

CURRICULUM VITAE

SERGIO CAVALIERI



CURRENT POSITION

Full Professor of Operations Management at the *Department of Management, Information and Production Engineering, University of Bergamo* (<http://www.unibg.it>).

Vice-Chancellor for Innovation, Technology Transfer and Valorisation of Research at the *University of Bergamo*

Past Director of *SDM – School of Management – University of Bergamo* (<http://sdm.unibg.it>)

Director of *CELS – Research Group on Industrial Engineering, Logistics and Service Operations* – established within the Department of Engineering, University of Bergamo. The Group currently counts on 4 senior researchers and 8 fellow and associate researchers (for more details on CELS activities please refer to: <http://cels.unibg.it>).

President of *AIDI (Italian Scientific Association of Industrial Systems Engineering Professors)*.

EDUCATION

Mar. 1998 – Jul. 1998 – Post-doc Visiting Scientist at the Robotics Institute at *Carnegie Mellon University*, Pittsburgh (USA) with a Fulbright scholarship.

Feb. 1995 – Feb. 1998 - PhD candidate in Management and Production Engineering at *Politecnico di Milano* with final dissertation on “Application of multi-agent architectures for scheduling and control of production systems”.

Oct. 1987 – Jul. 1994 - Master of Science in Management and Production Engineering at *Politecnico di Milano* with final grade 100/100.

SUPERVISION OF RESEARCH PROJECTS

Since October 2014 – 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”

Since January 2013 – 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; the grant has been confirmed also for 2014 and 2015

Since October 2012 – Scientific Director of “*Bergamo 2.(035) – A new Urban Concept for a New World*” funded by Italcementi Foundation

Since July 2011 - 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)

Since January 2011 – 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

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

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

Jun. 2006 – Dec. 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).

Oct. 2004 – Mar. 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

Jan. 2006 – Nov. 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

Jun. 2002 – Dec. 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).

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

Dec. 2002 – Dec. 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 SUPERVISION OF INDUSTRIAL PROJECTS

He has coordinated several industrial and technology transfer projects in collaboration with industrial companies and associations in the application areas of Supply Chain Management, Operations Management, Service Operations and Engineering, Industrial Asset Management.

Among them, the following ones can be cited:

- *PRETERIM - A predictive maintenance plan based on infrared thermography*, in collaboration with Brembo SpA
- *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
- *SIMAN - Engineering the maintenance system of a water utility company*, in collaboration with Uniacque SpA
- *RFID - Application of the RFID technology in tool management*, in collaboration with Balluff SpA

TEACHING ACTIVITIES

Since 2004 – Director of the post-graduate Master Executive in “Industrial Asset Management”, jointly organized by MIP - Politecnico di Milano and SdM – School of Management of University of Bergamo

Since 2001 – Professor of the following courses: Production Management, Operations Management, Supply Chain Management, Factory Layout Planning at the undergraduate and graduate programs of Mechanical Engineering and Management Engineering at University of Bergamo

Since 2000 – Faculty Member of MIP –Politecnico di Milano with lectures at the Executive MBA.

1996 - 2000 – Professor of Automated Production Systems at Politecnico di Milano (Lecco site)

PARTICIPATION TO PHD COMMITTEES

He has been Vice Director of the “*DREAMT - Economics and Management of Technology*” PhD program jointly delivered by University of Bergamo and University of Pavia.

He is (or has been) supervisor of 8 PhD theses, having, as major topics, Industrial Asset Management, Performance Measurement Systems in After Sales Services, Service Engineering, Risk Management in Supply Chains.

Moreover, he has been appointed as PhD discussant by several distinguished international Schools.

PARTICIPATION AS REVIEWER OF PROJECT PROPOSALS IN NATIONAL OR INTERNATIONAL RESEARCH PROGRAMMES

2010 – 2013 - MIUR - Italian Ministry of Research - Reviewer of project proposals.

