

Maria Angeles MARTIN PRATS



"#AeroDays2020 will give us the opportunity to share a strategic vision for the future. Reflections that should lead us to act to provoke a change in the productive system and in the way of conceiving life. Technology and values play a crucial role. The concept of Power Optimized More electric aircraft, which include new electrical architectures, new sensors and actuators and powerful microprocessors that implement complex algorithms in real time in parallel, will help to achieve the objectives of the Green Deal in aviation more quickly. Current trends are to replace human operations with more secure, autonomous and automatic operations, analog devices with digital devices, hardware with software and secure communications".

Maria Angeles Martin Prats was born in Seville in 1971. She is Associate Professor at the Electronics Engineering Department of the University of Seville since January 2009. Researcher of the Electronics Technology Group TIC- 109 since 1996 and Head of the Avionics research group since 2003.

1996-1998, Research Internship in the National Institute of Aerospace Techniques (INTA), carrying out her activity in the Department of Energy and Fuel Cells.

1998-2000, she was lecturer at the Department of Electrical Engineering of the University of Huelva.

Since 2000 she is lecturer in the Department of Electronics Engineering of the University of Seville.

Her works are mainly focused on avionics and power electronics systems for aeronautics and defense applications. She has taken part in more than 70 industrial and research projects. So far, she has been responsible of 42 aeronautics projects with technology transfer to industry.

She has been granted by Ministerio de Educación y Ciencia (Ministry of Education and Science) as invited researcher in Bombardier Aerospace (Montreal) since 01/06/2007 until 31/12/2007.

She has numerous publications in prestigious international journals and many national and international conference proceedings. She has got a high number of citations of her papers ($h=20$, 8476 citations to her research works), awards to the best paper and recognition of IEEE TIE (Institute of Electrical and Electronic Engineers, Transactions on Industrial Engineering journal) to the most referenced paper. Since 2011 she is a Senior Member of IEEE.

Main founder of a Spin Off of University of Seville, Skylife Engineering, created in May 2011. The activity is focused on the application of new electronics technologies and advanced design techniques to the development of systems for Aerospace applications.

Chair of the Spanish technical chapter IEEE Aerospace and Electronics Systems since June 2009 until 2013. Chair of the Spanish chapter WIE (Women In Engineering) of IEEE since January 2006 until July 2011.

Coordinator of the Pegasus European Aerospace Network of Excellence (www.pegasus-europe.org) of the School of Engineering of the University of Seville since 2008, Vice-President and Member of the Pegasus Board since April 2011 until 2019.

Vice-Dean of External Relations of the ETSI US since February 2007 until 2019. Member of Clean Sky Academy working group since October 2017 until 2018. Member of the Scientific Committee of CS2 JU since 2018 until May 2019. Member of ACARE since 2016. Coordinator of European Universities and Research Centers of the GNC Chapter of EDA.