Curriculum Vitae

Personal Information

Surname, Name	**Fantuzzi Cesare**
Citizenship	Italian
Date of birth	15/08/1964
Place of birth	Bentivoglio (Bologna), Italy

Current position

(since 2002) Professor of Automation and Robotics at University of Modena and Reggio Emilia (www.dismi.unimore.it)
(since 2001) Founder and Head of the Laboratory of Automation, Robotics and System Control (ARSControl laboratory www.arscontrol.unimore.it) at University of Modena and Reggio Emilia.

Past positions

(from 2018 to 2021) Dean of the Department of Engineering of University of Modena and Reggio Emilia.
(from 2017 to 2018) Dean of the Ph.D. School "Economics for Engineering – Engineering for Economics" (E4E).
(from 2012 to 20) Director of the Graduate and Master of Science programs in Mechatronics, University of Modena and Reggio Emilia.

Address (University)	Via Amendola, 2 (Padiglione Morselli), I-42122, Reggio Emilia, RE, Italia
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E-mail	cesare.fantuzzi@unimore.it, cesare.fantuzzi@it-i.it
Web site	https://www.arscontrol.org/team/cesare-fantuzzi-2/
Google scholar	https://scholar.google.it/citations?user=Zfp79sMAAAAJ&hl=it

Specializations

Scientific area	ING-INF/04 AUTOMATICA (Automatics)
Keywords	Automation, Robotics, Cyber-physical Systems, Mechatronics, Predictive Maintenance, Industrial Research, Academic Education.

Personal Summary

Cesare has more than 30 years of experience in the area of industrial automation and robotics, with a solid scientific background certified by over 300 publications in leading conferences and journals in automation and robotics area. He is associate editor of "Mechatronics" Journal (pub. Elsevier) and of IEEE Transaction of Automation Science and Engineering, and has the program chair in the IEEE 2018 Conference on Automation Engineering and Science (CASE), he is chair of the scientific committee of IEEE International Conference on Emerging Technologies and Factory Automation, the IEEE International Conference on Automation Science and Engineering and the Intellimech Consortium

	(http://www.intellimech.it/index.php/en/). He is in the scientific committee who wrote the Italian Research and Innovation Roadmap for the Smart Factory (http://www.fabbricaintelligente.it/). He is the reference researcher for University of Modena and Reggio Emilia at EFFRA (European Factory of the Future Research Association). Cesare was in the board of experts who wrote the "Smart Specialisation Strategy" (http://ec.europa.eu/research/regions/index_en.cfm?pg=smart_specialisation) for Emilia-Romagna Region, Italy. Since 1998, Cesare has been the chief investigator of more than 100 industry founded research projects in cooperation with large, medium and small companies. These researches aim to the application of concepts and technologies of Industry 4.0 and Digital Factory (IoT, integrated design and simulation, vision systems, predictive maintenance, robot-human co-working, etc.) to the development of smart machine and devices to improve manufacturing processes. In the latter years, Cesare coordinates a research staff of about 25 people in the ARSControl laboratory (http://www.arscontrol.org) of University of Modena and Reggio Emilia. Since 2015 Cesare founded the startup company "Industria Tecnologica Italiana" (Italian Technological Industry, web site https://www.it-i.it/), which produces innovative robotic devices for automation in welding industry (http://mywelder.it-i.it/) and waste automatic collection (http://uolli.eu/). He was the main coordinator of VII FP European project STRATOS (Open System for TRACTORS autonomous Operations, and the coordinator for University of Modena and Reggio Emilia of VII FP European projects UNIFARM (GNSS based Navigation User Forum on Innovation for Farmers) and PAN-ROBOTS (Plug and Navigate Mobile Robots for Smart Manufacturing Systems). He is the coordinator for University of Modena and Reggio Emilia of Horizon 2020 European projects SYMPLEXITY (Symbiotic human-robot collaborations for safe and multimodal manufacturing systems), Grant Agreement nr. 637080 and IMPROVE (Innovative Modeling Approaches for Production Systems to raise validatable efficiency)., Grant Agreement nr. 678867 . He was main scientist and coordinator of Horizon 2020 project INCLUSIVE, Grant Agreement nr. 723377.
Curriculum Vitae	
1November 2018 – 31 October 2021	Dean of the Department of Engineering of University of Modena and Reggio Emilia, Reggio Emilia site.
1 March 2013 – 30 October 2018	Director of the Graduate and Master of Science programs in Mechatronics, University of Modena and Reggio Emilia (http://www.dismi.unimore.it/site/home/didattica/corsi-di-laurea/ingegneria-meccatronica.html)
Main activities and responsibilities	Organization and supervision of didactical activities and courses.
Name of employer	Università di Modena e Reggio Emilia
Address of employer	Via Università 4, 41121 Modena, tel. 059 2056511
1 January 2010 – 28 February 2013	Director of the Doctoral School in Engineering of Industrial Innovation, Department of Engineering Sciences and Methods.
Main activities and responsibilities	Organization of scientific and educational activities of the Graduate School.
Name of employer	Università di Modena e Reggio Emilia
Address of employer	Via Università 4, 41121 Modena, tel. 059 2056511
16 December 2006 – current	Full Professor at the Department of Engineering Sciences and Methods of Reggio Emilia for the Scientific Sector ING INF-04 (Automatic), confirmed for tenure position in December 16, 2009.
Type of relationship	Permanent.
Role	Full Professor
Main activities and responsibilities	Organization of teaching and research in the fields of control systems and industrial