2010 - Israeli Science Foundation (ISF) - Individual Research Grant Programme - Reviewer of project proposal

2010 - *City University Hong Kong* - Strategic Research Grant - Reviewer of project proposal

2013 - *FCT - Portuguese National Research Agency* – Reviewer and Member of the assessment panel of the “Exploratory Research Projects 2013” Call.

2013 - *Austrian Science Fund (FWF)* - Special Research Programme - Reviewer of project proposal.

PARTICIPATION TO COMMITTEES FOR REVIEW OF APPLICATIONS FOR PROFESSORSHIP

He has been appointed as reviewer for application:

- for full professorship by KING ABDULAZIZ UNIVERSITY (Saudi Arabia) in 2011
- for adjunct professorship by NTNU Trondheim University in 2012
- for associate professorship by LTU - Technical University of Luleå in 2012
- for full professorship by Narvik University College in 2014 and 2015

PARTICIPATION TO SCIENTIFIC ASSOCIATIONS AND REGULATORY BODIES

- Member of *UNI – Maintenance Committee*.
- Member of *IFAC Technical Committee 5.1 on Advanced Manufacturing Technology*.
- Member of *IFIP Working Group 5.1 on Advances in Production Management Systems*.

ORGANISATION OF SCIENTIFIC EVENTS AND PARTECIPATION TO SCIENTIFIC COMMITTEES

- Scientific organizer of the *16th IFAC Symposium on Information Control Problems in Manufacturing*, 11-13 June 2018.
- Scientific organizer of the *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: among them the 2011 (Stavange, Norway), 2012 (Rodhos, Greece), 2013 (Penn State, USA) and 2014 (Ajaccio, France) of the *APMS Conference* organized by IFIP WG 5.7, of the *INCOM 2012 Symposia* organized by IFAC TC 5.1, of the *IMS Workshop 2013* (Sao Paulo, Brasil) organized by IFAC TC 5.1, of *IPS2 CIRP 2015 Conference* (St Etienne, France) organized by CIRP.

AWARDS

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.

MAIN SCIENTIFIC PUBLICATIONS

SERGIO CAVALIERI



He has been:

- 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, Vol.26, Issue 14-15;
- Invited Guest Editor of the Special Issue on “Service Transformation in Industrial Companies” *International Journal of Production Research*, Taylor & Francis, in press;
- 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*, ongoing.

In addition, he has been so far:

- editor of 5 books;
- author of more than 100 papers published in international scientific journals, book chapters and proceedings of International conferences;

LIST OF PAPERS PUBLISHED ON INTERNATIONAL JOURNALS OR BOOK CHAPTERS

- Cavalieri, S.; Ouertani, Z.M.; Zhibin, J.; Rondini, A. (2017) Service transformation in industrial companies. In *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. In *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. In *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. In *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.
- Dovere, E.; Cavalieri, S.; Ierace, S. (2016) RFID systems for moveable asset management: an assessment model. In: International Journal of Production Research, pp. 1-14, Doi: 10.1080/00207543.2016.1207818.
- Cavalieri, S.; Rapaccini, M.; Pezzotta, G.; Saccani, 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.
- Resta, B.; Gaiardelli, P.; Cavalieri, S.; Dotti, S. (2016) Designing and Configuring the Value Creation Network for Servitization. In: Exploring Services Science (Borangiu, T.; Dragoicea, M.; Nóvoa, H. eds.), Springer International Publishing, Vol. 247 of the series Lecture Notes in Business Information Processing, pp. 457-470, DOI 10.1007/978-3-319-32689-4_35, ISBN 978-3-319-32688-7.
- Jadidi, O.; Cavalieri, S.; Zolfaghari, S. (2015) An improved multi-choice goal programming approach for supplier selection problems. In Applied Mathematical Modelling, Volume 39, Issue 14, 15 July 2015, pp. 4213-4222, DOI: 10.1016/j.apm.2014.12.022, ISSN: 0307904X.
- 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.
- Jadidi, O., Zolfaghari, S., Cavalieri, S. (2014). A new normalized goal programming model for multi-objective problems: A case of supplier selection and order allocation, *International Journal of Production Economics*, Vol. 148, pp. 158-165.
- Hertz, P., Cavalieri, S., Finke, G.R., Duchi, A., Schönsleben, P. (2014) A simulation-based decision support system for industrial field service network planning. *Simulation*, Vol. 90 No. 1 Pg. 69-84.
- Ierace, S., Cavalieri, S. (2013) An analytic hierarchy process based model for the selection of decision categories in maintenance systems. *Management and Production Engineering Review*, Vol. 4, No. 2, pp. 37-49
- Legnani, E., Cavalieri S., Gaiardelli P. (2013). Modelling and Measuring After-Sales Service Delivery Processes”, In: *Service Orientation in Holonic and Multi Agent Manufacturing and Robotics*. Borangiu T., Trentesaux, D. and Thomas A. Eds. Studies in Computational Intelligence book series, No. 472 pp. 71-84, Springer, London.
- Pezzotta G., Cavalieri S., Gaiardelli P., (2012). A spiral process model to engineer a product service system: an explorative analysis through case studies, *CIRP Journal of Manufacturing Science and Technology* Vol.5, No.3, pp.214-225
- Cavalieri, S., Pezzotta, G. (2012) Product–Service Systems Engineering: State of the art and research challenges, *Computers in Industry*, Volume 63, Issue 4, May 2012, pp. 278–288
- 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

