Francesco Facchini



CURRENT ACADEMIC POSITIONS AND ACTIVITIES

Associate Professor for the scientific-disciplinary sector IIND-05/A - "Industrial Mechanical Plants" (former ING-IND/17), at the Department of Mechanics, Mathematics and Management of the Polytechnic University of Bari.

Lecturer in Operations Management (6 ECTS credits) for the Master's Degree Course in Management Engineering, Polytechnic University of Bari.

Lecturer in Logistics (6 ECTS credits) for the Degree Course in Management Engineering, inter-university course Polytechnic University of Bari, University of Foggia – Foggia Campus.

Editor-in-Chief of the journal "Maintenance & Asset Management" – Official Journal of the Italian Maintenance Association (AIMAN).

Head of the Prevention and Protection Service for the Department of Mechanics, Mathematics and Management of the Polytechnic University of Bari.

Member of the Board of Lecturers of the accredited PhD Programme in Management Engineering of the Polytechnic University of Bari.

Delegate of the Department Director for the Coordination of the Prevention and Protection Service.

EDUCATION

2025 **National Scientific Qualification as Full Professor** (ASN 2023, fifth quarter).

2020 **National Scientific Qualification as Associate Professor** (ASN 2018, fifth quarter).

2014 **PhD** in "Organizational Development, Labour and Innovation of Production Processes", XXVI Cycle. Title of the discussed thesis: "Safety and healthiness of workplaces: methodologies and tools for the detection and monitoring of hazardous substances for workers' health".

2010 **Master's Degree in Management Engineering.** Polytechnic University of Bari. Experimental thesis in Environmental Management of Production Systems entitled "Life Cycle Assessment: Differential analysis between Polycrystalline Silicon and Cadmium Telluride photovoltaic technologies", carried out during an internship period at the Department of Chemistry of the University of Bari.

2008 **Degree in Mechanical Engineering. Polytechnic University of Bari.** Experimental thesis in Industrial Quality Management entitled "The Quality Management System for a Chemical Analysis Laboratory".

2015 **Common European Framework of Reference for languages Livello C2-Upper Advanced** (nr. MFV4CMBK) rilasciato da University of Cambridge.

2011 **Qualification to practice as Industrial Engineer** (section A).

INSTITUTIONAL ACTIVITIES AND APPOINTMENTS

The institutional activity carried out by Francesco Facchini from 2014 to date consists almost entirely of service activities for the Polytechnic University of Bari, to which he belongs. He is currently a member of

the Board of the PhD Programme in Management Engineering, after having held the same role in the Board of the PhD Programme in Mechanical and Management Engineering.

Since 2014, he has been Head of the Prevention and Protection Service of the Department of Mechanics, Mathematics and Management. From 2018 to 2024, he was Delegate of the Department Director for the "Maintenance of the Department Structure and Plants" and, currently, he is the Director's Delegate for "Health and Safety in workplaces".

A brief description of the main institutional activities carried out by Francesco Facchini is reported below.

2024-present	Delegate of the Department Director for the Coordination of the Prevention and Protection Service (D.D. 341/2024 of 01/10/24).
2023-present	Member of the Board of Lecturers of the accredited PhD Programme in Management Engineering of the Polytechnic University of Bari.
2014- present	Head of the Prevention and Protection Service of the Department of Mechanics, Mathematics and Management (D.D. 49 of 01/04/2014).
2021-present	Member of the "Italian Association of Industrial Plant Professors" (AIDI).
2021-2025	Elected to the Executive Board of the "Italian Association of Industrial Plant Professors" (AIDI).
2021-2024	Elected Representative of Researchers within the Board of the Department of Mechanics, Mathematics and Management of the Polytechnic University of Bari (D.R. 821 of 14/10/21).
2018-2024	Delegate of the Department Director for the "Maintenance of the Department Structure and Plants" (D.D. 2 of 22/01/20 and D.D. 108/2021 of 01/10/2021).
2020-2022	Member of the Board of Lecturers of the accredited PhD Programme in Mechanical and Management Engineering of the Polytechnic University of Bari.
2026	Commissioner appointed by the Polytechnic University of Bari in the Examination Committee for qualification to practice the engineering profession, I and II session 2020 (D.R. 660 del 17/07/2026).
2026	Member of the evaluation committee for the award of one postdoctoral research position within the project "Adaptive System for Digital Education and Training (SAFETi)" (D.R. 594 of 24/05/2022).
2024	Chair of the evaluation committee for the awarding of no. 1 "professionalizing" research grant entitled "Development of models for the evaluation of cognitive workload and performance of operators employed in maintenance activities" (D.R. 70 of 18/01/2024).
2023	Member of the evaluation committee for admission to the DRIG Course - XXXIX cycle (D.R. 867 of 17/07/2023).
2022	Member of the evaluation committee for the awarding of no. 1 "professionalizing" research grant entitled "Development of models for the evaluation of movement difficulty and performance of operators in carrying out motor tasks in Industry 4.0 production contexts" (D.R. 594 of 24/05/2022).
2021	Member of the evaluation committee for admission to the DRIMEG Course - XXXVII cycle for the awarding of scholarships on the "GREEN" thematic macro-area (D.R. 905 of 26/10/2021). Member of the evaluation committee for admission to the DRIMEG Course - XXXVII cycle for the awarding of scholarships on the "INNOVATION" thematic macro-area (D.R. 906 of 26/10/2021). External member of the examination board for the final PhD examination in "Production Engineering" at Universidade Nove de Julho – UNINOVE São Paulo – Brazil.

