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# Stefano Filippi

## Curriculum Vitae et Studiorum

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#### Personal data

- Born in Bolzano (BZ), on 15 September 1964.
- Resident in Udine (UD).
- Addresses
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## School and academic career

- From 16 May 2017 - Full Professor at DPIA (Polytechnic Department of Engineering and Architecture), University of Udine, in the ING-IND/15 group (Design and Methods for Industrial Engineering).
- 2013 - National Scientific Qualification as Full Professor in the Competition Sector 09/A3 - Industrial Design, Mechanical Manufacturing and Metallurgy, with overcoming of all medians. Specifically (as of October 2013 - source MIUR website): articles = 11 (+57.14% compared to the value of the SSD = 7); citations = 5.348 (+200.45% compared to the value of the SSD = 1.78); Contemporary h-index = 6 (+100% compared to SSD value = 3).
- From 12 January 2008 to 15 May 2017 – Confirmed Associate Professor at DIEGM (Department of Electrical, Management and Mechanical Engineering) now DPIA (Polytechnic Department of Engineering and Architecture), University of Udine, in the ING-IND/15 group (Design and Methods for Industrial Engineering).
- From 12 January 2005 to 11 January 2008 - Associate Professor at DIEGM (Department of Electrical, Management and Mechanical Engineering), University of Udine, in the ING-IND/15 group (Design and Methods for Industrial Engineering).
- May 21, 2003 - Associate Professor (without taking office, due to hiring block) of the Faculty of Engineering of the University of Udine, in the group ING-IND/15 (Design and Methods of Industrial Engineering).
- December 12, 2002 - Eligibility as Associate Professor.
- From 1 November 2001 to 11 January 2005 – Confirmed Assistant Professor at DIEGM (Department of Electrical, Management and Mechanical Engineering), University of Udine, in the ING-IND/15 group (Design and Methods for Industrial Engineering).
- From 1 November 1998 to 31 October 2001 - Assistant Professor at DIEGM (Department of Electrical, Management and Mechanical Engineering), University of Udine, in the ING-IND/15 group (Design and Methods for Industrial Engineering).
- A.Y. 1997-98 - Adjunct Professor "ex articolo 100 d)" for the teaching of Computer Aided Design at the University Diploma in Mechanical Engineering at the University of Udine (Pordenone campus).
- November 25, 1996 - PhD in Computer Engineering at Politecnico di Milano with a thesis on the Evaluation of the Usability of CAD software packages.
- From May to November 1992 - PhD student at the University of Tokyo (Japan), in the Department of precision machinery directed by Prof. F. Kimura, on research concerning feature based modeling.
- From 1992 to 1996 PhD in Computer Engineering at Politecnico di Milano, Italy.
- December 21, 1990 - Degree in Computer Science (Technical - Graphic address) at the University of Milan, with a score of 103/110, with the thesis entitled "Analysis and implementation of a method for hybrid modeling CSG - BRep based on Euler Operators".
- 1983 – High school diploma at the Liceo Scientifico Statale "Giorgio Dal Piaz" of Feltre (BL) with a score of 52/60.

## Institutional activities and assignments

- 2020 - Member of the Commission for the extension of the contract of University Researcher "type A" ING-IND/15 (Brescia).
- From January 2020 - President of the Joint Teacher-Student Commission of the DPIA dept. (Polytechnic Department of Engineering and Architecture) of the University of Udine.
- 2019 - President of the Commission for the admission exam of the PhD in Industrial and Information Engineering XXXV cycle, DPIA Dept. University of Udine.
- 2017 - Member of the Commission for the final exam of the PhD in Industrial and Information Engineering, DPIA Dept. University of Udine.

