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2018 IEEE Radio and Antenna Days of the Indian Ocean (IEEE RADIO 2018)

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EDITOR S FOREWORD

The 2018 edition of the IEEE Radio and Antenna Days of the Indian Ocean (IEEE RADIO 2018) international conference was hosted once again in Mauritius, the country where the first three editions of the conference were organized in 2012, 2014 and 2015. Dr. Arjoon Suddhoo, Executive Director of the Mauritius Research Council (MRC), officially opened this sixth edition of the conference that was held from 15th to 18th October 2018 at the Hilton Resort & Spa, Wolmar, Mauritius. The conference was managed by the Radio Society (Mauritius) and financially sponsored by the IEEE Antennas and Propagation Society (AP-S). IEEE RADIO 2018 was technically co-sponsored by IEEE Region 8 and Union Radio Scientifique Internationale (URSI). Researchers from CentraleSupélec, France, University of Mauritius and Université de La Réunion formed the local organizing committee.

Participants from over twenty different countries spanning all five continents attended IEEE RADIO 2018. The conference featured fourteen regular sessions covering diverse topics such as antenna design, devices and circuits, wave propagation and scattering, wireless communication systems, computational electromagnetics, and biological effects of electromagnetic fields. A tutorial on computational electromagnetics was proposed on Monday morning. During the opening ceremony, the IEEE Ulrich L. Rohde Humanitarian Technical Field Project Award was presented to IEEE Special Interest Group on Humanitarian Technology (SIGHT) Indian Ocean for the Agriculture, Climate and Technology in Indian Ocean Network (ACTION) project. Moreover, a SIGHT Event was organized on Monday afternoon during which representatives from different IEEE SIGHT Groups presented their humanitarian activities and projects. Three internationally recognized scientists delivered invited talks during the conference.

A jury evaluated the oral presentations of students and young scientists. The Best Young Scientist less than 36 years old received a shield and a cash prize of 300 Euros. The first, second and third Best Student Papers were awarded shields and cash prizes of 300 Euros, 200 Euros and 100 Euros, respectively. The inaugural Industrial Engineering Paper Award, consisting of a shield and a cash prize of 300 Euros, was presented to the author of the paper presenting the most innovative and significant contribution in terms of practical industrial engineering related to the fields of antennas, electromagnetics and propagation.

The 2-page short papers presented during the conference have already been published on the IEEE Xplore Digital Library. After the conference, the authors of the accepted and presented papers were invited to submit an extended version (limited to a maximum of 4 pages) for publication as a volume in the IoP Conference Series: Materials and Engineering (MSE). Eighteen papers were submitted. After the peer-review process by the distinguished members of the Scientific Committee, only nine papers were accepted and published in this volume of IoP Conference Series: MSE.

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