

Academic Notes

Since 2004, he has been an Associate Professor in the SSD ING-IND/17 – Mechanical Industrial Plants, employed at the Department of Engineering of the University of Perugia. He has been responsible for research projects since 2001, funded at both national and international levels. Delegate of the Department Director for workplace safety, according to law 81/08 and subsequent amendments. Visiting Scientist at the University of Gottingen in 2012. Visiting Professor at the University of Arizona in 2008. Since its foundation in 2011, he has been a member of A.I.D.I., the Italian Association of Industrial Plant Teachers. National Scientific Qualification for the role of First-Level University Professor in the Concorsuale Sector 09/B2 - MECHANICAL INDUSTRIAL PLANTS obtained in 2012 and again in 2018. From 1995 to 2004, he was a University Researcher in the SSD ING-IND/17, working at the former Institute of Energetics (renamed in 1999 as the Department of Industrial Engineering and merged in 2014, in turn, into the Department of Engineering) of the University of Perugia. Qualified as an Engineer in 1992. Degree in Electronic Engineering, summa cum laude, from the University of Perugia in 1991.

Research Activities

Author of over 110 scientific products, mainly international, including journal articles, conference proceedings, book chapters, and 1 patent. Responsible for over 15 research grants and/or scholarships, receiving funding from university, local, and international levels. Local coordinator of several International Research Projects such as: 2022-2026 LIFE21-ENV-FI-GREEN CASTING LIFE, Towards zero emissions in European ferrous foundries using inorganic binder systems; 2018-2022 LIFE17 ENV/FI/000173, Green Foundry LIFE, Inorganic binder system to minimize emissions, improve indoor air quality, purify and reuse contaminated foundry sand; 2010-2013 LIFE09 ENV/FI/000568, VOCless waste water, Abatement of VOC load from waste water treatment in mechanical pulping; 2006-2009 LIFE06 ENV/FIN/000201 VOCless pulping, Control of VOC emissions from mechanical pulping beyond BAT; 2005-2007 New strategy of International Management in the logistical-productive chain of natural STONES, MAP ICE CRUI, 2003. 2001-2004 ISACOA thematic network. Local coordinator of the following National Research Projects: 2018-2020 FILO - Logistics and Organization Chain, sustainability through Organizational Efficiency in Agri-food Chains, Umbria Region RDP; 2008-2010 Analytical Models for Supply Chain Performance Calculation, Terni Province; Program Chair and Editor at AMS 2006 and WAMS 2010, in Brazil. Currently on the International Program Committee of IMS, International Conference on Industry 4.0 and Smart Manufacturing. He has been involved in organizing many international conferences. Since its foundation in 2011, he has been a member of AIDI, the Italian Association of Industrial Plant Teachers.

Teaching Activities

Since 1998/99, he has been responsible for teaching courses in the SSD ING-IND/17 Mechanical Industrial Plants, teaching courses in the following degree programs: Mechanical Engineering; Materials Engineering; Energetic Engineering; Industrial Engineering; Safety Engineering of the Territory and Built Environment, Management Engineering. Advisor for 143 theses between bachelor's and master's degrees. Teacher in first and second-level university master's degrees. Member of the board of directors of the MIGA Master's program, member of the teaching staff of the MISAR Master's program, funded by INAIL. Member of the teaching staff of the Ph.D. program: "Industrial and Information Engineering". Supervisor of 6 doctoral theses.

