

Microwave Prize

Recognizes, on an annual basis, the most significant contribution by a published paper to the field of interest of the MTT-S. The Microwave Prize is the Society's oldest Award.

The 2023 Microwave Prize is awarded to W. Ahmad, M. Kucharski, A. Ergintav, S. Abouzaid, J. Wessel, H. Jalli Ng and D. Kissinger for their paper entitled "*Multimode W-Band and D-Band MIMO Scalable Radar Platform*," IEEE Transactions on Microwave Theory and Techniques, Vol. 69, Issue: 1, pp. 1036-1047, January 2021.

Wael Abdullah Ahmad, Maciej Kucharski, Arzu Ergintav, Salah Abouzaid, Jan Wessel, Herman Jalli Ng, Dietmar Kissinger



Wael Abdullah Ahmad

Wael Abdullah Ahmad received the B.Sc. and M.Sc. degrees in electronics engineering and electrical communication from Ain Shams University, Cairo, Egypt, in 2007 and 2012, respectively. From 2008 to 2016, he worked in Egypt on the development of RF/microwave high-power amplifiers and microwave modules in sub-6 GHz and C-band. He has also been a consultant on RFIC designs. From 2016 to 2021, he joined the mmWave Wireless Group of IHP in Frankfurt, Germany, as a Radar Research Scientist and mmWave IC Designer where he pursues his Ph.D. degree in mmWave BiCMOS radar sensors and integrated antenna technologies in conjunction with the Technical University of Berlin. From late 2021, Wael joined Keysight Labs' mmWave Subsystems Design Group addressing 5G, 6G, Automotive Radar and Aero/Defense applications. Wael's current research interests include microwave/mmWave circuits and systems, radar and wireless sensing, MIMO and phased arrays, power amplifiers, interconnection and antenna technologies. He has authored or co-authored tens of publications in his areas of interests and his research work was acknowledged by several international awards. Furthermore, he serves as a reviewer for several journals and conferences and has been an affiliate member of the IEEE MTT-S Microwave/mmWave Radar, Sensing and Array Systems technical committee MTT-24 since 2021, as well as an affiliate member of the IEEE MTT-S Young Professional Group since 2022.

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Maciej Kucharski

Maciej Kucharski received the B.Sc. degree from the Warsaw University of Technology, Warsaw, Poland, in 2012, the M.Sc. degree from the Technical University of Berlin, Berlin, Germany, in 2015, and the Ph.D. degree in electrical engineering from Ulm University, Ulm, Germany, in 2022. From 2014 to 2019, he was with IHP GmbH, Frankfurt (Oder), Germany, where he worked as an MMIC Designer focusing on high-resolution SiGe BiCMOS radar sensors. From 2019 to 2022, he was with SIRC, Rumia, Poland, where he developed integrated multi-band RF front-ends for radar and communication. In 2023, he joined OmniChip, Warsaw, Poland, as a Senior Analog IC Design Engineer.



Arzu Ergintav

Arzu Ergintav received her M.S. degree in Biomedical Engineering from Bogazici University Istanbul, Turkey in 2002. During 2000-2004, she worked as a design engineer at the Istanbul Design Center of Cypress Semiconductors, where she was involved in the design of CMOS ASICs, specifically frequency generator chips. Between 2005-2008, she was with the Sabanci University Istanbul as a research assistant. Her main focus was on multi-band VCO circuits in SiGe technologies for biomedical sensor applications. Since 2009, she is with the IHP, Frankfurt (Oder), Germany. Since then, she has been working on the design of mixed signal ICs in SiGe BiCMOS technologies for wireless communication systems. Her main research interests are design of frequency synthesizers for space applications and radar sensors.

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Salah Abouzaid

Salah Abouzaid was born in Egypt, in 1993. He received the B.Sc. degree in electrical engineering from the King Fahd University of Petroleum and Minerals (KFUPM), Dharan, Saudi Arabia, in 2017, and the M.Sc. degree in communications engineering from the Technical University of Munich (TUM), Munich, Germany, in 2020. In 2019, he worked in the LeibnizInstitut für innovative Mikroelektronik (IHP GmbH), Frankfurt (Oder), Germany, as a Scientific Assistant. Since 2021, he has been with the Institute of Integrated Systems, Ruhr University Bochum, where he is currently a Research Assistant. His current research interests include machine learning and radar signal processing.



Herman Jalli Ng

Herman Jalli Ng received the Dipl.-Ing.(FH) degree from Karlsruhe University of Applied Sciences, Germany in 2005, and the Ph.D. degree in mechatronics from Johannes Kepler University Linz, Austria, in 2014. He worked as IC designer at Bosch GmbH in Reutlingen and headed the mm-wave wireless research group at IHP Microelectronics. Since 2020, he is a full Professor at Karlsruhe University of Applied Sciences in Germany. He has authored and co authored more than 100 journal and conference articles. He received the 2018 VDE ITG-Prize and the 2019 APMC best paper award for his outstanding works on integrated mm-wave radar transceivers.

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Dietmar Kissinger

Dietmar Kissinger (SM'14) received the Dipl.-Ing., Dr.-Ing. and habil. degree in electrical engineering from FAU Erlangen-Nürnberg, Germany, in 2007, 2011 and 2014, respectively. He is currently a Full Professor for High-Frequency Circuit Design at Ulm University and the Head of the Institute of Electronic Devices and Circuits. His research interests include silicon high-frequency and high-speed integrated circuits and systems for communication and automotive, industrial, security and biomedical sensing applications. He has authored or co-authored over 400 technical papers and holds more than ten patents.

Jan Wessel

No photo or bio available at time of publication.