- 2015 - Member of the Commission for the final exam of the PhD in Design, Politecnico di Milano, Italy.
- 2014 - Member of the Commission for the comparative evaluation of a position of University Researcher "type A" ING-IND/15 (Milan).
- 2014 - Member of the Commission for the comparative evaluation of a position of University Researcher "type B" ING-IND/15 (Milan).
- 2014 - Organizer and member of the Commission for the final exam of the PhD in Industrial and Information Engineering, DIEGM Dept. University of Udine.
- Since 2010 - Referent for the SSD ING-IND/15 at the University of Udine, Italy.
- From 1 January 2009 to 31 December 2011 - Member of the Commission for the confirmation of University Researchers ING-IND/15.
- From A.Y. 2006/07 to A.Y. 2008/09 - Representative of Associate Professors in the Board of the Faculty of Engineering of the University of Udine.
- From A.Y. 2006/07 to A.Y. 2008/09 - Member of the Board of Directors of the Multipurpose Center of Pordenone of the University of Udine, as Referent of the Master's Degree Course in Industrial Innovation Engineering.
- From A.Y. 2005/06 to A.Y. 2008/09 - Delegate of the Rector of the University of Udine to Permanent, Continuing and Recurrent Training.
- From A.Y. 2005/06 to A.Y. 2008/09 - Representative of Associate Professors in the Academic Senate of the University of Udine.
- From July 2006 to July 2009 - President of the Technical Scientific Committee of the Friuli Formazione Consortium (<http://www.friuliformazione.it/>).
- 2006 - Promoter and developer, on the recommendation of the Rector prof. F. Honsell and the Dean of the Faculty prof. A. Stella, of the Master's Degree Course in Industrial Innovation Engineering at the Pordenone campus.
- Since 2009 - Scientific director of research grants in the DIEGM Department of the University of Udine.
- 2009 - IFTS Course Coordinator "Higher technician for product and process industrialization, logistics and communication" - Polo Legno.
- 2009 - IFTS Course Coordinator " Higher technician for industrial design and engineering" - Polo Meccanica.
- From 2004 to 2007 - Responsible for the "wood/furniture" course of the degree course in Mechanical Engineering, Faculty of Engineering of the University of Udine, activated at the Pordenone campus.
- From 2004 to 2007 - Head of the "wood/furniture" design laboratory of the University of Udine, located at the Pordenone campus.
- 2007 - IFTS Course Coordinator "Higher technician for production planning and computerized logistics - Furniture industry".
- 2007 - IFTS Course Coordinator "Higher technician for product and process industrialization - marketing and design".
- 2007 - IFTS Course Coordinator "Higher technician for industrial automation".
- 2007 - IFTS Course Coordinator "Higher technician for plant operation and maintenance".
- From 2005 to 2007 - Member of the II level Master Council in Project Management and System Engineering of the Faculty of Engineering of the University of Udine, in collaboration with Danieli Officine Meccaniche.
- From A.Y. 2004/05 to A.Y. 2006/07 - Representative of the University of Udine in the Technical/Scientific Management Committee of the ALFORM Higher Education project, activated at the Pordenone campus.
- From 2003 to 2005 - Member of the Evaluation Team in the CAMPUS-ONE Project in the degree course in Mechanical Engineering, Faculty of Engineering, University of Udine (Pordenone campus).
- 2004 - Member of the Commission for the comparative evaluation of a position of University Researcher ING-IND/15 (Florence).

- From A.Y. 2002/03 to A.Y. 2003/04 - Representative of Researchers in the Council of the degree in Management Engineering of the Faculty of Engineering of the University of Udine.
- From A.Y. 2002/03 to A.Y. 2003/04 - Representative of Researchers in the Council of the degree in Mechanical Engineering of the Faculty of Engineering of the University of Udine.
- 2003 - Founding member of Apeiron, an association for the dissemination of methodologies for systematic innovation.
- 2002 - Member of the Commission for the comparative evaluation of a position of University Researcher ING-IND/15 (Trento).
- From A.Y. 1999/2000 to A.Y. 2001/02 - Representative of Researchers in the Council of the degree in Mechanical Engineering of the Faculty of Engineering of the University of Udine.
- From A.Y. 1999/2000 to A.Y. 2001/02 - Representative of Researchers in the Council of the University Diploma in Mechanical Engineering of the Faculty of Engineering of the University of Udine.
- From A.Y. 2000/01 to 11 January 2005 - Representative of Researchers in the Council of the Faculty of Engineering of the University of Udine.
- Since 1998 - Member of the Board of Professors of the PhD in Industrial and Information Engineering of DIEGM (Department of Electrical, Management and Mechanical Engineering) now DPIA (Polytechnic Department of Engineering and Architecture), University of Udine.