- Macchi, M., Fumagalli, L., Pinto, R., Cavalieri, S., (2011). A decision making framework for managing maintenance spare parts in case of lumpy demand: an action research in the avionic sector, in Altay N.; Litteral L.A. (Eds.): *Service Parts Management Demand Forecasting and Inventory Control*, pp. 171-202, Springer-Verlag London Limited, ISBN: 978-0-85729-038-0
- Cavalieri S., Ghislandi W., (2010) Understanding and using near-misses properties through a double step conceptual structure, *Journal of Intelligent Manufacturing Systems*, Vol.21, No.2, pp. 237-247.
- Legnani E., Cavalieri S., Ierace S. (2009). A framework for the configuration of after-sales service processes, *Production Planning and Control*, Vol. 20, No. 2, pp. 113 – 124.
- Gaiardelli P., Cavalieri S., Sacconi N. (2008). Exploring the relationship between After-Sales service strategies and Design For X methodologies, *International Journal on Product Lifecycle Management (IJPLM)*, Vol. 3, No. 4, pp. 261-278.
- Cavalieri, S., Garetti, M., Macchi, M., Pinto, R. (2008). A decision making framework for managing maintenance spare parts, *Production Planning and Control*, Volume 19, Issue 4 June 2008 , pp. 379 – 396, Taylor&Francis.
- Cavalieri, S., Valckenaers, P., Bititci, U., Bandinelli, R., Mendibil, K. (2007). Performance Measurement Systems in Manufacturing: State-of-the-Art and Future Trends, In: *Advanced Manufacturing: An ICT and Systems Perspective* (Thoben. K.D., Montorio, M. Taisch, M. (Eds.), pp. 159-178. ISBN: 9780415429122.
- Cavalieri S., Gaiardelli P., Ierace S. (2007). Aligning strategic profiles with operational metrics in after sales service, *International Journal of Productivity and Performance Management*, Vol. 56, No. 5/6, pp. 436-455.
- Cavalieri, S., Terzi, S., Macchi. M. (2007). A Benchmarking Service for the Evaluation and Comparison of Scheduling Techniques, *Computers in Industry*, Vol. 58, No. 7, pp. 656-666.
- Cavalieri, S., Maccarrone, P., Pinto, R. (2006). Neural Network Models For The Estimation Of Product Costs: An Application In The Automotive Industry, In: *Neural Networks in Finance and Manufacturing* (Eds., Kamruzzaman J, Begg R. Sarker, R. A.), Idea Group Publishers, ISBN 1591406706.
- Valckenaers P., Cavalieri, S., Saint Germain, B., Verstraete, P., Hadeli, Bandinelli, R., Terzi, S., Van Brussel, H. (2006). A benchmarking service for the manufacturing control research community, *Journal of Intelligent Manufacturing*, Vol. 17, No. 6, pp. 667-679.
- Cavalieri, S., Terzi, S. (2006). Proposal of a performance measurement system for the evaluation of scheduling solutions, *International Journal of Manufacturing Technology and Management*, Vol. 8, No. 1/2/3, pp. 248 – 263.
- Caridi, M., Cavalieri, S., Diazi, G., Pirovano, C. (2004). Assessing the impact of e-Procurement strategies through the use of business process modelling and simulation techniques, *Production Planning & Control*, Vol. 15, No. 7, October 2004, pp. 647–661, Taylor&Francis.
- Cavalieri, S., Maccarrone, P., Pinto, R., (2004). Parametric vs. neural network models for the estimation of production costs: a case study in the automotive industry, *International Journal of Production Economics*, Vol. 91, N. 2, September 2004, pp. 165 – 177.