International Collaborations

Below are the periods of study abroad: In 2012, from November to December at the University of Gottingen as a visiting scientist; In 2008, from October to January at the University of Arizona as a visiting professor; from August to September at the University of Arizona as a visiting professor; from July to August at Rutgers University as a visiting scientist from 2012 to 2016 Affiliation with the "DFG Research Training Group 1703"Resource Efficiency in Interorganizational Networks" of the University of Gottingen, as a guest researcher from 2007 to 2010 affiliation of the candidate at Rutgers University as Affiliated Faculty of the Industrial and System Engineering Department He then conducted the following seminars at the international level: 2012 Seminar entitled: Lecture Supply Chain Management in Small and Medium-sized Enterprises in Umbria (Italy), held at the University of Gottingen during the period of visiting scientist; 2009-Seminar on supply chain risk held at the I Summerschool Piero Lunghi in New York on July 10, 2009; 2008-Seminar on: Cases of Modeling and Simulation in Industrial Engineering at the University of Arizona, Department of System and Industrial Engineering; 2007-Seminar on: Supply Chain Management held at Metropolitan University, Leeds, UK. He also had the following international collaborations: from 2001 to present technical-scientific collaboration with Finnish partners of AX consulting/Meehanite Technology Oy which has produced several publications and the opportunity to collaborate in 5 European projects. From 2001 to the present, collaboration with Prof. Jutta Geldermann of the former University of Gottingen, which allowed

collaboration on a European project and several personnel exchanges (including a visiting scientist period for the candidate) and which produced several scientific publications. In particular, the last one, the case of the Small Supply Chain, a case study also for educational use tested in both universities. In 2016, the visiting research project for which the candidate was responsible allowed to bring Prof. Mohsen Jafari from Rutgers University to Perugia, organizing, among other things, a meeting with engineering students and graduates for collaborations at Rutgers University. From 2005 to 2012 (year of death) with Prof. Tayfur Altiok of Rutgers University which allowed collaboration in an interesting field, that of manufacturing systems analysis. From 2007 to 2009, the stay at the University of Arizona as a visiting professor allowed him to come into contact with interesting research areas, potentially inspiring for developing innovative themes. From 2006 to 2010, the organization with COPPE, University of Rio de Janeiro, allowed to organize 3 highly successful international conferences on simulation.

Awards and Appreciations

He has received the following recognitions: in 2023 he receives an Appreciation Certificate from the ISM 2023 conference for his contribution in the field of simulation; in 2017 he receives an Outstanding Certificate from the International Journal of Production Economics for his refereeing activity; in 2013 he received an appreciation letter from Prof. Jutta Geldermann concerning the period of visiting scientist spent in Gottingen; in 2010 the LIFE06 ENV/FIN/000201 VOCless pulping project is included by the EU among the Best Life Project for Environment; in 2010 he receives an award from the organizers of WAMS 2010; in 2008 he obtained from the Faculty of Engineering a leave of absence for study reasons, with which he was able to accept the offer of Visiting Professor; in 2008 he receives an appreciation letter from Prof. Jerzy Rozenblitt regarding his stay as Visiting Professor at the University of Arizona; in 2006 he receives an award from the organizers for the support provided to the AMS workshop, Applied Modeling and Simulation; in 2000, he won the Russel Ackoff Award obtained at the XVI International Conference on Waste Technology and Management for the presentation "Life Cycle Assessment Analysis for Municipal Solid Waste Management: the case of a 100000 inhabitant of an Italian Town"; He received a one-off attribution from the university in 2018 and recognition of salary classes.

Management Activities

These are the managerial positions covered: In 2023 formally appointed by the deputy director for workplace safety with signing power, already used for the approval of workers' safety sheets. From 2014 to the present, he has been the referent of the various directors for workplace safety. In 2022 and then again in 2023, he was elected as a member of the department's parity commission. In 2019, he was elected as a member of the department council from 2019 to 2022. In 2014 appointed representative of the associates for area 09 in the University Evaluation Scientific Committee for the two-year period 2014-2015. In 1999 Elected representative of researchers in the faculty council of Engineering of the University of Perugia where he remained until 2002. In 1999 Elected representative of researchers in the Scientific Area Commission "Industrial Engineering Sciences" for the two-year period 1998-1999. In 1995 representative of researchers within the Course Council of Materials Engineering of the engineering faculty of Perugia. He remained in office until 2004. Chairman of the commission for the 2 sessions of 2018, full member for the sessions of 2014 and the first of 2008, Expert member for the management sector in 2010 and 2012.

Review Activities

He has been a reviewer of projects at the European Union level and of projects of the MIUR such as PRIN, SIR, Futuro in ricerca and for Finpiemonte. He is a reviewer for the most prestigious sector scientific journals.