

NOME E COGNOME Alberto Regattieri

Indirizzo email alberto.regattieri@unibo.it

Job title(s) Full Professor – Università di Bologna
Head of Engineering Management degree at School of Engineering

OTHER ACADEMIC POSITIONS

Teaching Operations and Industrial logistics at Bologna University
Operations and Supply chain at several Masters (MBA, EMBA)

Expertise Supply Chain design and management
Operations and Logistics
Maintenance of production systems

Research Flexible automation in production systems
Traceability along the Supply chain and indoor positioning systems
Condition monitoring of complex industrial assets

EDUCATION Degree in Mechanical Engineering in 1999 at Bologna University, Faculty of Engineering (100/100 cum laude).
After Degree, Operations manager at an international Company (logistics and plant maintenance management assignment).
PhD in “Operations in production systems” (1997-2000) at Parma University - Department of Industrial Engineering.

LANGUAGES Italian (mother tongue)
English (B2)
French (B1)

PRINCIPAL PUBLICATIONS

FERRARI E., PARESCHI A., PERSONA A., REGATTIERI A. (2002). TPM: situation and procedure for a soft introduction in italian factories. TQM MAGAZINE. vol. 14(6), pp. 350-358 ISSN: 0954-478X. Emerald Group Publishing Ltd – Bingley (UK).

FERRARI E., PARESCHI A., PERSONA A., REGATTIERI A. (2003). Plant layout computerized design: Logistic and Re-layout Program (LRP). INTERNATIONAL JOURNAL ADVANCED MANUFACTURING TECHNOLOGY. vol. 21 (12), pp. 917-922 ISSN: 0268-3768. Springer-Verlag – London (UK).

FERRARI E., MANZINI R., PARESCHI A., PERSONA A., REGATTIERI A. (2003). The car pooling problem: heuristic algorithms based on saving functions. JOURNAL OF ADVANCED TRANSPORTATION. vol. 37 (3), pp. 243-272 ISSN: 0197-6729. Transportation Inst. Calgary (CAN).
IMPACT FACTOR '03= 0.273

FERRARI E., GAMBERI M., MANZINI R., PARESCHI A., PERSONA A., REGATTIERI A. (2003). Redesign of the Mozzarella cheese production process through development of a micro-forming and stretching system. JOURNAL OF FOOD ENGINEERING. vol. 59, pp. 13-23 ISSN: 0260-8774. Elsevier Science Ltd – Amsterdam (NL).

PERSONA A., REGATTIERI A., ROMANO P. (2004). An Integrated reference model for production planning and control in SMEs. INTEGRATED MANUFACTURING SYSTEMS. vol. 15 N.7, pp. 626 - 640 ISSN: 0957-6061. Emerald Group Publishing Ltd – Bingley (UK). Premiato dal Literati Club Awards come Excellence outstanding paper per l'anno 2005.

MANZINI R., GAMBERI M., REGATTIERI A., PERSONA A. (2004). Framework for designing a flexible cellular assembly system. INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH. vol. 42, n.17, pp. 3505 – 3528. ISSN: 0020-7543. Taylor and Francis – London (UK).

