 2020). He has been a reviewer and author of over 400 papers in magazines and conferences. He is the Editor in Chief of the Cambridge Wireless Power Transfer Journal, an associate editor of the IEEE Microwave Magazine, and former associate editor of the IEEE Transactions on Microwave Theory and Techniques and IET Microwaves Antennas and Propagation Journal.

He is the co-inventor of six patents. His main research interests include software-defined radio front- ends, backscatter communications, wireless power transmission, nonlinear distortion analysis, and measurements in microwave/wireless

IEEE Microwave Magazine Best Paper Award

– CONTINUED –

circuits and systems. He has been involved in the design of dedicated radios and systems for newly emerging wireless technologies.

Dr. Borges Carvalho is a member of the IEEE MTT ADCOM, the past chair of the IEEE Portuguese Section, TC-20 and TC-11, and also belongs to the technical committees, TC-25 and TC-26. He is also the Chair of the URSI Commission A (Metrology Group). He was the recipient of the 1995 University of Aveiro and the Portuguese Engineering Association Prize for the best 1995 student at the University of Aveiro, the 1998 Student Paper Competition (Third Place) of the IEEE Microwave Theory and Techniques Society (IEEE MTT-S) International Microwave Symposium (IMS), and the 2000 IEE Measurement Prize.

He is a Distinguished Lecturer for the RFID Council and was a previous Distinguished Microwave Lecturer for the IEEE Microwave Theory and Techniques Society. In 2023 he was the IEEE-MTT President.

Simon Hemour, Diego Masotti, Enrico Fazzini, Apostolos Georgiadis, Hooman Kazemi, Ricardo Pereira, Alexandru Takacs, Daniela Dragomirescu

No photo or bio available at time of publication.