

CURRICULUM VITAE

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General Information

- Full Professor of Operations Management at the Department of Management, Information and Production Engineering, University of Bergamo (SSD Ing-Ind 17)
- Past President of the Board of the U4I Foundation - University for Innovation funded by the University of Bergamo, the University of Milano Bicocca and the University of Pavia.
- Director of the Executive Master in Industrial Asset Management and Maintenance (Megmi) jointly created by Sdm-Scuola di Alta Formazione of the University of Bergamo and MIP-Politecnico di Milano.
- Coordinator of the MUR Ministerial Committee of Experts for "Innovation for Manufacturing Industry" for the creation and monitoring of the National Research Plan 2021-2027.
- Member of the Evaluation Committee of the National Scientific Qualification 2021-2023
- Director of SDM – School of Management – University of Bergamo (2016-2018).
- Chairman of the Joint Committee of the School of Engineering (2013-2016).
- Past President of AIDI (Italian Scientific Association of Industrial Systems Engineering Professors). (2015-2019).
- Member of IFIP Working Group 5.1 on *Advances in Production Management Systems* and of IFAC Technical Committee 5.1 on *Advanced Manufacturing Technology*.

Summary of the academic profile

Graduated at Politecnico di Milano in 1994 and then in 1998 I obtained a Doctorate in Management Engineering at the University of Padua. In 1999 I served as a researcher for SSD Ing-Ind 17 - Industrial Mechanical Plants at Politecnico di Milano and since 2001 at the University of Bergamo, first as an associate professor and since 2010 as a full professor.

As for the educational activities, in addition to teaching in the institutional courses of the degree courses at the Engineering Campus, I took care of the doctoral training as Vice Director of the DREAM Doctorate of the University of Bergamo in cooperation with the University of Pavia, and post-graduate training with the direction of the Executive Master in Industrial Asset Management and Maintenance realized by SdM-Scuola di Alta Formazione and by MIP-Politecnico di Milano, currently at its 17th edition and at the 1st place in the international ranking "*Best Master Ranking 2021*" in the category "Industrial and Operations Management".

As regards research and technology transfer activities, as head of CELS (*Research Group on Industrial Systems Engineering, Logistics and Service Operations*), within the Department of Management Engineering, Information and Production, I have been scientific coordinator of several research projects based on regional, national (PRIN and FISR) and European (Horizon 2020) calls, scientific director of more than 40 research agreements with industrial and service companies, national coordinator of the *Service Management Forum* and *Associate Editor* of international scientific journals as "*Journal of Intelligent Manufacturing*" and "*Computers & Industrial Engineering*".

Particularly involved over the years in the activities of *public engagement* as a scientific communicator, I have been invited as a guest at several national and international conferences and symposia (including the *World Manufacturing Forum*) on the topics of Advanced Manufacturing Systems, Industry 4.0 and *Smart Cities*. In the PE I played the role of scientific coordinator of the research project Bergamo 2.035 and the event *Bergamo Next Level* held in May 2021.

As for the management and organizational activities, I gained experience and expertise within our University as president of the first Joint Committee of the School of Engineering established in 2013, as a member of the Board of University of Bergamo from 2012 to 2015, as Vice-Chancellor for Innovation, Technology Transfer, and Valorisation of Research from 2015, from 2016 to 2018 as Director of *Sdm-Scuola di Alta Formazione of the University of Bergamo*, and in 2018 as a member of the Board of the *U4I Foundation - University for Innovation*.

Coordinator of the MUR Ministerial committee of experts for Innovation for Manufacturing Industry in the National Research Plan 2021-2027, member of the commission of maintenance UNI, member of the scientific committee of the CI-LAM (*China-Italy Lab on Advanced Manufacturing*), member of the Technical-Scientific

Committee of AFIL (Associazione Fabbrica Intelligente Lombarda), member of the evaluation committee of the National Scientific Qualification (ASN) 2021 - 2023, I have been an evaluator of numerous national and international research programmes.