- REGATTIERI A., GAMBERI M., GAMBERINI R., MANZINI R. (2005). Managing lumpy demand for aircraft spare parts. *JOURNAL OF AIR TRANSPORT MANAGEMENT*. vol. 11, pp. 426 - 431 ISSN: 0969-6997. Elsevier Science Ltd – Amsterdam (NL).
- MANZINI R., GAMBERI M., REGATTIERI A. (2005). Design and control of a flexible order picking system (FOPS): a new integrated approach to the implementation of an expert system. *JOURNAL OF MANUFACTURING TECHNOLOGY MANAGEMENT* (in origine Integrated Manufacturing Systems). vol. 16(1), pp. 18 - 35 ISSN: 1741-038x. Emerald Group Publishing Ltd – Bingley (UK).
- MANZINI R., FERRARI E., GAMBERI M., PERSONA A., REGATTIERI A. (2005). Simulation performance in the Optimisation of the Supply Chain. *JOURNAL OF MANUFACTURING TECHNOLOGY MANAGEMENT* (in origine Integrated Manufacturing Systems). vol. 16, n.2, pp. 127 - 144 ISSN: 1741-038x. Emerald Group Publishing Ltd – Bingley (UK).
- MANZINI R., FERRARI E., GAMBERI M., PERSONA A., REGATTIERI A. (2005). Simulation Performance in the Optimisation of the Supply Chain. *THE JOURNAL OF ENTERPRISE RESOURCE MANAGEMENT* (in origine Production and inventory management journal). vol. 21 ISSN: 0897-8336. APICS - Sidney (AUS). Republishing richiesto dall'editore di [R9].
- REGATTIERI A., GAMBERI M., MANZINI R., PERSONA A. (2006). Monte carlo approach for performance evaluation in automatic storage and retrieval systems. *THE JOURNAL OF ENTERPRISE RESOURCE MANAGEMENT* (in origine Production and inventory management journal). vol. 26, pp. 1 - 19 ISSN: 0897-8336. II Quarter Edition. APICS - Sidney (AUS).
- MANZINI R., PERSONA A., REGATTIERI A. (2006). Framework for designing and controlling a multicellular flexible manufacturing system. *INTERNATIONAL JOURNAL OF SERVICES AND OPERATIONS MANAGEMENT*. vol. 2, n.1, pp. 1 - 21 ISSN: 1746-0972. Inderscience Enterprise Ltd – Geneve – (SUI).
- MANZINI R., GAMBERI M., REGATTIERI A. (2006). Applying mixed integer programming to the design of a distribution logistic network. *INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING-THEORY APPLICATIONS AND PRACTICE*. vol. 13(2), pp. 207 - 218 ISSN: 1072-4761. University of Cincinnati – Cincinnati (USA).
- MANZINI R., GAMBERI M., REGATTIERI A. (2006). Design and control of an AS/RS. *INTERNATIONAL JOURNAL ADVANCED MANUFACTURING TECHNOLOGY*. vol. 28(7-8), pp. 766 - 774 ISSN: 0268-3768. Springer-Verlag – London (UK).
- MANZINI R., GAMBERI M., PERSONA A., REGATTIERI A. (2007). Design of a class based storage picker to product Order Picking System. *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY* vol. 32(7-8), pp. 811-821 ISSN: 0268-3768. Springer-Verlag – London (UK).
- REGATTIERI A., GAMBERI M., MANZINI R. (2007). Traceability of food products: general framework and experimental evidence. *JOURNAL OF FOOD ENGINEERING*. vol. 81, pp. 347 - 356 ISSN: 0260-8774. Elsevier Science Ltd – Oxford (UK).
- PERSONA A., REGATTIERI A., PHAM H., BATTINI D. (2007). Remote control and maintenance outsourcing networks and its applications in supply chain management. *JOURNAL OF OPERATIONS MANAGEMENT*. vol. 25 n. 6, pp. 1275 - 1291 ISSN: 0272-6963. Elsevier Science Ltd – Amsterdam (NL).
- MANZINI R., GAMBERI M., GEBENNINI E., REGATTIERI A. (2008). An integrated approach to the design and management of a supply chain. *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY* vol. 37(5-6), pp. 625 – 640 ISSN: 0268-3768. Springer-Verlag – London (UK).
- GAMBERI M., GAMBERINI R., MANZINI R., REGATTIERI A. (2008). An analytical model to evaluating the implementation of a batch-production-oriented line. *INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS*. vol. 111, pp. 729 - 740 ISSN: 0925-5273. Elsevier Science Ltd – Amsterdam (NL).
- GAMBERI M., MANZINI R., REGATTIERI A. (2009). A new approach to the automatic analysis and control of material handling systems: Integrated Layout Flow Analysis (ILFA). *INTERNATIONAL JOURNAL ADVANCED MANUFACTURING TECHNOLOGY*. 41 (1), 156-167
- REGATTIERI A., BELLOMI G.,(2008). Innovative lay-up system in plywood manufacturing process. *EUROPEAN JOURNAL OF WOOD AND WOOD INDUSTRIES (Holz Als Roh- Und Werkstoff)* Vol. 67, pp. 55-62 DOI:10.1007/s00107-008-0282-0 ISSN 0018-3768 (Print) Springer – Verlag – Berlin / Heidelberg.
- GAMBERINI R., REGATTIERI A., (2008). Double pressing for porcelain stoneware tiles: an exploratory analysis. *INDUSTRIAL MANAGEMENT & DATA SYSTEMS*. Vol. 108, n. 8, pp. 1081-1100 ISSN: 0263-5577. Emerald Group Publishing Ltd – Bingley (UK).
- BATTINI D., PERSONA A., REGATTIERI A.,(2009). Buffer size design linked to reliability performance: A simulative study. *COMPUTERS & INDUSTRIAL ENGINEERING*. Vol. 56, n.4, pp. 1633-1641 - ISSN: 0360-8352. Elsevier Science Ltd – Amsterdam (NL).
- BINDI F., MANZINI R., PARESCHI A., REGATTIERI A.(2009), Similarity-based storage allocation rules in an order picking system: an application to the food service industry *INTERNATIONAL JOURNAL OF LOGISTICS: RESEARCH & APPLICATIONS*. Vol. 12, n.4, pp. 233-247. ISSN: 1367-5567. Taylor and]
- GAMBERI M., MANZINI R., REGATTIERI A.(2009), Simulink simulator for building hydronic heating systems implementing the Newton-Raphson algorithm. *ENERGY & BUILDINGS*. Vol. 41, pp. 848-855., ISSN: 0378-7788. Elsevier Science Ltd – Amsterdam (NL). Emerald Group Publishing Ltd – Bingley (UK).
- GAMBERINI R., GEBENNINI E., GRASSI A., REGATTIERI A.(2009), A multiple single-pass heuristic algorithm solving the stochastic assembly line rebalancing problem. *INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH*. Vol. 47, n. 8, pp. 2141-2164. ISSN: 0020-7543. Taylor and Francis – London (UK).