2020 Commissioner appointed by the Polytechnic University of Bari in the Examination Committee for qualification to practice the engineering profession, I and II session 2020 (D.R. 333 of 02/07/2020).

TEACHING ACTIVITIES

The teaching activities of Francesco Facchini have all been developed, starting from 2012, within the scientific-disciplinary sector IIND-05/A (former ING-IND/17), at the Department of Mechanics, Mathematics and Management of the Polytechnic University of Bari. The teaching activities began with the formal assignment of supplementary teaching duties (called 'teaching support cycles') within the courses of Industrial Production Management and Mechanical Plants II, respectively belonging to the Master's Degree Courses in Management Engineering and Mechanical Engineering of the Polytechnic University of Bari.
From 2015 to the present, he has been lecturer of the Integrated Course of Logistics within the inter-university Degree Course in Logistics Systems Engineering for Agri-food of the Polytechnic University of Bari and the University of Foggia. From 2021 to the present, he has been lecturer of the Course of Industrial Production Management within the Master's Degree Course in Management Engineering provided by the Polytechnic University of Bari.
In 2022, he was lecturer of the course "Human-based Smart Manufacturing Systems" for the PhD School of the Polytechnic University of Bari.
The courses for which he has been lecturer and the related time periods are reported below.

From a.y. 2021/2022 **Polytechnic University of Bari**
Master's Degree Course in Management Engineering
- Operations Management (6 ECTS)

From a.y. 2022/2023 **Polytechnic University of Bari – University of Foggia**
Degree Course in Management Engineering
- Logistics (6 ECTS)

From a.y. 2015/2016 to a.y. 2022/2023 **Polytechnic University of Bari – University of Foggia**
Degree Course in Logistics Systems Engineering for Agri-food
- Logistics (6 ECTS)

a.y. 2022/2023 **Polytechnic University of Bari**
Ph.D. School
- 'Human-based Smart Manufacturing Systems' (2 ECTS)

a.y. 2020/2021 **University of Bari "A. Moro"**
Master's Degree Course in Maritime-Port Strategic Sciences
- Logistics and Maintenance in the Port Industry (6 ECTS).

a.y. 2019/2020 **Polytechnic University of Bari – University of Foggia**
Degree Course in Logistics Systems Engineering for Agri-food
- Lean Production (6 ECTS).

a.y. 2017/2018 **Polytechnic University of Bari – University of Foggia**
Degree Course in Logistics Systems Engineering for Agri-food
- Safety of Industrial Plants (3 ECTS)

Since 2012, as Supervisor and Co-supervisor, he has supervised the development of more than 170 Master's Degree theses in Management Engineering, 25 Degree theses in Logistics Systems Engineering for Agri-food, 5 Degree theses in Management Engineering and 1 Master's Degree thesis in Maritime-Port Strategic Sciences.

Within the topics of the scientific-disciplinary sector IIND-05/A (former ING-IND/17), Francesco Facchini has also carried out professional training activities within professionalizing courses organized by training institutes and local schools.

PARTICIPATION IN PHD PROGRAMMES AND TUTORSHIP

2023-present Member of the Board of Lecturers of the accredited PhD Programme in Management Engineering provided by the Polytechnic University of Bari; currently tutor of the PhD candidate Angelica Cotruvo (XL cycle), Vito Grimaldi (XLI), and Martina Guerra (XLI).

2020-2022 Member of the Board of Lecturers of the accredited PhD Programme in Mechanical and Management Engineering provided by the Polytechnic University of Bari; he was tutor of Dr. Micaela Vitti (XXXVI cycle) and Dr. Mariantonietta Ferrante (XXXVIII cycle).

2024 External reviewer of three PhD theses within the PhD School in Systems Engineering, Energy, Computer Science and Telecommunications (University of Catania), PhD School in Mechanics and Advanced Engineering Sciences (University of Bologna) and PhD School in Engineering Sciences (Marche Polytechnic University).

