

Europass Curriculum Vitae



Personal information

First name / Surname
Address(es)
Telephone(s)
Fax(es)
E-mail
Nationality
Date of birth
Gender

Biography

Gianni Ferretti

30, Viale Trento e Trieste, 26100, Cremona, Italy +39 02 2399 3682 (7745) +39 02 2399 3412 (7701) gianni.ferretti@polimi.it Italian 20/12/1962 Male

Gianni Ferretti was born in Cremona (Italy) in 1962. He received the 'Laurea' degree in Electronics Engineering in 1987 from Politecnico di Milano. From 1990 to 1998 he was Assistant Professor at the Department of Electronics and Computer Science of Politecnico di Milano and in 1994 he was a visiting researcher at the Laboratoire d'Automatique de Grenoble. From 1998 to 2005 he was Associate Professor at Politecnico di Milano where he is currently Full Professor in Systems and Control. He is Vice Rector for the Cremona campus of Politecnico di Milano and teaches Fundamentals of Automatic Control, Digital Controls and Simulation Techniques and Tools. His principal research interests are: control of servomechanisms, modelling and simulation of mechatronic systems, force/position control of robots, modelling and simulation of automotive systems, modelling and control of biogas power plants. He is coauthor of more than 100 papers, most of which published in international journals or presented in international conferences, and was involved in many research projects with industries and institutions.

Work experience

1/9/2005 - Today

Dates Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector

Full Professor of Automatic Controls - Vice Rector of the Cremona Campus of Politecnico di Milano Research and Teaching Politecnico di Milano - 32, Piazza L. Da Vinci, 20133, Milan, Italy University

Dates

Dates

Occupation or position held Main activities and responsibilities Name and address of employer Type of business or sector 30/10/1998 - 31/8/2005 Associate Professor of Automatic Controls Research and Teaching Politecnico di Milano - 32, Piazza L. Da Vinci, 20133, Milan, Italy University

1/6/1990 - 30/10/1998

Occupation or position held Assistant Professor of Automatic Controls Main activities and responsibilities Page 1/3 - Curriculum vitae of Gianni Ferretti

Research and Teaching For more information on Europass go to http://europass.cedefop.europa.eu © European Union, 2004-2010 24082010

Name and address of employer Type of business or sector

Dates Occupation or position held Main activities and responsibilities Name and address of employer

15/9/1994 - 15/12/1994 **Research Assistant** Research Laboratoire d'Automatique de Grenoble - Domaine Universitaire - BP46 Saint Martin d'Hères - Cedex, 38402, France University

Politecnico di Milano - 32, Piazza L. Da Vinci, 20133, Milan, Italy, University

Politecnico di Milano - 32, Piazza L. Da Vinci, 20133, Milan, Italy

Type of business or sector

Education and training

Dates Title of qualification awarded Principal subjects/occupational skills covered Name and type of organisation providing education and training

Personal skills and competences

Mother tongue(s)

Other language(s)									1	
Self-assessment		Understanding			Speaking				Writing	
European level (*)		Listening		Reading		Spoken interaction		Spoken production		
English	B2	Advanced	B2	Advanced	B2	Advanced	B2	Advanced	B2	Advanced
German	A2	Elementary	A2	Elementary	A2	Elementary	A2	Elementary	A2	Elementary
	(*) Common European Framework of Reference for Languages									
Organisational skills and competences	Direction of a University Campus Organization of scientific events									
Technical skills and competences	 Professional skills in the use and programming of computers and industrial robots, mainly acquired during research activities in the following fields: Modeling and control of anaerobic digestion processes for biogas production Object-oriented modeling of mechatronic systems Control of drives with elasticity, friction and torque disturbances Hybrid position/force control for industrial robots Modelling, control and simulation of thermohydraulic processes 									
Computer skills and competences	Opera Office Progr	ating systems: applications: I amming langua	Micros Micros ages:	soft Windows oft Word - Exc C, Fortran	el – Po	owerPoint - Ope	enOffi	се		

Process simulation environments and languages: Modelica, Dymola, Simulink Advanced control analysis: Matlab, Scilab, vxMaxima