- REGATTIERI A., GAMBERINI R., LOLLI F., MANZINI R., (2010), Designing production and service systems using queuing theory: principles and application to an airport passenger security screening system. *INTERNATIONAL JOURNAL OF SERVICES AND OPERATIONS MANAGEMENT*. Vol. 6, No.2 pp. 206 – 225. ISSN: 1744-2370. Inderscience Enterprise Ltd – Geneve – (SUI).
- ALLESINA S., AZZI A., BATTINI D., REGATTIERI A. (2010), Performance Measurement In Supply Chain: New Network Analysis And Entropic Indexes. *INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH*. Vol 48, n. 8, pp. 2297-2321. ISSN: 0020-7543. Taylor and Francis – London (UK).
- FACCIO M., PERSONA A., PHAM H., REGATTIERI A., (2010), Modelling the spare parts stock levels and its applications in industrial systems. *INTERNATIONAL JOURNAL OF OPERATIONAL RESEARCH*. Vol. 9, No. 1, pp. 39-64. ISSN: 1745-7645. Inderscience Enterprises Ltd.
- REGATTIERI A., MANZINI R., BATTINI D. (2010), Estimating reliability characteristics in presence of censored data: a case study in a light commercial vehicle manufacturing system, *RELIABILITY ENGINEERING AND SYSTEM SAFETY*. Vol. 95, No. 10, pp. 1093-1102. ISSN: 0951-8320. Elsevier Science Ltd – Amsterdam (NL).
- BATTINI D., FACCIO M., PERSONA A., REGATTIERI A. (2013). Buffer Design For Availability: a new simulative study in case of infant and random failures. *INTERNATIONAL JOURNAL OF SERVICES AND OPERATIONS MANAGEMENT*. Vol.14, No.2 pp. 157-174 . ISSN: 1744-2370. Inderscience Enterprise Ltd – Geneve – (SUI).
- BORTOLINI, M. , GAMBERI, M. , GRAZIANI, A. , MORA, C. , REGATTIERI, A (2013) Multi-parameter analysis for the technical and economic assessment of photovoltaic systems in the main European Union countries *ENERGY CONVERSION AND MANAGEMENT*. Volume 74, 2013, Pages 117-128
ISSN: 01968904
- FACCIO, M. , GAMBERI, M. , PERSONA, A. , REGATTIERI, A. , SGARBOSSA, F. (2013) Design and simulation of assembly line feeding systems in the automotive sector using supermarket, kanbans and tow trains: a general framework . *JOURNAL OF MANAGEMENT CONTROL* 24:187–208
- ALBERTO REGATTIERI, GIULIA SANTARELLI, MAURO GAMBERI, RITA GAMBERINI (2014) The use of RFID technology in packaging systems. An experimental research on traceability *Packaging Technology & Science (PTS)*, 27: 591–608.
DOI: 10.1002/pts.2052
ISSN: 1099-1522
- REGATTIERI A, SANTARELLI G., MANZINI R., PARESCHI A. (2013) The impact of dwell point policy in an Automated Storage/Retrieval System *International Journal of Production Research*
Volume 51, Issue 14, 2013, pages 4336-4348
DOI: 10.1080/00207543.2013.776188
ISSN : 0020-7543
- R. GAMBERINI , F. LOLLI, A. REGATTIERI, B. RIMINI (2014) Dynamic re-order policies for irregular and sporadic demand profiles *Procedia Engineering* 69 (2014) pp. 1420 – 1429
doi: 10.1016/j.proeng.2014.03.137
ISSN: 1877-7058
- REGATTIERI ALBERTO, SANTARELLI GIULIA, GAMBERI MAURO, MORA CRISTINA (2014) A new paradigm for packaging design in web based commerce *International Journal of Engineering Business Management*
2014, 6:14
doi: 10.5772/58825
ISSN: 1847-9790
- BORTOLINI MARCO, CASCINI ALESSANDRO, GAMBERI MAURO, MORA CRISTINA, REGATTIERI ALBERTO (2014) Sustainable design of an innovative multi-functional haymaking agricultural machinery *Journal of Cleaner Production*
Volume 82, 1 2014, Pages 23-36
doi: 10.1016/j.jclepro.2014.06.054
ISSN: 09596526
- MORA CRISTINA., CASCINI ALESSANDRO., GAMBERI M., REGATTIERI A., BORTOLINI MARCO (2014) A planning model for the optimisation of the end-of-life vehicles recovery network *International Journal of Logistics Systems and Management*
Volume 18, Issue 4, 2014, Pages 449-472
DOI: 10.1504/IJLSM.2014.063980
- MARCO BORTOLINI EMILIO FERRARI MAURO GAMBERI RICCARDO MANZINI ALBERTO REGATTIERI , (2015), New Kanban model for tow-train feeding system design, *Assembly Automation*, Vol. 35 Iss 1 pp. 128 - 136
Automation
35/1 (2015) 128–136
ISSN 0144-5154
DOI 10.1108/AA-05-2014-039
- GIULIA SANTARELLI, HELLA ABIDI, MATTHIAS KLUMPP, ALBERTO REGATTIERI. (2015), Humanitarian supply chains and performance measurement schemes in practice, *International Journal of Productivity and Performance Management*, Vol. 64 Iss 6 pp. 784 - 810