## Teaching

### University courses

- 2022-23 - Product Interaction and Innovation (48 hours), I year of the Master's Degree in Mechanical Engineering (Udine campus) with, in mutual, Product Interaction and Innovation (48 hours), I year of the Master's Degree in Management Engineering (Udine campus).
- 2022-23 - Design and Geometric Modeling of Machines II module (48 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2021-22 - Product Interaction and Innovation (48 hours), I year of the Master's Degree in Mechanical Engineering (Udine campus) with, in mutual, Product Interaction and Innovation (48 hours), I year of the Master's Degree in Management Engineering (Udine campus).
- 2021-22 - Design and Geometric Modeling of Machines II module (48 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2020-21 - Product Interaction and Innovation (48 hours), I year of the Master's Degree in Mechanical Engineering (Udine campus) with, in mutual, Product Interaction and Innovation (48 hours), I year of the Master's Degree in Management Engineering (Udine campus).
- 2020-21 - Design and Geometric Modeling of Machines II module (48 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2019-20 - Product Interaction and Innovation (48 hours), first year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2019-20 - Design and Geometric Modeling of Machines II module (48 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2018-19 - Product Interaction and Innovation (48 hours), first year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2018-19 - Design and Geometric Modeling of Machines II module (48 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2017-18 - Product Interaction and Innovation (48 hours), first year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2017-18 - Design and Geometric Modeling of Machines II module (48 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).

- 2016-17 - Product Interaction and Innovation (60 hours), first year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2016-17 - Design and Geometric Modeling of Machines II module (60 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2015-16 - Product Interaction and Innovation (60 hours), first year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2015-16 - Design and Geometric Modeling of Machines II module (60 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2014-15 - Product Interaction and Innovation (60 hours), first year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2014-15 - Design and Geometric Modeling of Machines II module (60 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2013-14 - Product Interaction and Innovation (60 hours), first year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2013-14 - Design and Geometric Modeling of Machines II module (60 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2012-13 - Methods of Representation and Product Development (60 hours), II year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2012-13 - Design and Geometric Modeling of Machines II module (60 hours), II year of the Degree Course in Mechanical Engineering (Udine campus).
- 2012-13 - Substitute Professor of Human Machine Interaction (60 hours), second year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2011-12 - Methods of Representation and Product Development (50 hours), II year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2011-12 - Human Machine Interaction (50 hours), second year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2010-11 - Formalization and Innovation of the Industrial Product (50 hours), II year of the Master's Degree in Industrial Innovation Engineering (Pordenone campus).
- 2010-11 - Substitute Professor of Human Computer Interaction (50 hours), first year of the Master's Degree in Communication Sciences with, in mutuaction, Human Machine Interaction (50 hours), II year of the Master's Degree Course in Industrial Innovation Engineering (Pordenone campus).
- 2010-11 - Methods of Representation and Product Development (50 hours), II year of the Master's Degree in Mechanical Engineering with, in mutual, Mechanical Prototyping (50 hours), II year of the Master of Science in Mechanical Engineering (Udine campus).
- 2010-11 - Substitute Professor of Human Machine Interaction (50 hours), II year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2009-10 - Formalization and Innovation of the Industrial Product (50 hours), II year of the Master's Degree in Industrial Innovation Engineering (Pordenone campus).
- 2009-10 - Substitute Professor of Human Computer Interaction (50 hours), first year of the Master's Degree in Communication Sciences with, in mutual, Human Machine Interaction (50 hours), second year of the Master's Degree Course in Industrial Innovation Engineering (Pordenone campus).
- 2009-10 - Mechanical Prototyping (50 hours), II year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2008-09 - Formalization and Innovation of the Industrial Product (40 hours), II year of the Master's Degree in Industrial Innovation Engineering (Pordenone campus).
- 2008-09 - Human-Computer Interaction (40 hours), II year of the Master's Degree in Industrial Innovation Engineering (Pordenone campus).