- Caridi, M., Cavalieri, S. (2004). Multi-agent systems in production planning and control: an overview, *Production Planning and Control*, Volume 15, N. 2, March 2004, pp. 106 – 118, Taylor&Francis.
- Terzi S., Cavalieri S. (2004). Simulation in the supply chain context: a survey, *Computers in Industry*, Vol. 53 N. 1, January 2004, pp. 3-16 .
- Cavalieri, S., Macchi, M., Valckenaers, P. (2003). Benchmarking the performance of manufacturing control systems: design principles for a web-based simulated testbed, *Journal of Intelligent Manufacturing*, Vol.14, N. 1, January 2003, pp. 43-57, Kluwer Academic Publishers.
- Cavalieri, S., Cesarotti, V., Introna, V. (2003). A multiagent model for coordinated distribution chain planning, *Journal of Organizational Computing and Electronic Commerce*, Vol. 13 N. 3-4, pp. 267-287.
- Cavalieri, S., Garetti, M., Macchi, M., Taisch, M. (2000). An experimental benchmarking of two multiagent systems for production scheduling and control, *Computers in Industry*, Vol. 43, pp. 139 – 152, Elsevier Science.
- Cavalieri, S., Gaiardelli, P. (1998). Hybrid Genetic Algorithms for a Multiple-Objective Scheduling Problem, *Journal of Intelligent Manufacturing*, Vol. 9, N. 4, pp. 361-367, August 1998, Kluwer Academic Publishers.

LIST OF PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

- Sala, R.; Zanetti, V.; Pezzotta, G.; Cavalieri, S. (2017) The role of technology in designing and delivering Product-service Systems. In 2017 International Conference on Engineering, Technology and Innovation (ICE/ITMC) in Funchal (Madeira Island, Portugal), doi: 10.5281/zenodo.836669, ISBN: 978-1-5386-0774-9.
- Fasanotti, L.; Dovere, E.; Cagnoni, E.; Cavalieri, S. (2016) An Application of Artificial Immune System in a Wastewater Treatment Plant. In 3rd IFAC Workshop on Advanced Maintenance Engineering, Services and Technology AMEST 2016 Biarritz, France, 19—21 October 2016, Elsevier, Issue 28, pp. 55-60, doi: 10.1016/j.ifacol.2016.11.010.
- Benedetti, M.; Rondini, A.; Introna, V.; Cesarotti, V.; Cavalieri, S. (2016) Service Engineering Methodology and Energy Services: Applicability Analysis and Case Study. In *Procedia CIRP*, Volume 47, 2016, pp. 358–36; doi: 10.1016/j.procir.2016.03.072.
- Zanetti, V.; Cavalieri, S.; Pezzotta, G. (2016) Additive Manufacturing and PSS: a Solution Life-Cycle Perspective. In *Proceedings of the 8th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2016*, Elsevier, Vol. 49, Issue 12, 2016, pp. 1573–1578, doi: 10.1016/j.ifacol.2016.07.804.
- Romero, D.; Pezzotta, G.; Molina, A.; Cavalieri, S. (2016) Strategic Planning Framework for SME Service Organisations: Competitive, Value Chain and Operational Models & Toolkit. In *Proceedings of the 22th International ICE-Conference on Engineering, Technology and Innovation.*, At Trondheim, Norway.
- Pesenti Campagnoni, V.; Ierace, S.; Floreani, F.; Cavalieri, S. (2016) A pattern recognition methodology for Fault Detection: a circuit breaker case study. In *10th World Congress on Engineering Asset Management – WCEAM 2015*, 28th – 30th September 2015, Tampere, Finland.
- Zanetti, V., Cavalieri, S., Kalchschmidt, M. and Pinto R. (2015) The Role of Additive Manufacturing in the B2C Value Chain: Challenges, Opportunities and Models. In *Proceedings of APMS 2015*, Tokyo, Japan. Part II, IFIP AICT 460, pp. 137–145.
- Zuccolotto, M., Pereira, L.C., Fasanotti, L., Cavalieri, S., Lee, J. (2015) Designing an Artificial Immune Systems for Intelligent Maintenance Systems. In *IFAC-PapersOnLine*, 15th IFAC Symposium on

