

# 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 (in Italian);
- author of 27 papers on International scientific journals and book chapters;
- author of more than 80 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

- 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.

- 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. *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. *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.
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- 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.
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- 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

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- 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., Saccani 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.
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- 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.
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- Powell, D.; Romero, D.; Gaiardelli, P.; Cimini, C.; Cavaliere, S (2018) Towards Digital Lean Cyber-Physical Production Systems: Industry 4.0 Technologies as Enablers of Leaner Production. In Proceeding of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2018, Seoul, Korea, August 26-30, 2018. Vol. 536, pp. 353-362. doi: 10.1007/978-3-319-99707-0\_44.
- Rondini, A.; Pezzotta, G.; Cavaliere, S. (2018) Quantitative assessment of service delivery process: application of hybrid simulation modelling. In Proceedings of the 16th IFAC Symposium on Information Control Problems in Manufacturing INCOM 2018, 11-13 June 2018, Bergamo, Italy, Vol. 51, issue 11, pp. 1113-1118, doi: 10.1016/j.ifacol.2018.08.454.
- Cimini, C.; Pinto, R.; Cavaliere, 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.
- Resta, B.; Giudici, V.; Cavaliere, S.; Solvang, W. D.; Dotti, S.; Gaiardelli, P. (2017) Strategic Operations Management in Healthcare: a reference model for Cardiac Rehabilitation. In Proceedings of the Health Care Systems Engineering - ICHCSE 2017, Springer, ISBN 978-3-319-66145-2, Vol. 210, pp. 37-47, DOI:10.1007/978-3-319-66146-9\_4.
- Sala, R.; Zanetti, V.; Pezzotta, G.; Cavaliere, 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.
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- 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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- 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.
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