- 2008-09 - Substitute Professor of Mechanical Prototyping (40 hours), II year of the Master's Degree in Mechanical Engineering (Udine campus).
- 2007-08 - Formalization and Innovation of the Industrial Product (40 hours), II year of the Master's Degree in Industrial Innovation Engineering (Pordenone campus).
- 2007-08 - Geometric Modelling of Machines (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2007-08 - Substitute Professor of Man-Computer Interaction (40 hours), II year of the Master's Degree in Industrial Innovation Engineering (Pordenone campus).
- 2006-07 - Industrial Design (40 hours), second year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2006-07 - Geometric Modelling of Machines (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2006-07 - Substitute Professor of Geometric Modelling of the Product in Wood/Furniture (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2006-07 - Teacher of "Methods of representation in furniture/chair" (21 hours) in the "mobile/chair" cluster of the ALFORM Higher Education project (Pordenone campus).
- 2006-07 - Teacher in the II level master "Project Management and System Engineering" (lessons on Product Representation with particular emphasis on 3D parametric modeling) (10 hours) (Udine campus).
- 2005-06 - Industrial Design (40 hours), second year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2005-06 - Geometric Modelling of Machines (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2005-06 - Substitute Professor of Geometric Modelling of the Product in Wood/Furniture (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2005-06 - Teacher of "Methods of representation in furniture/chair" (40 hours) in the "mobile/chair" cluster of the ALFORM Higher Education project (Pordenone campus).
- 2005-06 - Teacher of Elements of Computer Science (50 hours), first year of the Course of Architectural Sciences (Udine campus).
- 2005-06 - Teacher in the master of II level "Project Management and System Engineering" (lessons on Product Representation with particular emphasis on 3D parametric modeling) (10 hours) (Udine campus).
- 2005-06 - Teacher in the II level master "Technological Transfer" (lessons in English on Product Representation with particular emphasis on 3D parametric modeling) (8 hours) (Udine campus).
- 2004-05 - Geometric Modeling of Machines (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2004-05 - Geometric modeling of the product in wood / furniture (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2004-05 - Substitute Professor of Industrial Design (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2004-05 - Substitute Professor of Computer Science Elements (50 hours), first year of the Course of Architectural Sciences (Udine campus).
- 2003-04 - Substitute Professor of Industrial Design (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2003-04 - Substitute Professor of Geometric Modelling of Machines (40 hours), II year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2003-04 - Substitute Professor of Computer Science Elements (50 hours), first year of the Course of Architectural Sciences (Udine campus).

- 2003-04 - Substitute Professor of Computer-Aided Design (80 hours), fifth year of the Degree Course in Mechanical Engineering with, in mutual, Mechanical Prototyping (40 hours), II year of the Specialized Degree Course in Mechanical Engineering (Udine campus).
- 2002-03 - Substitute Professor of Geometric Modelling of Machines (40 hours), II and III year of the Degree Course in Mechanical Engineering (Pordenone campus).
- 2002-03 - Substitute teacher of Fundamentals of Computer Science (50 hours), I year of the Course of Architectural Sciences (Udine campus).
- 2002-03 - Substitute Professor of Computer Assisted Design (80 hours), fifth year of the Degree Course in Mechanical Engineering (Udine campus).
- 2001-02 - Teacher of 3D CAD Internship (30 hours), III year of the Diploma Course in Mechanical Engineering (Pordenone campus).
- 2001-02 - Substitute Professor of Computer Assisted Design (80 hours), fifth year of the Degree Course in Mechanical Engineering (Udine campus).
- 2000-01 - Teacher of 3D CAD Internship (30 hours), III year of the Diploma Course in Mechanical Engineering (Pordenone campus).
- 2000-01 - Substitute Professor of Computer Assisted Design (80 hours), fifth year of the Degree Course in Mechanical Engineering (Udine campus).
- 1999-2000 - Substitute Professor of Computer Aided Design (50 hours), second year of the Diploma Course in Mechanical Engineering (Pordenone campus).
- 1999-2000 - Teacher of 3D CAD Internship (30 hours), III year of the Diploma Course in Mechanical Engineering (Pordenone campus).
- 1999-2000 - Substitute Professor of Computer Assisted Design (80 hours), fifth year of the Degree Course in Mechanical Engineering (Udine campus).
- 1998-99 - Substitute teacher of Computer Aided Design (50 hours), second year of the Diploma Course in Mechanical Engineering (Pordenone campus).
- 1998-99 - Teacher of 3D CAD Internship (30 hours), III year of the Diploma Course in Mechanical Engineering (Pordenone campus).
- 1998-99 - Substitute Professor of Computer Assisted Design (80 hours), fifth year of the Degree Course in Mechanical Engineering (Udine campus).
- 1997-98 - Adjunct Professor "ex articolo 100 d)" for Computer Aided Design (50 hours) at the University Diploma in Mechanical Engineering (Pordenone campus).

### Exams

- From A.Y. 1997-98 - President or member of the Commissions for the exams of all the teaching modules mentioned above, as well as member of the Commissions for the exams of the teaching modules belonging to the SSD ING-IND/15 not mentioned above and provided by the University of Udine.