Information Control Problems in Manufacturing -INCOM 2015, Ottawa, Canada. Vol.8, N. 3, pp. 1451-1456, Elsevier Ltd.

- Dovere, E., Cavalieri, S., Ierace, S. (2015) An assessment model for the implementation of RFID in tool management. In IFAC-PapersOnLine 15th IFAC Symposium on Information Control Problems in Manufacturing INCOM 2015, Ottawa, Canada. Vol.8, N. 3, pp. 1007-1012, Elsevier Ltd.
- Zuccolotto, M., Fasanotti, L., Cavalieri, S., Pereira, C.E. (2015) A distributed intelligent maintenance approach based on artificial immune systems. In Engineering Asset Management - Systems, Professional Practices and Certification: proceedings of the 8th World Congress on Engineering Asset Management (WCEAM 2013) & the 3rd International Conference on Utility Management & Safety (ICUMAS) - Lecture notes in mechanical engineering. Vol. 2013, pp. 969-981, Springer.
- Sassanelli, C.; Pezzotta, G.; Rossi, M.; Terzi, S.; Cavalieri, S. (2015) Towards a Lean Product Service Systems (PSS) Design: state of the art, opportunities and challenges. In Proceedings of 7th Industrial Product-Service Systems Conference - PSS, Industry transformation for sustainability and business PROCEDIA CIRP (pp.191-196). Elsevier. doi: 10.1016/j.procir.2015.02.123.
- Romero, D., Resta, B., Cavalieri, S. (2014). Green Virtual Enterprise Broker: Enabling Build-to-Order Supply Chains for Sustainable Customer-Driven Small Series Production. In *Advances in Production Management Systems. Innovative and Knowledge-Based Production Management in a Global-Local World, IFIP Advances in Information and Communication Technology*, Vol. 439, 2014, pp 431-441.
- Zuccolotto, M., Fasanotti, L. Cavalieri, S., Pereira, C. E., (2014). Artificial Immune Intelligent Maintenance System – Diagnostic Agents. In: *Preprints of the 19th World Congress The International Federation of Automatic Control*, Cape Town, South Africa. August 24-29, 2014, pp. 7116-7121.
- Zuccolotto, M., da Silva, T. R., Pereira, C. E., Fasanotti, L. Cavalieri, S., Ierace, S. (2014). Device layer agents for an artificial immune intelligent maintenance system. In: *INDIN 2014, 12th IEEE International Conference on Industrial Informatics*, Porto Alegre RS, Brazil, 27-30 July 2014, pp. 554-559.
- Fasanotti, L. Cavalieri, S., Tomasini, M, Floreani F., Ierace, S. (2014). Prognostics algorithms for circuit breaker application: A benchmark analysis. In: *INDIN 2014, 12th IEEE International Conference on Industrial Informatics*, Porto Alegre RS, Brazil, 27-30 July 2014, pp. 463-468.
- Pezzotta, G., Pirola, F., Akasaka, F., Cavalieri, S., Shimomura, Y., Gaiardelli, P. (2013). A Service Engineering Framework to Design and Configure Product-Service Systems. In: *Intelligent Manufacturing Systems, 1th IFAC Workshop on Intelligent Manufacturing Systems, 2013* , Vol. 11, N. 1, pp. 263-268.
- Pezzotta, G., Pinto, R., Pirola, F., Cavalieri, S., (2013). Evaluation and Assessment of Two Simulation Software for Service Engineering. In: *Proceedings of ICSEV2013-1st International Conference on Serviceology*, October, 16-18, Tokyo, Japan.
- Pezzotta, G., Pinto, R., Pirola, F., Cavalieri, S., Akasaka, F., Shimomura, Y. (2013). Engineering Product-Service Solutions: An Application in the Power and Automation Industry. In: *Advances in Production Management Systems. Sustainable Production and Service Supply Chains*. IFIP Advances in Information and Communication Technology, Vol. 415, 2013, pp 218-225, Springer-Verlag Berlin Heidelberg.
- Tariq, Z., Cavalieri, S., Pinto, R. (2013) Determinants of Smart Energy Demand Management: An Exploratory Analysis. In: *Advances in Production Management Systems. Sustainable Production and*

