

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, 2015;
- Invited Guest Editor of the Special Issue on “Service Transformation in Industrial Companies”, *International Journal of Production Research* (to be published in summer 2017).

In addition, he has been so far:

- editor of 5 books (in Italian);
- author of more than 30 papers on International scientific journals and book chapters;
- author of more than 90 papers on proceedings of International conferences;
- author of more than 30 papers on proceedings of national conferences.

LIST OF PAPERS PUBLISHED ON INTERNATIONAL JOURNALS OR BOOK CHAPTERS

- 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. *International Journal of Production Research*, pp. 1-14, Doi: 10.1080/00207543.2016.1207818.
- 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.

- 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. *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. *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.
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- 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.
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LIST OF PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

- 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*, 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.
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- Legnani E., Cavaliere S., Crespo A.M., González V.D. (2010). System Dynamics modeling for Product-Service Systems. A case study in the agri-machine industry, In: *Proc. of International Conference on Advances in Production Management Systems*, Cernobbio, Como, Italy, 9-13 October, ISBN: 978-88649-30-077

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- Legnani E., Cavalieri S. (2009). Exploring the causal relationships of key performance indicators in after sales service systems, In: *Proc. of APMS 2009, International Conference on Advances in Production Management Systems*, Bordeaux, France, 19-23 September 2009.
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- Ierace S., Floreani F., Fasanotti F., Garetti M., Cavalieri S. (2009). Industrial requirements for the development of a prognostics platform, In: *Proc. Of 4th International Conference on Maintenance and Facility Management (MM)*, Rome (Italy), April 22-24.
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