Professor Miguel A. F. Sanjuan

Foreign Member of the Lithuanian Academy of Sciences since 2008

Miguel Angel Fernández Sanjuán (Miguel A. F. Sanjuán) is a Spanish Theoretical Physicist from Leon, Spain. He is known for his contributions in nonlinear dynamics, chaos theory, and control of chaos. He was born 30 of October, 1959 in Leon, Spain.

Education

Degree in physics, Speciality of General Physics, university of Valladolid, 1976–1981
Master's degree in Physics, Master thesis: Anisotropic contractions of the Poincare group, Universidad de Valladolid, 28 of November of 1981
PhD Degree in Physics: Contribution to the analytical study of some properties of nonlinear oscillators, Universidad National de Education a Distancia, Madrid, 24 of September 1990.

Present and Previous Positions

2017–2018 Fulbright Visiting Research Scholar, Institute for Physical Science and Technology, University of Maryland, USA
2010–2011 Visiting Research Professor, Beijing Jiaotong University, Beijing, China
2002–Full Professor of Physics, Universidad Rey Juan Carlos, Madrid, Spain
2016–Professor, Department of Applied Informatics, Kaunas University of Technology, Kaunas, Lithuania
1997–2002 Associate Professor of Physics, Universidad Rey Juan Carlos, Madrid, Spain
1986–1997 Associate, Assistant and Lecturer of Physics, Universidad Politécnica de Madrid, Madrid, Spain
1995–1996 Visiting Research Associate, Institute for Physical Science and Technology, University of Maryland, USA
1984–Wissenschaftliche Mitarbeiter, Institut für Dynamischen Systemen, Universität Bremen, Germany
1984–1986 Predoctoral Researcher, Universidad Nacional de Educación a Distancia, Madrid, Spain
1982–1984 Teaching Assistant, Universidad de Valladolid

Fields of Scholarship

Nonlinear dynamics and chaos in dynamical systems
Control of chaos
Chaotic dynamics of nonlinear oscillators
Modelling and physics of cancer
Nonlinear resonances: vibrational resonance and stochastic resonance
Dynamical systems with delay
Map-based neuron models
Fractal structures in nonlinear dynamics: fractal basins, Wada basins, basin entropy
Chaotic scattering in Hamiltonian Systems
Dynamical modelling in biology: ecology, neurodynamics

Honours and Awards

2017 Fulbright Visiting Scholar , University of Maryland at College Park, USA
2016 Guest Honorary Professor, Zigong University of Science and Technology, Zigong, China
2016 Research Excellence Award in category of Sciences, Universidad Rey Juan Carlos, Madrid, Spain
2015 Corresponding Member of the Spanish Royal Academy of Sciences, section Physics and Chemistry, Madrid, Spain
2012–2015 Guest Professor in the Institute of Computational Physics and Complex Systems of Lanzhou University, China
2011 Diploma for the continuity in the activities of the Blog Complexity, Government of Madrid.
2008 Foreign Member of the Lithuanian Academy of Sciences (Physics and Mechanical Engineering), Vilnius, Lithuania
1982 Outstanding Graduation Honor, Universidad de Valladolid, Valladolid, Spain

Full list of publications

https://www.ae-info.org/ae/Member/Sanjuan_Miguel_Angel/Publications