

IEEE Microwave Magazine Best Paper Award

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in a paper published in the IEEE Microwave Magazine.*

The 2023 IEEE Microwave Magazine Best Paper Award is awarded to Roberto Quaglia, Jingzhou Pang, Steven C. Cripps and Anding Zhu for the paper entitled “Load-Modulated Balance Amplifier: From First Invention to Recent Development” IEEE Magazine vol. 23, no. 12, pp 60-70, Dec 2022



Roberto Quaglia

Roberto Quaglia was born in Casale Monferrato, Italy, in 1984. He graduated in Electronic Engineering from Politecnico di Torino, Italy, where he also pursued his PhD, completed in 2012.

In 2015, he joined Cardiff University as a Marie Skłodowska Curie Fellow, and became a Lecturer in 2017 at the School of Engineering.

He is now a Senior Lecturer at Cardiff University, working on high frequency power amplifier design, modeling and characterization.



Jingzhou Pang

Jingzhou Pang received the B.S. degree in electrical engineering and Ph. D. degree in circuits and systems from University of Electronic Science and Technology of China (UESTC), Chengdu, China, in 2010 and 2016, respectively.

From December 2016 to July 2018, he was with Huawei Technologies Company Ltd., Chengdu, China, where he was an Engineer in charge of the research and development of 5G high-efficiency power amplifiers and transmitters. From July 2018 to August 2020, he was with the RF and Microwave Research Group, University College Dublin (UCD), Dublin, Ireland, where he was a Research Fellow in charge of the research of novel broadband transmitter architectures and radio frequency (RF)/microwave/mm-wave monolithic microwave integrated circuit (MMIC) power amplifiers. He is currently an Associate Professor with the School of Microelectronics and Communication Engineering, Chongqing University, Chongqing, China. His research interests include broadband high-efficiency power amplifier systems, bandwidth extension techniques for high-efficiency transmitters, and MMIC power amplifier design for RF/microwave and millimeter-wave applications.

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Steven C. Cripps

Steven Cripps is a microwave engineer and has spent over 40 years working in the high frequency electronic industry, both in the UK and 15 years in the USA. After completing his Ph.D at Cambridge he joined the pioneering group at Plessey Research Labs (Caswell) which developed the first commercially available Gallium Arsenide Field Effect (GaAsFET) transistors. After establishing a pilot commercial low noise GaAs amplifier operation he was recruited by Watkins Johnson in California, to join their broadband military ECM amplifier group. During the subsequent 15 years in California he became a recognized authority on microwave power amplifier design, publishing numerous papers through the I.E.E.E and authoring several books on this subject. He returned to the UK in 1996 and acted as an independent consultant in the burgeoning mobile communications sector. He also started his association with the Cardiff University CHFE group, building up a research activity in novel power amplifier techniques. He is a Life Fellow of the I.E.E.E.



Anding Zhu

Anding Zhu received the Ph.D. degree in electronic engineering from University College Dublin (UCD), Dublin, Ireland, in 2004. He is currently a Professor with the School of Electrical and Electronic Engineering at UCD. His research interests include high-frequency nonlinear system modeling and device characterization techniques, high-efficiency power amplifier design, and nonlinear system identification algorithms. He has published more than 200 peer-reviewed journal and conference articles. Prof. Zhu is an IEEE Fellow. He serves as an Elected Member of Administrative Committee of IEEE Microwave Theory and Technology Society (MTT-S) since 2019 and is currently the Chair of the Technical Coordination and Future Directions Committee. Prof. Zhu was a recipient of 2021 IEEE MTT-S Microwave Prize and served as a Track Editor of IEEE Transactions on Microwave Theory and Techniques in 2020-2022.