

Short CV

Luigi Fortuna was born in Siracuse (ITALY) on 1953. He received the degree of Electrical Engineering (cum laudae) from the University of Catania on 1977. He was researcher in Electronics up to 1987 when he became Associate Professor of Automatic Control. In that a period he was more time visiting researcher at the JET (Joint European Torus) in Abington (UK) where he worked in the design of control apparatus of the JET machine.

Since 1994 he is Full Professor of System Theory. He now teaches the following courses : System Theory, Adaptive Systems, Biomedical Engineering.

He has published more than 400 technical papers, is coauthor of nine scientific books among which: Soft Sensors for Monitoring and Control of Industrial Processes (Springer 2007), Soft- Computing (Springer 2001), Nonlinear Non Integer Order Circuits and Systems (World Scientific 2001), Cellular Neural Networks (Springer 1999) ,Neural Networks in Multidimensional Domains (Springer 1998), Model Order Reduction in Electrical Engineering (Springer 1994), Robust Control - An Introduction (Springer 1993) and with other researchers is the author of 12 patents.

His scientific interests include: Robust Control, Nonlinear Science and Complexity, Chaos, Cellular Neural Networks, Soft-Computing Strategies for Control. Robotics, Micro - Nanosensor and Smart Devices for Control, Nano-Cellular Neural Networks Modelling.

He is the coordinator of the PHD courses in Electronic Engineering.

He is for the current year in charge for project of MURST with University of San Diego California for an educational program including Graduate and Undergraduate students.

He is responsible for the University of Catania of two EU projects: Clawar (Climbing and Walking Robots) and DICTAM (Dynamic Image Computing using Tera- Speed Analogic Visual Microprocessors).

He had a contract with Joint European Torus (EURATOM) (Abington- UK) for the period 1/1/98-31/12/98 for the use of Intelligent Techniques in Fault Pulse Validation, until now has a contract with ENEA (Frascati) to develop a project in the area of Plasma Control.

He is until now responsible of two projects supported by Italian Spatial Agency: one on the Maars Mission and the other one on Multifunctional Modular Robotic Platforms.

He is the coordinator of the project FIRB RBNE01CW3M_001 "Cellular Self-organizing nets and chaotic nonlinear dynamics to model and control complex systems" (2002-2005).

He is Fellow of the IEEE CAS Society, IEEE CAS Chairman of the CNN Technical Committee, IEEE CAS Distinguishing Lectures 2001-2002, IEEE Chairman of the IEEE CAS Chapter Central- South ITALY.

He served as Associate Editor the IEEE Trans. CAS for the period from July 1997 to June 1999.

He was the general chairman of the IEEE- CNNA2000 and IEEE- NDES2000 conferences.

He served IEEE CAS Magazine as Member of the Editorial Board.

He is serving as Editorial Board Member the following journals: International Journal of Chaos and Bifurcations, Nonlinear Dynamics in Complex Phenomena, Nonlinear Biomedical Physics, IEEE CAS Letters.

Prof. Fortuna coordinates the activities of various Research Consortiums among Companies and the University of Catania. Particular contribution has been given by prof. Fortuna to the cooperation with ST Microelectronics Company in the field of Fuzzy Logic Controller Design and in the area of Soft- Computing and Multimedia Applications, in the area of Nonlinear Circuits.

Prof. Fortuna is coauthors of 12 Industrial Patents. He has been is in charge of several R&D projects with industrial partners italian, EU and USA universities. He has been scientific responsible for the next six years of the South Italy Innovation Relay Centers supported by EU.

He has been in the Evaluation Board of Politecnico di Bari (1999/2000) and of the Evaluation Board of the Università degli Studi di Catania (2000/2006).

From 2002 to 2005 he was in charge as Chair of the Department of Electrical Electronics and System Engineering.

Since november 2005 he is the Dean of the Engineering Faculty of the University of Catania.

Recent publications

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