

Editorial - Incoming EiC

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Editorial—Incoming EiC

DEAR colleagues, welcome to the first issue in Volume 13 of the IEEE TRANSACTIONS ON TERAHERTZ SCIENCE AND TECHNOLOGY (T-TST).

I would like to take the opportunity of this editorial to introduce myself. I have been appointed as the new Editor-in-Chief (EiC) for the next term. My name is Nuria Llombart, a full professor on quasi-optical systems in the Terahertz Sensing Group at the Technical University of Delft, Delft, The Netherlands. It all started when Peter H. Siegel founded this journal over ten years ago. I was then one of the Topical Editors. Being now the EiC after these many years feels a great honor but also a big responsibility. Many people has worked extremely hard and has devoted countless hours to this journal. I feel obliged to thank them and the MTT-S Adcom for their trust. I can assure you that I will do my best to keep the high-quality standards of the T-TST.

As rightfully pointed out by Imran Mehdi in his last editorial [1], the T-TST is a stable IEEE publication and it is doing very well within the THz community. This is due to the effort of the previous T-TST EiC and their editorial boards. I feel in need to say a few words to thank them: thanks Peter H. Siegel, the Founding Editor of T-TST, for connecting the diverse THz community into a single IEEE publication and your great enthusiasm and incredible effort during the process [2], thanks Jan Stake for your great efforts improving further the quality of the review process by renovating the editorial board structure [3], and thanks Imran Mehdi for your efforts in navigating successfully the T-TST through the extremely complicated time that hit the whole world during the COVID pandemic, and for converting the T-TST into a hybrid publication accordingly to the open access era.

From this moment on, I will be the EiC of the T-TST journal, an incredible task that I will not be able to do alone. Fortunately I will have by my side the invaluable support of the T-TST editorial board. You already know most of them from the previous term and I am very grateful that they continue to serve our T-TST

journal. For 2023, I would like to welcome our new additions: Prof. Sascha Preu, Prof. Andrea Neto, and Dr. Adrian Tang. You can find the short biographies of the new members at the end of this editorial. I would also like to mention that Ms. Sharri Shaw will continue to be our Editorial Administrator. Ms. Sharri Shaw has been with the T-TST since its origins and she is without any doubt the person with more experience in the T-TST reviewing process.

To conclude, I would like to remind us that the success of our T-TST journal is strongly correlated to its service to the THz community. For this, the T-TST must continue to publish high-quality papers in a wide range of subtopics related to THz science and technology. By doing so, authors and researchers will continue to consider the T-TST journal as the best venue to share and read about the latest developments in the THz field. During my term, I will be committed to continue the path initiated by our previous EiC by serving the entire worldwide THz community. My main purpose is to continue the T-TST role of disseminating high-quality papers and be the preferred publication venue for THz scientists and technologists. During this time, I am available to any of you for feedback and ideas on how to improve the journal. Please do not hesitate to contact me.

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Nuria Llombart (Fellow, IEEE) received the master's degree in electrical engineering and the Ph.D. degree from the Polytechnic University of Valencia, Valencia, Spain, in 2002 and 2006, respectively.

During her master's degree studies, she spent one year with the Friedrich-Alexander-University of Erlangen-Nuremberg, Erlangen, Germany, and was with the Fraunhofer Institute for Integrated Circuits, Erlangen, Germany. From 2002 to 2007, she was with the Antenna Group, TNO Defense, Security and Safety Institute, The Hague, The Netherlands, working as a Ph.D. Student and afterward as a Researcher. From 2007 to 2010, she was a Postdoctoral Fellow with the California Institute of Technology, working with the Submillimeter Wave Advance Technology Group, Jet Propulsion Laboratory, Pasadena, CA, USA. From 2010 to 2012, she was a "Ramón y Cajal" Fellow with Optics Department, Complutense University of Madrid, Madrid, Spain. In September 2012, she joined the THz Sensing Group, Technical University of Delft, Delft, The Netherlands, where she is currently a Full Professor as of February 2018.



Sascha Preu received the diploma degree in 2005 and the Ph.D. degree in physics (summa cum laude) from the Friedrich-Alexander-University Erlangen-Nuremberg, Erlangen, Germany, in 2009.

From 2004 to 2010, he was with the Max Planck Institute for the Science of Light, Erlangen, Germany. From 2010 to 2011, he was with Materials Department and Physics Department, University of California, Santa Barbara, Santa Barbara, CA, USA. From 2011 to 2014, he was with the Chair of Applied Physics, University Erlangen-Nuremberg, Erlangen, Germany. He is currently a Full Professor with the Department of Electrical Engineering and Information Technology, Technical University of Darmstadt, Darmstadt, Germany, leading the Terahertz Devices and Systems Laboratory. His research interests include the development of semiconductor-based terahertz sources and detectors, including photomixers, photoconductors, and field effect transistor rectifiers as well as terahertz systems constructed thereof. He also works on the applications of terahertz radiation, in particular, the characterization of novel terahertz components and materials.

Dr. Preu was the recipient of the ERC Starting Grant for developing ultra-broadband, photonic terahertz signal analyzers in 2017 and ERC Proof of Concept Grant for further developing photonic Terahertz spectrum analyzers.



Andrea Neto (Fellow, IEEE) received the Laurea degree (summa cum laude) in electronic engineering from the University of Florence, Florence, Italy, in 1994, and the Ph.D. degree in electromagnetics from the University of Siena, Siena, Italy, in 2000.

During his Ph.D., he was also with the Antenna Section, European Space Agency, formore than two years. In 1999–2001, he was also a Postdoctoral Researcher with JPL's the Sub-Millimeter-Wave Advanced Technology Group, Pasadena, CA, USA. From 2002 to 2010, he was a Senior Antenna Scientist with TNO Defense, Security, and Safety, The Hague, The Netherlands. In 2010, he became a Full Professor of applied electromagnetism with the Technical University of Delft, Delft, The Netherlands. His current research interests include the analysis and design of antennas with an emphasis on arrays, dielectric lens antennas, and high-frequency antennas.

Dr. Neto was the recipient of the European Research Council Starting Grant to perform research on advanced antenna architectures for THz sensing systems in 2011. This grant jump started the THz Sensing Group that he still leads.



Adrian Tang has more than 20 years of CMOS system-on-chip design experience and currently directs the space system-on-chip program at NASA's Jet Propulsion Laboratory, Pasadena, CA, USA. He is currently leading the development of a wide range of CMOS SoC chipsets for the exploration of Earth, the solar system, and space at wavelengths from microwave to Terahertz.