



## Dr. Nelson J. G. Fonseca

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**Dr. Nelson J. G. Fonseca** (M'06, SM'09) was born in Ovar, Portugal, in 1979. He received the M.Eng. degree from Ecole Nationale Supérieure d'Electrotechnique, Electronique, Informatique, Hydraulique et Télécommunications (ENSEEIH), Toulouse, France, in 2003, the M.Sc. degree from the Ecole Polytechnique de Montreal, Quebec, Canada, also in 2003, and the PhD degree from Institut National Polytechnique de Toulouse – Université de Toulouse, France, in 2010, all in electrical engineering.

He worked as an Antenna Engineer successively with the Department of Antenna Studies, Alcatel Alénia Space (now Thalès Alénia Space – France), and also with the Antenna Section, French Space Agency (CNES), Toulouse, France, where he completed his PhD degree in parallel of his professional activities. In 2009, he joined the Antenna and Sub-Millimetre Wave Section, European Space Agency (ESA), Noordwijk, Netherlands. He has authored or co-authored more than 160 papers in peer-reviewed journals, conferences and specialized workshops, including 20 IEEE Transaction papers. He contributed to 18 technical innovations, protected by over 30 patents issued or pending. His current research interests include multiple beam antennas for space missions, beam-formers theory and design, user terminal antennas and novel manufacturing techniques.

Dr. Fonseca was a board member of the CNES Network of Experts (CNES' CCT) on Electromagnetic and Microwave Circuit from 2006 to 2009. He is serving or served as a TPC member in several conferences, chaired the 38th ESA Antenna workshop on Innovative Antenna Systems and Technologies for Future Space Missions, October 2017 and is co-chair of the upcoming IET Loughborough Antennas & Propagation conference (LAPC 2018). He served or is currently serving as a technical reviewer for several journals, including the IEEE Transactions on Antennas and Propagation (TAP), the IEEE Transactions on Microwave Theory and Techniques (TMTT) and the IET Microwaves, Antennas and Propagation. He received several prizes including the Best Young Engineer paper award at the 29th ESA Workshop on Antennas in 2007, as well as ESA Technical Improvement Awards in 2015 and 2017. He was the recipient of the IEEE Antennas and Propagation Society Commendation Certificate recognizing the exceptional performance of a reviewer for the IEEE Transactions on Antennas and Propagation in 2016.