DOI: DOI 10.1108/IJPPM-11-2013-0185

ID scopus: 84936933891

ALBERTO REGATTIERI, ALESSANDRO GIAZZI, MAURO GAMBERI, RITA GAMBERINI (2015)

An innovative method to optimize the maintenance policies in an aircraft: General framework and case study
Journal of Air Transport Management ISSN:0969-6997 vol. 44-45, pp.8-20

ID scopus: 2-s2.0-84922432475

PII: S0969-6997(15)00007-1

EMANUEL FEDERICO ALSINA, GIACOMO CABRI, ALBERTO REGATTIERI (2016)

A neural network approach to failure and reliability prediction: modeling and experimental evidence.

Quality and Reliability Engineering International

ISSN: 07488017 Volume 32, Issue 2, pages 567–579, March 2016 (paper) – online 13.2.15

ID scopus: 2-s2.0-84923260915

DOI: 10.1002/qre.1773

FRANCESCO LOLLI, ALFREDO PERGREFFI, RITA GAMBERINI, BIANCA RIMINI, ALBERTO REGATTIERI (2015)

A Bi-objective Heuristic for Supporting Fire Stations to Respond Quickly and Efficiently in Case of Micro Calamities

International Journal of Operations and Quantitative Management (IJOQM)

Volume 21, Issue 1, 2015, Pages 21-36

ID scopus: 2-s2.0-84926333699

ISSN 1082-1910

BORTOLINI, M., GAMBERI, M., GAMBERINI, R., GRAZIANI, A., LOLLI, F., REGATTIERI (2015)

A. Retrofitting of R404a commercial refrigeration systems using R410a and R407f refrigerants

International Journal of Refrigeration

Volume 55, 1 June 2015, Article number 2989, Pages 142-152

doi: 10.1016/j.ijrefrig.2015.02.015

ISSN:0140-7007

MARCO BORTOLINI, RICCARDO ACCORSI, MAURO GAMBERI, RICCARDO MANZINI, ALBERTO REGATTIERI (2015)

Optimal design of AS/RS storage systems with 3-class-based allocation strategy under single and dual command operations

International Journal, Advanced Manufacturing Technology

vol. 79 - pp. 1747–1759

DOI 10.1007/s00170-015-6872-1

ISSN: 02683768

REGATTIERI, FRANCESCO PIANA, MAURO GAMBERI, MARCO BORTOLINI, EMILIO FERRARI

Innovative portable solar cooker using the packaging waste of humanitarian supplies Alberto Renewable and Sustainable Energy

Reviews 57 (2016) 319–326

doi:10.1016/j.rser.2015.12.199

ISSN: 1364-0321

ALSINA E.F., BORTOLINI M., GAMBERI M., REGATTIERI A,

Artificial neural network optimisation for monthly average daily global solar radiation prediction

Energy Conversion and Management

120 (2016), 320–329

DOI: 10.1016/j.enconman.2016.04.101

ISSN: 01968904

MANZINI, R., ACCORSI R., FERRARI E., GAMBERI M., GIOVANNINI V., PHAM H., PERSONA A., REGATTIERI A.,

Weibull vs. normal distribution of demand to determine the safety stock level when using the continuous-review (S, s) model without backlogs

International Journal Of Logistics Systems And Management

Vol:24 (3) - 298-332

DOI: 10.1504/IJLSM.2016.076889

ISSN: 17427967