2021 External member of the evaluation committee for the final examination of the PhD Course at Universidade Nove de Julho (BR).

RESPONSIBILITY FOR RESEARCH PROJECTS FUNDED THROUGH COMPETITIVE CALLS

2026-present Scientific Coordinator for the Polytechnic University of Bari of the ERASMUS-EDU-2026-EMJM-DESIGN "European Master in Resilient & Intelligent Logistics (EM-RESILOG)"

2026-present Scientific Coordinator for the Polytechnic University of Bari of the BRiC Call – 2025 edition "Adaptive System for Education and Digital Training (SAFETi)".

2026-present Scientific Coordinator of the University Project "SAFE-POLIBA" - (Safety Awareness and Formation E-learning for trainees of the Polytechnic University of Bari).

2023-2026 Principal Investigator of the PRIN 2022 "DEcision Support system for the Diagnosis and Evaluation of the Maintenance OperatioNs Activities (DESDEMONA)" – D.D. no. 1409 of 14/09/2022.

2021-present Coordinator of the Research Project "Model for Integrated Waste Management". Scientific research project related to the University Research Fund (FRA 2021) of the Polytechnic University of Bari, ranked 7th in the comparative evaluation of proposals (out of 137 funded projects) - NextGenerationEU (PNRR).

2019-present Coordinator of the Research Project "Model for the Logistics Management of Agri-food Waste". Scientific research project related to the University Research Fund (FRA 2019) of the Polytechnic University of Bari, ranked 2nd in the comparative evaluation of proposals (out of 27 funded projects) – Prot. 0018741 of 06/08/2020.

PARTICIPATION IN RESEARCH PROJECTS FUNDED THROUGH COMPETITIVE CALLS

2026-present European Project "Remanufacturing-X – Accelerating Europe's Transition to Digital Circular Manufacturing" – Call: HORIZON-CL4-2025-01, Number: 101295053, CUP: D93C26000420006.

2025-present European Project "Metallic Elements Dissipation Avoided by Life cycle design for Steel (MEDALS)" - HORIZON-CL4-2023-TWIN-TRANSITION-01, Project number: 101138516 - CUP: D93C24001180006.

2024-present European Project "Substitution of fossil Combustion in Industrial high-Temperature processes by ADvanced ELectrical heating technologies (CITADEL)" - HORIZON-CL4-2023-TWIN-TRANSITION-01, Project number: 101138794.

2023-2026 PRIN 2022 "Prescriptive digital twins for cognitive-enriched competency development of workforce of the future in smart factories (RESILIENCE)".

2019-2023 European Project "Industrial Engineering and Management of European Higher Education (IE3)" - Erasmus+ Program - Knowledge Alliance EAC/A03/2018 (Project number – 612402-EPP-1-2019-1-IT-EPPKA2-KA). The project aims to evaluate the gap between the knowledge required in the industrial field for the implementation of the "Industry 4.0" paradigm and the educational offer of European universities at Master's Degree level in the area of Industrial Engineering and Management (IE&M). Within this framework, Francesco Facchini has been covering the role of "Dissemination Manager" for POLIBA as well as Local Coordinator of WP2 "Training need analysis and definition of the BoK on IE&M". The first results of this WP are reported in publication.

2019-2023 PRIN "SO4SIMS: Smart Operators 4.0 based on Simulation for Industry and Manufacturing Systems".

2016-2019 Project "Development of a new system capable of minimizing production, improving quality and promoting the reuse of sludge in urban wastewater treatment and purification processes". OPENLABS call, funded by the Puglia Region.

2018-2021 Project "e-CODOM: Eco-COmpattatore DOMestico Intelligente (project code XBNO396-1)". POR Puglia FESR-FSE 2014-2020 - INNOLABS CALL (Managerial Decree no. 144/13 of 08/02/2017 published on BURP no. 27 of 02/03/2017).

2015-2018 European Project "Leanstory: improvement of steel cleanness by reducing refractory contamination in secondary steelmaking". Call Research and Innovation - Research Fund for Coal and Steel.

2012-2015 Project "RES NOVAE". PON Research and Competitiveness 2007-2013, funded through the measure "Smart cities and Communities and Social innovation" - AXIS II.

PARTICIPATION IN RESEARCH PROJECTS AND TECHNOLOGY TRANSFER

2026 Third-Party Research Project concerning the study of "Digital Re-engineering of Business Processes and Internal Logistics," entered into between the Department of Mechanics, Mathematics and Management of the Polytechnic University of Bari and Master Italy S.r.l.

2023 Third-party Research Project concerning the study of "Theoretical models and tools for the evaluation of the environmental footprint, including all impacts, of mechanical components in the automotive sector during the transition from the design/prototyping phase to the start-up phase of the production life cycle" stipulated between the Department of Mechanics, Mathematics and Management of the Polytechnic University of Bari and Martur Italy srl.