Service Supply Chains. IFIP Advances in Information and Communication Technology, Vol. 415, pp 548-555, Springer-Verlag Berlin Heidelberg.

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- Jaenglom, K., Cavalieri, S., Pinto, R., Ierace, S. (2013). An Overview Of Supply Chain Management Practices For Sustainable Construction. In: *Proceedings of the 20th EUROMA Conference*, June 7th-12th, 2013
- Cavalieri, S., Ierace, S., Pedrali, N., Pinto, R. (2013) A Fourth Party Energy Provider for the Construction Value Chain: Identifying Needs and Establishing Requirements. In: *IFIP Advances in Information and Communication Technology* Vol. 398, 2013, pp 256-264, Springer-Verlag Berlin Heidelberg.
- Regazzoni, D., Pezzotta, G., Persico, S., Cavalieri, S., Rizzi, C. (2013). Integration of TRIZ Problem Solving Tools in a Product-Service Engineering Process. In *The Philosopher's Stone for Sustainability*, pp 399-404, Springer-Verlag Berlin Heidelberg.
- Zuccolotto, M., Fasanotti, L., Cavalieri, S., Pereira, C.E. (2013). A Distributed Intelligent Maintenance Approach based on Artificial Immune Systems. In: *Proceedings of the 8th World Congress on Engineering Asset Management & 3rd International Conference on Utility Management & Safety*, 30 Oct – 1 Nov 2013, Hong Kong.
- Cavalieri, S. Lupo, T., Pinto, R. Pirola, F. (2011). How companies evaluate the service quality of the motor carriers: four-case studies in Italy, In: *Proceedings of the 13th Modern Information Technology in the Innovation Processes of the industrial enterprises (MITIP) conference - 22-24 June 2011*, Trondheim, Norway, pp. 244-253, ISBN: 978-82-519-2816-8.
- Fumagalli, L. Ierace, S., Dovero E., Macchi, M., Cavalieri S., Garetti, M. (2011). Agile diagnostic tool based on electrical signature analysis. In *Proc. of IFAC 2011 - 18th World Congress of the International Federation of Automatic Control*, Milan, August 28th - September 2nd, 2011.
- Legnani, E., Cavalieri, S. (2011). Decision support tools for measuring and controlling After-Sales service performance. In: *Proc. of XIV Summer School Summer School "Francesco Turco" - 2011. "BREAKING DOWN THE BARRIERS BETWEEN RESEARCH AND INDUSTRY*, Abano Terme, 14-15-16 September 2011, ISBN 978-88-906319-0-0
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