### Thesis and PhD

- Supervisor of about 140 Bachelor's Thesis, Master's Degree, Master's Degree and PhD thesis.

### Other teaching

- 2022 - Lecturer in the training course "Modeling and drawing CAD" (modeling and CAD design lessons for technicians of the University of Udine) at the University of Udine (UD).

### Teaching activities prior to 1998

- 1997/98 - Lecturer in the training course "From analog to digital" (basic computer science lessons and technologies for multimedia and networking) at CANON (MI).
- 1996 - Teacher of the course "HP-UX System Administrator, release 10", at the Hewlett-Packard Training Center in Rome.

- A.Y. 1996/97 - Assistant in the teaching of Computer Graphics (teacher: Prof. P. Paolini) of the Degree Course in Computer Engineering, Politecnico di Milano.
- From A.Y. 1994/95 to A.Y. 1997/98 - Assistant in the teaching of Fundamentals of Computer Science (teacher: Prof. L. Sbattella) of the Degree Course in Mechanical Engineering, Politecnico di Milano.
- From A.Y. 1993/94 to A.Y. 1995/96 - Assistant in the teaching of Computer Graphics (teacher: Prof. U. Cugini) of the Degree Course in Computer Engineering, Politecnico di Milano.
- A.Y. 1993/94 - Assistant in the teaching of Fundamentals of Computer Science (teacher: Prof. A. Celentano) of the Degree Course in Management Engineering, Politecnico di Milano.
- A.Y. 1992/93 - Assistant in the teaching of Fundamentals of Computer Science (teacher: Prof. L. Mezzalana) of the Degree Course in Management Engineering, Politecnico di Milano.
- A.Y. 1990-91 - Assistant in the teaching of Automatic Design Techniques of the Faculty of Information Sciences, University of Milan.

## Research

### Activities and assignments

- PIRG - Product Innovation Research Group (<https://pirg.uniud.it/>), since June 2009 at the DIEGM Department of the University of Udine, now DPIA dept. Role: Founder and Director.
- Project "Sustainable Home 2" (October 2008 - March 2011). Regional Research Project (Regional Law 47/1978 as amended by Regional Law 26/2005). Role: scientific director for the University of Udine. These funds, intended for the strengthening of the SSD ING-IND/15 within the Department, have been financing a Research Fellowship for 6 years now. In addition, in 2008 this funding started the process for the announcement of a comparative procedure for a first-tier chair in the SSD ING-IND-15, a process that saw the positive opinion of the Faculty and Department and then remained suspended pending clarifications from the Ministry.
- Project "Tech-UP 1, Engineering Laboratory for Ubiquitous and Pervasive Technologies" from 2006 to 2008. Regional Project of Scientific and Applied Research and Initiatives for the Transfer and Dissemination of Research Results (D.P.Reg. n. 0324 / Pres. of 08.10.2004). Role: Scientific Responsible of Work Package 1 "Permanent laboratory of engineering of ubiquitous and pervasive technologies (TECHUP LAB)" and of Task 3.3 "Development of rapid prototyping techniques for pervasive systems".
- Project PRIN-2005 "DESPRO - Integration of innovative methodologies for the design and development of custom-fit products: application and validation in the case of a socket for lower limb prosthesis" from 31 January 2006 to 31 January 2008. Funding for the University of Udine: € 37,200. Role: Scientific Director of the Research Unit of the University of Udine.
- COFIN-2001 Project "IKE - Integrated Knowledge-based Environment. Integration of Knowledge-Based Innovation Systems (KBIS) into a New Environment for Industrial Design and Optimization" from 2001 to 2004. Role: Member of the Research Unit of the University of Udine.
- Project "Study and development of a model and an integrated environment based on knowledge to support technological innovation processes" (Co-financing MURST ex40%) from 01 January 2002 to 31 December 2003. Role: Member of the Research Unit of the University of Udine.
- Project "Experimentation of techniques and methodologies for the activation of a Center of Innovative Technological Services at the Agemont to verify the possible interactions between the research system and that of SMEs in order to create a favorable environment for the development of companies falling within the objective 5B areas of the mountain territory of Friuli - Venezia Giulia". 2003. Role: Collaborator in the creation of the Spin-off "Marmax".
- Project "Experimentation of techniques and methodologies for the activation of a Center of Innovative Technological Services at the Agemont to verify the possible interactions between the research system and that of SMEs in order to create a favorable environment for the development of companies falling within the objective 5B areas of the mountain territory of Friuli - Venezia Giulia" (Financed by MURST



according to Law 488/92) from 02 February 2000 to 01 February 2003. Role: Member of the Research Unit of the University of Udine.