University

5/11/1981 - 17/7/1987

Laurea Degree in Electronics Engineering

Automation, Electronics, Computer Science

Italian

Additional information

Selected publications	B. Scaglioni, L. Bascetta, M. Baur, G. Ferretti. Closed-form control oriented model of highly flexible manipulators. Applied Mathematical Modelling. Vol. 52, December 2017, pp. 174-185.
	L. Bascetta, G. Ferretti, B. Scaglioni. Closed form Newton–Euler dynamic model of flexible manipulators. Robotica. Vol. 35, No. 5, May 2017, pp. 1006–1030.
	A. V. Papadopoulos, L. Bascetta, G. Ferretti. Generation of human walking paths. Autonomous Robots. Vol. 40, No. 1, January 2016, pp. 59-75.
	A. Della Bona, G. Ferretti, E. Ficara, F. Malpei. LFT modelling and identification of anaerobic digestion. Control Engineering Practice. Vol. 36, March 2015, pp. 1-11.
	G. Ferretti, A. Leva, B. Scaglioni. Object-oriented modelling of general flexible multibody systems. Mathematical and Computer Modelling of Dynamical Systems. Vol. 20, No. 1, January 2014, pp. 1-22.
	L. Bascetta, G. Ferretti, G. Magnani, P. Rocco. Walk-through programming for robotic manipulators based on admittance control. Robotica. Vol. 31, No. 7, October 2013, pp. 1143-1153.
	F. Donida, G. Ferretti, S.M. Savaresi and M. Tanelli. Object-oriented modelling and simulation of a motorcycle. Mathematical and Computer Modelling of Dynamical Systems. Vol. 14, No. 2, April 2008, pp. 79–100.
	G. Ferretti, G. Magnani and P. Rocco. Single and multi-state integral friction models. IEEE Transactions on Automatic Control. Vol. 49, N° 12, December 2004, pp. 2292-2297.
	G. Ferretti, G. Magnani and P. Rocco. Virtual prototyping of mechatronic systems. IFAC Journal Annual Reviews in Control. Vol. 28, N° 2, 2004, pp. 193-206.
	G. Ferretti, G. Magnani and P. Rocco. Impedance control for elastic joints industrial manipulators. IEEE Transactions on Robotics & Automation. Vol. 20, N° 3, June 2004, pp. 488-498.
	G. Ferretti and L. Piroddi. Estimation of NOx emissions in thermal power plants using neural networks. ASME Journal of Engineering for Gas Turbines and Power. Vol. 123, N° 2, April 2001, pp. 465-471.
	G. Ferretti, S. Filippi, C. Maffezzoni, G. Magnani, and P. Rocco. Modular dynamic virtual-reality modeling of robotic systems. IEEE Robotics & Automation Magazine. Vol. 6, N° 4, December 1999, pp. 13-23.
	G. Ferretti and R. Girelli. Modelling and simulation of an agricultural tracked vehicle. Journal of Terramechanics. Vol. 36, N° 3, June 1999, pp. 139-158.
	G. Ferretti, G. Magnani, and P. Rocco. Force oscillations in contact motion of industrial robots: an experimental investigation. IEEE/ASME Transactions on Mechatronics. Vol. 4, N° 1, March 1999, pp. 86-91.
	G. Ferretti, G. Magnani, and P. Rocco. Modelling, identification and compensation of pulsating torque in permanent magnet AC motors. IEEE Transactions on Industrial Electronics. Vol. 45, N° 6, December 1998, pp. 912-920.
	G. Ferretti, G. Magnani, and A. Zavala Rio. Impact modelling and control in industrial manipulators. IEEE Control Systems Magazine. Vol. 18, N° 4, August 1998, pp. 65-71.
	G. Ferretti, G. Magnani, and P. Rocco. Towards the implementation of hybrid position/force control in industrial robots. IEEE Transactions on Robotics & Automation. Vol. 13, N° 6, December 1997, pp. 838-845.
	G. Ferretti, G. Magnani, and P. Rocco. Implicit force control for industrial robots in contact with stiff surfaces. Automatica. Vol. 33, N° 11, November 1997, pp. 2041-2047.
Personal web page	http://ferretti.faculty.polimi.it/