Teaching Activities

Professor, over the years, at the University of Bergamo of the following courses:

- Production Management
- Supply Chain Management
- Operations Management
- Healthcare Operations Management
- Factory Layout Planning at the undergraduate and graduate programs of Mechanical Engineering
- Management Engineering

Head and member of doctoral colleges of the following post-graduate training courses:

- Director of the University Master in *Industrial Asset Management and Maintenance* promoted by Sdm – Scuola di Alta Formazione of the University of Bergamo and MIP Politecnico di Milano.
- Director of the Advanced Training Course in *Cleaning Management* promoted by Sdm – Scuola di Alta Formazione of the University of Bergamo.
- Member of the Faculty of the Phd Course in *Technology and Innovation in Management* promoted by the University of Bergamo and the University of Naples Federico II.
- Assistant Director of the Phd Course in *Economics and Management of Technology* promoted by the University of Pavia and the University of Bergamo (until 2016)
- Member of the Faculty of the Phd Course in *Logistics and Supply Chain Management* promoted by the University of Bergamo in cooperation with the Italcementi Foundation (until 2012).

Supervision of research projects

2020 – 2021 – Scientific responsible of the project “*STEPS - Definition of a simulative model to support decisions for the design of flows of people in evolving pandemic scenarios*” funded by the MUR under the FISR 2020 program.

2018 – 2021 – Scientific responsible for University of Bergamo of *CI-LAM (China-Italy Lab on Advanced Manufacturing Systems)* in cooperation with Tsinghua University and University of Naples Federico II.

2014 – 2017 – Scientific responsible for the University of Bergamo Research Unit of the H2020 FoF2014 research project *"DIVERSITY - Cloud Manufacturing and Social Software Based Context Sensitive Product-Service Engineering Environment for Globally Distributed Enterprise"* .

2013 – 2015 – Scientific supervisor of the project *"Engineering and assessing condition based maintenance product-service solutions"* selected for funding by the ABB Research Grant Program launched by ABB Corporate Research, Germany

2012 –2015 – Scientific Director of "Bergamo 2.(035) – A new Urban Concept for a New World" funded by Italcementi Foundation

2011 – 2014 – Scientific coordinator of *PROSSALIC (PROduct-Service System Across Life Cycle)*, a FP7-PEOPLE-2010-IRSES Marie Curie Actions–International Research Staff Exchange Scheme (IRSES) with the involvement of the following partners: Ort Braude College (Israel), Mays Business School Texas University (USA), Cranfield University (UK), University of Aalborg (Denmark), University of Florence (Italy), University Federal de Rio Grande (Brasil), Tokyo Metropolitan University (Japan), University of South Australia (Australia)

2011 – 2014 – Scientific responsible for University of Bergamo *Research Unit of "SIGI-X - A Business template for one-of-a-kind companies"*, a research project funded within the Industria 2015 - Made in Italy national research program.

2010 – 2012 - Scientific responsible for University of Bergamo Research Unit of *"ESA (Electric Signature Analysis) for predictive maintenance"* funded by the Lombardy regional research program.

2007 – 2009 – Scientific coordinator of the *"PROPHET (PROgnostic Platform for accomplisHing Experimentation and Testing)"* project funded by the INTELLIMECH Research Consortium (www.intellimech.it)

2006 – 2009 – Member of the *Technical Development Steering Committee of the Supply Chain Council* and Coordinator of the development team of CCOR (Customer Chain Operations Reference Model).

2004 – 2007 – Scientific responsible of the European Project *"ESCM - An internet-based education/training platform in the field of supply chain management for students, teachers and industrial employees"* funded by the Leonardo Da Vinci program

2006 – Coordinator and scientific responsible of the European project *"LOG4SMEs - Improving Logistics performance of SMEs in the Automotive Sector"* carried out in collaboration with the Fraunhofer Institute for Manufacturing Engineering and

Automation, Stuttgart and Széchenyi Gyor University, funded by the INTERREG Regins program

2002 – 2005 – Scientific coordinator of the research activities of the “*Special Interest Group on Benchmarking and Performance Measurement*” – jointly coordinated with Dr. Paul Valckenaers – KU Leuven (BE) – within the Network of Excellence IMS (*Intelligent Manufacturing Systems*).