- Project "Priority methods and tools for business-to-business SMEs: optimization of production processes through simulation of technologies integrated with cost and skills assessment (SITECO)" (Project funded by MURST). 2002. Role: Member of the Research Unit of the University of Udine.
- Project "Co.Ge.F - Consorzio Generazione di Forme - (PNR SPI Tema 4). National Research Program on Innovative Production Systems" (Funded by MURST). From 01 November 1998 to 30 April 2001. Role: Member of the Research Unit of the University of Udine.
- Project CEE BRITE/EURAM II n. 8110 FEAST (FEature based ASsembly Techniques) from 7 June 1996 to 7 June 1997. Role: Member of the Research Unit of the University of Parma asa scholarship holder.
- Project CEE BRITE/EURAM II n. 8110 FEAST (FEature based ASsembly Techniques) from January to March 1995. Role: Research collaborator in the operational unit of the University of Parma.
- Project for the evaluation of commercial applications for CAD commissioned by FIAT Auto S.p.A. from March to June 1995. Role: Participant, as an expert of the University of Parma on the user interfaces aspect.
- Project for the development of an innovative system for the simulation of brain neurosurgery interventions with the Besta Neurological Institute (MI), from September to November 1991. Role: Research collaborator.
- Finalized Project "ROBOTICS" of CNR, modeling and simulation of a mechanical hand with high dexterity, from May to July 1991. Role: Research collaborator with the University of Bologna.
- Finalized Project "RAISA" of CNR, modeling and simulation of automatic milking cells, from January to April 1991. Role: Research collaborator with the University of Parma.

### Research topics

- User Experience design and evaluation
- Product innovation
- Knowledge Based Engineering (KBE)
- Prototyping
- CSCW - Computer Supported Cooperative Work
- Reverse Engineering
- Solid/parametric modeling

### Participation in conferences, workshops, associations, etc.

- 2024 - Component of the Program Committee of DCC'24, Eleventh International Conference on Design Computing and Cognition, July 2024, Montreal, Canada.
- 2022 - Online participation with presentation of publication at AHFE 2022. New York (USA).
- 2022 - Online participation with presentation of publication at JCM 2022. Ischia (NA). Italy.
- 2021 - Online participation with presentation of publication at ADM2021. Rome. Italy.
- 2021 - Online participation with presentation of publication at AHFE 2021. Virtual conference.
- 2020 - Online participation with presentation of publication at HCI International 2020. Copenhagen, Denmark.
- 2020 - Online participation with presentation of publication at Virtual Concept 2020 (online Conference).
- 2019 - Participation with presentation of publication at HCII 2019, Orlando, Florida (USA).
- 2018 - Component of the Program Committee of DCC'22, Tenth International Conference of Design Computing and Cognition, 2-6 July 2022, Lyngby/Copenhagen, Denmark.
- 2018 - Participation with publication presentation at HCII 2018, Las Vegas, Nevada (USA).
- 2018 - Component of the Scientific Advisory Board of DESIGN'18, 15th International Design Conference, 21-24 May 2018, Dubrovnik, Croatia.

