

Outstanding Young Engineer Award

Recognizes an outstanding young MTT-S member who has distinguished him/herself through achievement(s), which may be technical (within the MTT-S Field of Interest), may be exemplary service to the MTT-S, or may be a combination of both.



Vadim Issakov

(S'06, GSM'07, SM'16)

Infineon Technologies AG (Industry)

for outstanding early career contributions in the field of microwave and millimeter-wave integrated circuits and measurement.

Vadim Issakov received M.Sc. degree in microwave engineering from the TU Munich and Ph.D. degree from the University of Paderborn, Germany (summa cum laude) in 2006 and 2010, respectively. In March 2010 he joined Infineon in Neubiberg, Germany. Afterwards he worked at imec and Intel Corporation, before he came back to Infineon in August 2015 as a mm-wave Design Lead. He is a Principal Engineer leading a research group working on predevelopment of mm-wave radar and communication products.

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Harish Krishnaswamy

(S'03, M'09)

Columbia University (Academia)

for outstanding early career leadership and contributions in the field of millimeter-wave packaging and passive device characterization.

Harish Krishnaswamy (S'03–M'09) received the B.Tech. degree in electrical engineering from IIT Madras, Chennai, India, in 2001, and the M.S. and Ph.D. degrees in electrical engineering from the University of Southern California (USC), Los Angeles, CA, USA, in 2003 and 2009, respectively. In 2009, he joined the Electrical Engineering Department, Columbia University, New York, NY, USA, where he is currently an Associate Professor and the Director of the Columbia High-Speed and Millimeter-Wave IC Laboratory (CoSMIC).

In 2017, he co-founded MixComm Inc., a venture-backed startup, to commercialize CoSMIC Laboratory's advanced wireless research. His current research interests include integrated devices, circuits, and systems for a variety of RF, mmWave, and sub-mmWave applications.

Dr. Krishnaswamy was a recipient of the IEEE International Solid-State Circuits Conference Lewis Winner Award for Outstanding Paper in 2007, the Best Thesis in Experimental Research Award from the USC Viterbi School of Engineering in 2009, the Defense Advanced Research Projects Agency Young Faculty Award in 2011, the 2014 IBM Faculty Award, the Best Demo Award at the 2017 IEEE ISSCC, and Best Student Paper Awards (First Place) at the 2015 and 2018 IEEE Radio Frequency Integrated Circuits Symposium. He has been a member of the technical program committee of several conferences, including the IEEE International Solid-State Circuits Conference since 2015 and the IEEE Radio Frequency Integrated Circuits Symposium since 2013. He currently serves as a Distinguished Lecturer for the IEEE Solid-State Circuits Society and as a member of the DARPA Microelectronics Exploratory Council.

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Etienne Perret

(S'02, M'06, SM'13)

Grenoble Institute of Technology (Academia)

for outstanding early career contributions to chipless RF identification of objects in an unknown environment.

Etienne Perret (S'02–M'06–SM'13) received the Ph.D. degrees from the Toulouse Institute of Technology, France, in 2005, in electrical engineering. Since 2006, Dr. Perret is Associate Professor in electronic with the Grenoble Institute of Technology. Since 2014, he has been a Member with the Institut Universitaire de France, Paris, France. He has authored and co-authored of more than 200 technical conferences, letters and journal papers. He is Technical Program Committee member of several conferences especially in RFID. His current research interests include electromagnetic modeling of passive devices for millimeter and submillimeter-wave applications, and wireless communications, especially RFID and chipless RFID.

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Jeffrey Nanzer

(S'02, GSM'05, M'08, SM'14)

Michigan State University (Industry)

for outstanding early career contributions in distributed phased arrays and mm-wave photonic wireless systems.

Jeffrey Nanzer is the Dennis P. Nyquist Assistant Professor at Michigan State University. He received the Ph.D. degree in electrical engineering from the University of Texas at Austin in 2008. From 2009 to 2016 he was with The Johns Hopkins University Applied Physics Laboratory where he created and led the Advanced Microwave and Millimeter-Wave Technology group. He was the recipient of the DARPA Young Faculty Award in 2017 and the NSF CAREER Award in 2018. His research involves distributed antenna arrays, radar, remote sensing, microwave photonics, and electromagnetics.