2005– 2009 – National Coordinator of the ASAP – Service Management Forum (www.asapsmf.org).

2002 –2004 – National coordinator and scientific responsible of the national PRIN project 2002 “*ASAP (After Sales Advanced Planning)*”, in collaboration with University of Brescia, University of Florence, Politecnico di Milano and Università Commerciale Luigi Bocconi

Coordination and scientific supervision of technology transfer projects

Coordinator of over 40 technology transfer projects on behalf of industrial and service companies, industrial consortia and associations in the thematic areas of Operations Management, Logistics and Supply Chain Management, Maintenance and Management of Industrial Assets, Service Engineering.

Among them, the following can be cited:

- *ENERGY AUDIT - Delivering accurate and cost-effective energy audits, in collaboration with Innowatio SpA.*
- *SERVICE MAINTENANCE - Optimization of preventive maintenance intervals based on reliability analysis and service level agreement, in collaboration with CMS SpA*
- *V-LOG - Strategic inventory decision in the vending sector, in collaboration with IVS SpA*
- *LODIS - Distribution logistics analysis for an automotive company operating in the aftermarket industry, in collaboration with Brembo SpA*
- *FOREPLAN - Forecasting and Planning in the automotive sector, in collaboration with Same Deutz Fahr SpA*
- *FMECA analysis for the analysis of ways and effects of failure on critical plant components, commissioned by the company Balance System SpA.*
- *Study of industrial process management models through RFID systems, commissioned by Balluff Spa.*
- *Analysis and optimisation of logistics flows for the restoration of shelf availability of the exhibition area and related information flows, commissioned by the company Metro Cash & Carry Spa.*

- *SIMAN - Engineering the maintenance system of a water utility company, in collaboration with Uniacque SpA*

Organisation of scientific events and participation in scientific committees

- General Chair at 16th and 17th edition of Industrial Systems Engineering - Summer School F. Turco (7-9 september 2020, 8-10 september 2021)
- General Chair at 16th IFAC Symposium on Information Control Problems in Manufacturing, Bergamo 11-13/06/2018 promoted by IFAC TC5.
- General Chair at PALM Doctoral Workshop on Product and Asset Lifecycle Management, 4-6 june 2012, in collaboration with University of Catania, sponsored by IFIP WG5.7.
- Scientific Coordinator of the PhD workshops of APMS (Advances in Production Management Systems) Conferences organized by IFIP WG 5.7 in the editions 2010 (Como, Italy), 2012 (Rodhos, Greece) and 2013 (Penn State, USA).
- Member of International Scientific Committees of several conferences organised by IFIP WG 5.7, IFAC TC 5.
- Member of UNI - Maintenance Committee.
- Member of Technical Committee 5.1 on Advanced Manufacturing Technology.
- Member of IFIP Working Group 5.1 on Advances in Production Management Systems.

Awards

2025 Distinguished Visiting Professor at Tsinghua University, China

2023 Honorary PhD from Technical University Riga (Latvia).

2006 Award for Supply Chain Academic Excellence from Supply Chain Council.

1997 Fulbright Scholarship 1997/98 for visiting period in USA.

1994 First Prize at the ANIMP National Contest (Associazione Nazionale di Impiantistica Industriale) for the best MSc thesis.

Associate/Guest editorship on indexed scientific journals

- Associated Editor of *Journal of Intelligent Manufacturing*, Springer.
- Associated Editor of *Computers and Industrial Engineering*, Elsevier.
- Invited Guest Editor of the Special Issue on "Application of Multi-agent Systems to PP&C", published on *Production Planning and Control*, Vol. 15, No. 2, March 2004.