- 2018 - Component of the Program Committee of DCC'18, 8th International Conference on Design Computing and Cognition, 2-4 July 2018, Milan, Italy.
- 2018 - Component of the Scientific Advisory Board of DCC'18, 8th International Conference on Design Computing and Cognition, 2-4 July 2018, Milan, Italy.
- 2017 - Participation with presentation of publication and role of member of the Scientific Committee at ICED17 - 21st International Conference on Engineering Design, 21-25 August 2017, UBC Campus , Vancouver (Canada).
- 2017 - Participation with publication presentation and chairman at AHFE2017 - 8th International Conference on Applied Human Factors and Ergonomics, 16-21 July 2017, Los Angeles (USA).
- 2016 - Participation with poster presentation at DCC'16 - Seventh International Conference on Design Computing and Cognition, 27–29 June 2016, Northwestern University, Evanston (Chicago) (USA).
- 2016 - Participation with publication presentation at DESIGN'16, International Design Conference. 16-19 May, 2016, Dubrovnik, Croatia.
- 2015 - Participation with presentation of publication and role of chairman and member of the Scientific Committee at 20th International Conference on Engineering Design ICED'15, Milan (Italy).
- 2015 - Participation with publication presentation at IDETC/CIE 2015, Boston (USA).
- 2014 - Participation with presentation of two publications and chairman role at HCII 2014, Crete (Greece).
- 2014 - Component of the Program Committee of JCM2014 - Joint conference on Mechanical, Design Engineering & Advanced Manufacturing, Tolosa (Francia).
- 2013 - Participation with publication presentation at ICED'13, Seoul (Korea).
- 2013 - Participation with presentation of publication and role of chairman at HCII 2013, Las Vegas (USA).
- From 2013 to 2018 - Member of the international association Design Society.
- 2012 - Participation with publication presentation at CIRP Design 2012, Bangalore (India).
- 2011 - Participation with publication presentation at WINVR 2011, Milan (Italy).
- 2011 - Participation in IMPROVE 2011, Venice (Italy).
- 2009 - Participation in Workshop Ing-Ind/15. Turin (Italy).
- 2008 - Partecipazion as chairman at AMST '08 Advanced Manufacturing System and Technology, Udine (Italy).
- 2008 - Participation in Workshop Ing-Ind/15. Montebudello (Bologna) (Italy).
- 2008 - Participation with publication presentation at ASME-IDETC/CIE 2008. New York (USA).
- 2007 - Participation with presentation of publications at ADM International Conference on Design Tools and Methods in Industrial Engineering. Perugia (Italy).
- 2007 - Participation in Workshop Ing-Ind/15. Florence (Italy).
- 2006 - Participation as organizer and speaker at Forum "How to compete by integrating processes for product development: methodologies, benefits and limits". Pordenone (Italy).
- 2006 - Participation with publication presentation at ASME-IDETC/CIE 2006, Philadelphia (Pennsylvania) (USA).
- 2006 - Participation with publication presentation at CIRP-ICME Intelligent Computation in Manufacturing Engineering. Ischia (Italy).
- 2005 - Participation with presentation of publication and role of member of the organizing committee at AMST '05 Advanced Manufacturing System and Technology. Udine (Italy).
- 2005 - Participation in Workshop Ing-Ind/15. Pisa (Italy).
- 2004 - Participation with presentation of publication at ISPE-CE 2004. Beijing (China).
- 2004 - Participation with presentation of publications at ADM International Conference on Design Tools and Methods in Industrial Engineering. Bari (Italy).
- 2004 - Participation in workshop Ing-Ind/15. Bertinoro (Forli') (Italy).
- 2003 - Participation with publication presentation at ISPE-CE 2003. Madeira (Portugal).
- 2003 - Participation with publication presentation at EUROGRAPHICS 2003 Italian Chapter. Milan (Italy).

