

CURRICULUM VITAE

Professor Josep Tornero was born in Valencia, Spain in 1956. He received his B.Sc. and his Ph.D. in Electrical Engineering at the Technical University of Valencia in 1978 and 1985 respectively. He obtained the M.Sc. Degree in Systems and Control from the University of Manchester, Institute of Science and Technology in 1982. In 1986, he became Associate Professor and, since 1993, he has been Full Professor of the Department of Systems Engineering and Control at the Computer Science Faculty in the Polytechnic University of Valencia.

For two years (1981-1983), he was Visiting Researcher at the Control Systems Center of the University of Manchester, Institute of Science and Technology (UMIST). During 1990, he spent nine months as Visiting Researcher at the NASA Center for Intelligent Robotics Systems for Space Exploration (CIRSSE), Rensselaer Polytechnic Institute, Troy, New York, USA. During 1999, he spent nine months as Visiting Professor at Department of Mechanical Engineering, University of California at Berkeley, USA.

In 1984, he was appointed Vice Director of the Computer Science Faculty, in addition to being Head of Studies from 1985 to 1989. From 1992 to 1993, he was appointed Vice Dean of the same Faculty. In 1994, Professor Tornero was appointed the Secretary General (Registrar) of the Technical University of Valencia, and from 1995 to 1996 Vice Chancellor of the same University. Now he is Director of Institute of Design and Manufacturing at the same University.

He is Director of the post-graduate course, Master of Science in Computer Aided Design (CAD), Computer Aided Manufacturing (CAM) and Computer Integrated Manufacturing (CIM), in progress since 1988.

Professor Tornero carries out research on robotics and automation, particularly interested in three topics: collision detection and avoidance, automatic trajectory generation, and control for robot arms and mobile robots. He is also conducting research on multirate sampled data systems in the aspects of modeling, analysis and control design.

He has given lectures, seminars and presented many papers in control topics such as multi-rate sampled data systems, digital control and periodic systems, as well as robotics topics such as modeling, collision checking and avoidance, path planning, automatic generation of trajectories and control architectures.

He has experience in teaching Digital Control, Computer Control and Robotic, in general. But also other topics such as Signal Processing, Optimization Techniques and Optimal Control.

Member of IEEE, IFAC, DECUS and from 1993 to 1995 was elected member of the Spanish Robotic Association Board.

He has participated in European research projects such as ESPRIT, BRITE, EUREKA and STRIDE, and in educational projects as ERAMUS, INTERCAMPUS, ALPHAS and TEMPUS.

He is fluent in English, understands French, likes gardening, music, and regularly practices sports such as jogging, cycling and swimming.

Professor Tornero is married with two children.

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Josep Tornero was born in Valencia, Spain in 1956. He received in 1982 the M.Sc. Degree in Systems and Control from the University of Manchester, Institute of Science and Technology and in 1985 the Ph.D. in Electrical Engineering at the Technical University of Valencia, where he is now Professor with the Department of System Engineering and Control. He has been Visiting Researcher at the CIRSSSE (NASA Center for Intelligent Systems for Space Explorations, Rensselaer Polytechnic Institute, Troy, New York

during 1990 and Visiting Professor at the Department of Mechanical Engineering, University of California at Berkeley during 1999. Professor Tornero is responsible for the Robotics Group, mainly concerned with the integration, programming, control, simulation and management of robot arms and auto-guided-vehicles (AGVs). He is particularly interested in three topics: collision detection and avoidance, automatic trajectory generation, and robot control. He is also doing research on multirate sampled data systems in the aspects of modeling, analysis and control design. He has participated in many European research projects such as ESPRIT, BRITE, EUREKA and STRIDE, and in educational projects as ERAMUS, INTERCAMPUS, ALPHAS and TEMPUS. He is a Member of the Institute of Electric and Electronics Engineers (IEEE) and International Federation of Automatic Control (IFAC). Now he is also the Director of the Design and Manufacturing Research Institute at the Technical University of Valencia and an Enterprise Association involving the same topics.