- Invited Guest Editor of the Special Issue on “Implementation of performance measurement systems: private and public sectors”, published on *Production Planning and Control*, Vol. 16, No. 2, 2005.
- Invited Guest Editor of the Special Issue on “Benchmarking and Performance Measurement of Production Scheduling Systems”, published on *Computers in Industry*, Vol. 58, No. 7. 2007.
- Invited Guest Editor of the Special issue on “Product–Service System Engineering” published on *Computers in Industry*, Vol. 63, Issue 4, May 2012.
- Invited Guest Editor of the Special Issue on “Organisational transformation in servitization” *Production Planning & Control: The Management of Operations*, Taylor & Francis, 2015, Vol.26, Issue 14-15.
- Editor of Service Orientation in Holonic and Multi-Agent Manufacturing (Borangiu T.; Trentesaux D., Thomas, A.; Cavalieri, S.) *Springer*, 2018, ISBN 978-3-030-03002-5.
- Invited Guest Editor of the Special Issue on “Service Transformation in Industrial Companies” *International Journal of Production Research*, Volume 56, 2018 - Issue 6.
- Invited Guest Editor of the Special Issue on “New research advances on Product Service System along the Lifecycle” *CIRP Journal of Manufacturing Science and Technology*, Volume 29, Part B, 2020.
- Invited Guest Editor of the Special Issue on “Human-technology integration in smart manufacturing and logistics” *Computers & Industrial Engineering*, on-going.

Main scientific publications in scientific journals and book chapters

- Cimini Chiara, Galimberti Mattia, Cavalieri Sergio, Copani Giacomo; (2024) A sustainability-oriented tool for evaluating servitization business models in the steel sector, *PROCEDIA COMPUTER SCIENCE*, pp. 2984-2993, <https://dx.doi.org/10.1016/j.procs.2024.02.114>
- Cimini Chiara, Lagorio Alexandra, Cavalieri Sergio; (2024) Development and application of a maturity model for Industrial Agile Working, *COMPUTERS & INDUSTRIAL ENGINEERING*, pp. 1-14, <https://dx.doi.org/10.1016/j.cie.2023.109877>
- Jadidi Omid, Cavalieri Sergio, Firouzi, Fatemeh (2024) Supplier selection and order allocation problem under demand and supply uncertainty with return policy, *APPLIED MATHEMATICAL MODELLING*, vol. 133 pp. 65-78, <https://dx.doi.org/10.1016/j.apm.2024.05.014>
- Sala Roberto, Pirola Fabiana, Pezzotta Giuditta, Cavalieri, Sergio (2024) Leveraging Natural Language Processing for enhanced remote troubleshooting in Product-Service Systems: A case study, *PROCEDIA COMPUTER SCIENCE*, pp. 1259-1268, <https://dx.doi.org/10.1016/j.procs.2024.01.124>
- Sala Roberto, Pirola Fabiana, Pezzotta Giuditta, Cavalieri Sergio; (2023) Improvement of maintenance-based Product-Service System offering through field

data: a case study, PRODUCTION & MANUFACTURING RESEARCH, pp. 1-25, <https://dx.doi.org/10.1080/21693277.2023.2278313>

