Biography:

Dr. De Los Santos received the Ph.D. degree from the School of Electrical Engineering, Purdue University, West Lafayette, IN, in 1989. From 2010 to 2011, he was a German Research Foundation (DFG) Mercator Visiting Professor at the Karlsruhe Institute of Technology/University of Karlsruhe, Germany, on leave from NanoMEMS Research, LLC, Irvine, CA. Prior to founding NanoMEMS in 2002, he spent two years as Principal Scientist at Coventor, Inc., Irvine, CA, and eleven years at Hughes Space and Communications Company, Los Angeles, CA, where he served as Principal Investigator and Director of the Future Enabling Technologies IR&D Program. Under this program he pursued research in the areas of RF MEMS, Quantum Functional Devices and Circuits, and Photonic Bandgap Devices and Circuits. He holds over 20 US and European patents, and is author of bestseller textbooks, including *Introduction to Microelectromechanical (MEM) Microwave Systems* (1999), now in Artech House' IPF® (In-Print-Forever®) series, and *RF MEMS Circuit Design for Wireless Communications* (2001). His most recent book, *Principles and Applications of NanoMEMS Physics*, was published by Springer in 2005. His current research interests include, discovery, conception, theory, physics, computational modeling, simulation, analysis, design and applications (electronics, microwave and mm-waves, photonics, etc.) of devices and circuits enabled by exploiting physical phenomena occurring down to nanometer length scales, including, plasmonics, photonic crystals, RF MEMS, and mechanical systems in the quantum regime. Since 2006 he has been an IEEE Distinguished Lecturer of the Electron Devices Society. He is an IEEE Fellow.