	automation. Coordination of the research group in Automation, Robotics and Control Systems (www.arscontrol.org).
Name of employer	Università di Modena e Reggio Emilia
Address of employer	Via Università 4, 41121 Modena, tel. 059 2056511
15 January 2001 – 15 December 2006	Associate Professor at the Faculty of Engineering of Reggio Emilia for the Scientific Sector ING INF-04 (Automatic).
Type of relationship	Permanent.
Role	Associated Professor
Main activities and responsibilities	Organization of teaching and research in the fields of control systems and industrial automation. Coordination of the research group in Automation, Robotics and Control Systems (www.arscontrol.unimore.it).
Name of employer	Università di Modena e Reggio Emilia
Address of employer	Via Università 4, 41121 Modena, tel. 059 2056511
1 November 1966 – 14 January 2001	Researcher at the Department of Engineering, the Group Disciplinary K04X (Automatic)
Type of relationship	Permanent.
Role	Researcher
Main activities and responsibilities	Research in the areas of auto, industrial automation and systems. Contact the laboratory of Robotics and Automation, University of Ferrara.
Name of employer	Università di Ferrara
Address of employer	Via Savonarola, 36, 44100 Ferrara.

Education and training

1 November 1991 – 30 October 1994	PhD in Systems Engineering, disciplinary group K04X, Automatic. The final dissertation with positive assessment was defended October 27, 1995. Title of thesis: "Methods of Analysis and Synthesis of Fuzzy Logic Controllers".
Type	PhD
Title of qualification awarded	Doctor of Philosophy in System Engineering
Rating / assessment obtained	Good
Name of organization providing education and training	Università degli studi di Bologna.
Type of organization providing education and training	University
Principal subjects / occupational skills acquired	Ability to develop scientific research in autonomy. Knowledge of mathematics and fuzzy logic, knowledge of non-linear systems.
1 November 1984 – 5 December 1990	Master Degree in Electrical Engineering,
Type	Master Degree
Title of qualification awarded	Master Degree in Electrical Engineering.
Rating / assessment obtained	98/100
Name of organization providing education and training	Università degli studi di Bologna.
Type of organization providing education and training	University

Language skills

Mother Tongue	Italiano

Other language	**English**
Lecture skill	Excellent
Writing Skill	Excellent
Listening skill	Excellent
Oral expression skill	Excellent

Scientific Activity

Topics	Mobile robotics, Industrial Automation, Prognostics, Fault Diagnosys, System Engineering.
Google Scholar score (03/01/2018)	Papers: 287, Citations: 3473, 29 (1989-2018), Cites/year: 119.76, Cites/paper: 12.10 Cites/author: 1215.61, Papers/author: 105.74, Authors/paper: 3.17/3.0/3 (mean/median/mode), Age-weighed citation rate: 360.91 (sqrt=19.00), 114.77/author, Hirsch h-index: 28 (a=4.43, m=0.97, 2273 cites=65.4% coverage), Egghe g-index: 52 (g/h=1.86, 2770 cites=79.8% coverage) PoP hI,norm: 15, PoP hI,annual: 0.52
5 Best papers (in the five years)	1. G Barbieri, C Fantuzzi, R Borsari, A model-based design methodology for the development of mechatronic systems, 2014, Mechatronics, Elsevier,http://www.sciencedirect.com/science/article/pii/S0957415813002389 2. L Sabattini, C Secchi, C Fantuzzi, Hierarchical traffic control for partially decentralized coordination of multi agv systems in industrial environments, 2014, ICRA, http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6907764 3. M Bonfè, C Fantuzzi, C Secchi, Design patterns for model-based automation software design and implementation, 2013, Control Engineering Practice, Elsevier, http://www.sciencedirect.com/science/article/pii/S0967066112000810 4. E Gebennini, A Grassi, C Fantuzzi, S.B. Gershwin, Discrete time model for two-machine one-buffer transfer lines with restart policy, 2013, Annals of Operations Research Springer http://link.springer.com/article/10.1007/s10479-011-0868-5 5. C Secchi, L Sabattini, C Fantuzzi, Decentralized global connectivity maintenance for interconnected Lagrangian systems in the presence of data corruption, 2013, European Journal of Control, Elsevier, http://www.sciencedirect.com/science/article/pii/S0947358013001623

Patent	WO 2009083597 A1 Integrated packaging system architecture, Applicant: Tetra Laval Holdings & Finance, Inventors Claudio Donati, Lorenzo Tacconi, Cesare Fantuzzi, Stefano Faglioni. Publication date 9 Jul 2009