- Cimini Chiara, Pirola Fabiana, Cavalieri Sergio; (2023) Challenges and expectations about 5G in the industry: evidence from survey-based research, INTERNATIONAL JOURNAL OF MANUFACTURING TECHNOLOGY AND MANAGEMENT, pp 492-511, <https://dx.doi.org/10.1504/IJMTM.2023.133688>
- Cimini Chiara, Romero David, Pinto Roberto, Cavalieri Sergio (2023) Task Classification Framework and Job-Task Analysis Method for Understanding the Impact of Smart and Digital Technologies on the Operators 4.0 Job Profiles, SUSTAINABILITY, Vol. 15 pp. 1-28, <https://dx.doi.org/10.3390/su15053899>
- Lagorio Alexandra, Cimini Chiara, Pinto Roberto, Cavalieri Sergio (2023) 5G in Logistics 4.0: potential applications and challenges, PROCEDIA COMPUTER SCIENCE, Vol. 217 pp. 659-659, <https://dx.doi.org/10.1016/j.procs.2022.12.261>
- Cimini Chiara, Lagorio Alexandra, Pinto Roberto, Pezzotta Giuditta, Adrodegari Federico, Cavalieri Sergio (2023) 5G supporting digital servitization in manufacturing: An exploratory survey, IET COLLABORATIVE INTELLIGENT MANUFACTURING, Vol. 5 pp. 1-15, <https://dx.doi.org/10.1049/cim2.12083>
- Sala Roberto, Venuta Marco, Pirola Fabiana, Pezzotta Giuditta, Cavalieri Sergio; (2022) IoT platform-enabled decision-making for maintenance service delivery in PSS context: a case study, INTERNATIONAL JOURNAL OF PRODUCT LIFECYCLE MANAGEMENT, pp. 206 - 230, <https://doi.org/10.1504/IJPLM.2022.10050746>
- Venuta Marco, Pirola Fabiana, Zambetti Michela, Pezzotta Giuditta, Cavalieri Sergio, Grasseni Piergiorgio, Ferrari Marco, Salvi Stefano; (2022) Development and Implementation of an IoT Platform to Enable Smart Maintenance In: Cases on Optimizing the Asset Management Process, pp. 373 - 394, <https://doi.org/10.4018/978-1-7998-7943-5.ch015>
- Pirola Fabiana, Pezzotta Giuditta, Mohammadi Amlashi Danial, Cavalieri Sergio; (2022) Design and Engineering of Product-Service Systems (PSS): TheSEEM Methodology and Modeling Toolkit. In: Karagiannis, D., Lee, M., Hinkelmann, K., Utz, W. (eds) Domain-Specific Conceptual Modeling. Concepts, Methods and ADOxx Tools, pp. 385 - 407, https://doi.org/10.1007/978-3-030-93547-4_17,
- Cimini Chiara, Lagorio Alexandra, Cavalieri Sergio, Riedel Oliver, Pereira Carlos E., Wang Jason; (2022) Human-technology integration in smart manufacturing and logistics: current trends and future research directions, COMPUTERS & INDUSTRIAL ENGINEERING, pp. 1 - 4, <https://doi.org/10.1016/j.cie.2022.108261>,
- Sala Roberto, Pirola Fabiana, Pezzotta Giuditta, Cavalieri Sergio; (2022) Data-Driven Decision Making in Maintenance Service Delivery Process: A Case Study, APPLIED SCIENCES, pp. 1 - 17, <https://doi.org/10.3390/app12157395>