- 2003 - Participation with presentation of publications at ADM International Conference on Design Tools and Methods in Industrial Engineering. Naples (Italy).
- 2003 - Participation in workshop Ing-Ind/15. Erice (Trapani) (Italy).
- 2002 - Participation with presentation of publication at MOVIC 2002. Tokyo (Japan).
- 2002 - Participation as organizer and speaker at Forum "Design, prototyping and product data: integration and effective implementations". Pordenone (Italy).
- 2002 - Participation with presentation of publication at EUROGRAPHICS 2002 Italian Chapter. Milan (Italy).
- 2002 - Participation with presentation of publication and role of member of the organizing committee at AMST '02 Advanced Manufacturing System and Technology. Udine (Italy).
- 2002 - Participation in workshop Ing-Ind/15. Florence (Italy).
- 2001 - Participation with presentation of publication at FEATS2001. Valenciennes (France).
- 2001 - Participation with presentation of publication at Ingeggraf. Badajoz (Spain).
- 2001 - Participation with presentation of publication at ISPE-CE2001, Advances in CONCURRENT ENGINEERING. California (USA).
- 2001 - Participation with presentation of publications at ADM International Conference on Design Tools and Methods in Industrial Engineering. Rimini (Italy).
- 2001 - Participation with intervention on the progress of research activities in the ADM Study Day "Research Spaces for Design and Methods of Industrial Engineering". Amaro (Udine) (Italy). 2001.
- 2001 - Participation in workshop Ing-Ind/15. Perugia (Italy).
- 2000 - Participation at The fourth IFIP Working Group 5.2 - Workshop on Knowledge Intensive CAD - KIC4. Centro S. Elisabetta, Parma (Italy).
- 2000 - Participation with presentation of "Product Optimization: comparing classic and Knowledge Based approach in a case study" a Invention Machine Europe's: 4th Annual International User Group Meeting. Bergamo (Italia).
- 2000 - Participation in Workshop Ing-Ind/15. Parma (Italy).
- 1999 - Participation with presentation of publication at ADM International Conference on Design Tools and Methods in Industrial Engineering, Palermo (Italy).
- 1999 - Participation with presentation of publication and role of member of the organizing committee at AMST '99 Advanced Manufacturing System and Technology, Udine (Italy).
- 1996 - Speaker in the seminar "Methods of evaluation of interfaces for CAD systems" - COLLOQUIA '96 - Politecnico di Milano.
- 1994 - Speaker in the seminar "Artificial intelligence in human-machine interaction: idem, an on-line manager of default values" - Politecnico di Milano.
- 1993 - Speaker in the seminar "Sophisticated tools for solid modeling: problems and solutions provided by the development of a prototype of modeler by feature" - Politecnico di Milano.
- 1992 - Participation with presentation of publication at ISMCR '92. Tsukuba (Japan).
- 1991 - Participation with publication presentation at ANIPLA 1991. Milan (Italy).
- 1991 - Participation with presentation of publication in I.CO. GRAPHICS '91. Milan (Italy).

### Collaborations with international publishing

- Since 2020 - Reviewer for "Applied sciences" (MDPI)
- Since 2020 - Reviewer for "Multimodal Technologies and Interaction" (MDPI)
- Since 2019 - Associate Editor for "International Journal on Interactive Design and Manufacturing" (Springer)
- Since 2019 - Editorial Board Member for "International Journal on Interactive Design and Manufacturing" (Springer)
- Since 2015 - Reviewer for "International Journal of Advanced Manufacturing Technology" (Springer)

- Since 2015 - Reviewer for "Creativity and Information Management Journal" (Wiley)
- Since 2015 - Reviewer for "Behaviour & Information Technology" (Taylor & Francis)
- Since 2012 - Reviewer for "International Journal of Computer Science and Information Systems" (Iadis)
- Since 2011 - Reviewer for "Journal for Theory and Application in Mechanical Engineering" (Strojarstvo)
- Since 2010 - Reviewer for "Journal of Engineering Design" (Taylor & Francis)
- Since 2010 - Reviewer for "Interacting with Computers" (Elsevier)
- Since 2006 - Reviewer for "Knowledge-based systems" (Elsevier)
- Since 2006 - Reviewer for "Rapid Prototyping Journal" (Emerald)
- Since 2005 - Reviewer for "International Journal of Production Research" (Taylor & Francis)

### Prizes and awards

- 2019 - Second Best Paper to Motyl, B., Baronio, G., Speranza, D., Filippi, S. 2019. TDT-L0, a test-based method for assessing students' prior knowledge in engineering graphic courses. In the topic "Teaching-Learning in Graphic Engineering". Ingegraph19 - 29th International Conference on Graphics Engineering. Logrono, Spain. 19-21 June, 2019.

### Other

- 1998 - Contractor at the municipality of Asolo (Treviso) as head of the project "Start of the realization of an interactive computer model of the Roman aqueduct La Bot in the municipality of Asolo".
- 1997 - Contractor at the company FIDIA S.p.A. (Turin), with an assignment concerning the generation of the toolpath in the finishing of mechanical parts.
- 1996 - Contractor at the 3Dline Company (Milan), with an assignment concerning the development of medical applications dedicated to the development of radiotherapy instruments.
- 1993 - Contractor at the company OXYTECH of Rho (Milan), with an assignment concerning the development of an application dedicated to the lighting calculation of interiors based on commercial sources.
- 1991 - Contractor at the company TECNOSPAZIO of Baranzate di Bollate (Milan), with an assignment concerning the generation of models necessary for the simulation of a space mission for the collection of cometary soil samples.

### Publications

The up-to-date list of publications is [here](#) (in case of accessing problems, the list of publications can be download [here](#)).