- Gaiardelli, Paolo, Pezzotta, Giuditta, Rondini, Alice, Romero, David, Jarrahi, Farnaz, Bertoni, Marco, Wiesner, Stefan, Wuest, Thorsten, Larsson, Tobias, Zaki, Mohamed, Jussen, Philipp, Boucher, Xavier, Bigdeli, Ali, Cavalieri, Sergio (2021). Product service systems evolution in the era of Industry 4.0. *Service Business*, p. 1-31 ISSN: 1862-8516, doi: 10.1007/s11628-021-00438-9.
- Cimini C., Pezzotta G., Lagorio A., Pirola F., Cavalieri S.; (2021) How can hybrid simulation support organizations in assessing covid-19 containment measures?, *HEALTHCARE*, pp. 1 - 24, <https://doi.org/10.3390/healthcare9111412>.
- Gaiardelli, Paolo, Pezzotta, Giuditta, Rondini, Alice, Romero, David, Jarrahi, Farnaz, Bertoni, Marco, Wiesner, Stefan, Wuest, Thorsten, Larsson, Tobias, Zaki, Mohamed, Jussen, Philipp, Boucher, Xavier, Bigdeli, Ali, Cavalieri, Sergio(2021). Product service systems evolution in the era of Industry 4.0. *Service Business*, p. 1-31 ISSN: 1862-8516, doi: 10.1007/s11628-021-00438-9.
- Cimini, C., Pirola, F., Pinto, R., Cavalieri, S. (2020). A human-in-the-loop manufacturing control architecture for the next generation of production systems. *Journal of Manufacturing Systems*, vol. 54, p. 258-271, ISSN: 0278- 6125, doi: 10.1016/j.jmsy.2020.01.002
- Cavalieri, Sergio, Cimini, Chiara (2020). From Mass Production to Smart Manufacturing: an Evolutionary Trajectory and an Agenda for Future Research. In: *2020 Intelligent Manufacturing Report*. p. 151-168, International Coalition of Intelligent Manufacturing (ICIM).
- Fasanotti, L.; Cavalieri, S.; Dovere, E.; Gaiardelli, P.; Pereira, C. E. (2018) An artificial immune intelligent maintenance system for distributed industrial environments. *Journal of Risk and Reliability*, Vol. 232, issue 4, pp. 401-414 doi: 10.1177/1748006X18769208
- Rondini, A.; Pezzotta, G.; Cavalieri, S.; Ouertani, M.; Pirola, F. (2018) Standardizing delivery processes to support service transformation: A case of a multinational manufacturing firm. *Computers in industry*, Vol. 100, pp.115-128, DOI: 10.1016/j.compind.2018.04.010
- Cavalieri, S.; Ouertani, Z.M.; Zhibin, J.; Rondini, A. (2017) Service transformation in industrial companies. *International Journal of Production Research*, Taylor and Francis Ltd., ISSN: 0020-7543, DOI: 10.1080/00207543.2017.1378830, pp. 1-4.
- Resta, B.; Gaiardelli, P.; Cavalieri, S.; Dotti, S. (2017) Enhancing the Design and Management of the Product-Service System Supply Chain: An Application to the Automotive Sector. *Service Science*, Vol. 9 Issue 4, December 2017, pp. 302-314, doi: 10.1287/serv.2017.0193.
- Cimini, C.; Pinto, R.; Cavalieri, S. (2017) The business transformation towards smart manufacturing: a literature overview about reference models and research agenda.

IFAC-PapersOnLine, Vol. 50, Issue 1, pp. 14952–14957, DOI: 10.1016/j.ifacol.2017.08.2548.

- Gingu (Boteanu), E.I.; Zapciu, M.; Cavalieri, S. (2017) Production Systems Flow Modelling Using Decomposition Method and Required Buffers. *International Journal of Simulation Modelling*, Vol. 16, No. 2, pp. 207–218, ISSN 1726–4529.
- Pezzotta, G.; Cavalieri, S.; Romero, D. (2017) Engineering Value Co-Creation in Product-Service Systems: Processes, Methods, and Tools. In: *Handbook of Research on Strategic Alliances and Value Co-Creation in the Service Industry*, pp. 22–36, ISBN: 9781522520849, DOI: 10.4018/978-1-5225-2084-9.ch002.
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- Cavalieri, S.; Rapaccini, M.; Pezzotta, G.; Sacconi, N. (2016) Research and Education in Service Science Management and Engineering: The Case of the Italian Service Management Forum. In: *Exploring Services Science*. (Borangiu, T.; Dragoicea, M.; Nóvoa, H. eds.), Springer International Publishing, pp. 750–760, Doi. 10.1007/978-3-319-32689-4_58, ISBN 978-3-319-32688-7, ISSN 1865–1348.
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- Gaiardelli, P., Martinez, V., Cavalieri, S. (2015) The strategic transition to services: a dominant logic perspective and its implications for operations. In: *Production Planning & Control: The Management of Operations*, Taylor & Francis, Vol.26, Issue 14–15, pp. 1165–1170.
- Fasanotti, L. Cavalieri, S., Ierace, S., Pereira, C. E., Zuccolotto, M. (2015) A biomimetic approach to distributed maintenance management based on a multi-agent system. In: *Industrial Agents: emerging applications of software agents in industry*. (Leitão, P. and Karnouskos, S. Eds.), pp. 361–379, Elsevier.
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- Legnani, E., Cavalieri, S. Pinto, R., Dotti, S. (2011). The potential of RFID technology in the textile and clothing industry - Opportunities, requirements and challenges, in (Eds.): *Unique Radio Innovation for the 21st Century: Building Scalable and Global RFID Networks*, pp. 309-329, Springer, ISBN: 978-3-642-03461-9

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