2022 Third-party Research Project "Integrated single logistics system for pharmaceuticals and medical devices of the Regional Health Service of the Campania Region" stipulated between the Department of Mechanics, Mathematics and Management of the Polytechnic University of Bari and So.Re.Sa. SpA.

2018 Third-party Research Project "Feasibility study of a traceability system for plant components used by AQP in the maintenance of water and sewer networks" stipulated between the Department of Mechanics, Mathematics and Management of the Polytechnic University of Bari and AQP SpA.

2017 Third-party Research Project "Optimization and rationalization of logistics flows in the Regional Health System through the implementation of centralized warehouses for the distribution of pharmaceuticals, medical devices and other categories of healthcare and non-healthcare products" stipulated between the Department of Mechanics, Mathematics and Management of the Polytechnic University of Bari and the Regional Strategic Agency for Health and Social Care.

PARTICIPATION IN THE ACTIVITIES OF NATIONAL AND INTERNATIONAL RESEARCH GROUPS

- Coordinator of the collaboration with the research group of Prof. João Reis of **Universidade Lusofóna** for studies related to the digitalization of operations management processes in small and medium-sized enterprises.
- Coordinator of the collaboration with the research group of Prof. Fabiano Armellini of **Polytechnique Montréal** and Dr. Carla Pereira of the **Open University** for studies related to the evaluation of organizational resilience in modern production systems.
- Coordinator of the collaboration with the research group of Prof. Milton Vieira Junior of **Mackenzie Presbyterian University**, São Paulo, for the development of analytical models for the evaluation and optimization of the economic and environmental performance of industrial production systems, with particular reference to the automotive sector.
- Coordinator of the collaboration with the research group of Prof. Dr. Geraldo Cardoso de Oliveira Neto and Prof. Luiz Fernando Rodrigues Pinto of **Universidade Nove de Julho**, São Paulo, for the development of analytical models for the evaluation and minimization of the environmental impact due to production and material handling activities in various industrial sectors
- Collaboration with the research group of Prof. Wagner Lucato of **Universidade Nove de Julho**, São Paulo, for the improvement of the performance and reliability of production systems through the implementation of the paradigms characterizing the fourth industrial revolution.
- Collaboration with the research group of Prof. Joanna Oleśków-Szłapka of **Poznan University of Technology** for studies related to sustainable logistics in modern production systems; the study particularly concerned established companies operating in the automotive sector.
- Coordinator of the collaboration with the research group of the Occupational Medicine section of the **University of Bari** coordinated by Prof. Luigi Vimercati on workplace ergonomics topics.
- Coordinator of the collaboration with the agricultural economics and policy research group of Prof. Contò of the Department of Economics of the **University of Foggia** on research topics related to the use of experimental logistics models for product management within the agri-food supply chain.

ORGANIZATION OR PARTICIPATION AS SPEAKER IN SCIENTIFIC CONFERENCES IN ITALY OR ABROAD

The following table reports all the conferences in which Francesco Facchini has participated, starting from 2012, in the role of conference chair, member of the scientific committee (Scientific Committee), keynote speaker, moderator (chairman) and speaker (presenting author). For each conference, the name, date and location, scientific contribution, role carried out and relevance (national or international) are reported.

Conference	Place and date	Scientific contribution	Role	Relevance
2027 – 33rd International Joint Conference on Industrial	Rio de Janeiro (BR), June 14th-16th, 2027		Organizing Committee	International

Engineering and Operations (IJCIEOM 2027)				
2026 - IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC2026)	Bellevue (USA), October 4th-7th, 2026		Associate Editor	International
2026 – 8th International Conference on Industry of the Future and Smart Manufacturing (ISM 2026)	Padova, 10th – 14th November, 2026		Scientific Committee	International
2026 - 32th International Joint Conference on Industrial Engineering and Operations (IJCIEOM 2026)	Aveiro, 22th – 24th June, 2026		Organizing Committee Scientific Committee Track Chair	International
2026 – Scuola di Dottorato Scuola Superiore dell' Università di Catania	Catania, 9th – 13th February, 2026	Human-Centred Industrial Engineering for Industry 5.0	Keynote speaker	International
2025 – 7th International Conference on Industry of the Future and Smart Manufacturing (ISM 2025)	Malta, 12th – 14th November, 2025		Scientific committee Track Chair	International
2025 – XXX AIDI Summer School "Francesco Turco"	Lecce (IT), 10th – 12th September, 2025		Track Chair	International
20205- 11th International Conference on Applied Human Factors and Ergonomics (AHFE 2025)	Orlando (USA), 26th – 30th July, 2025	Facchini F, Chiacchio F *"Development of an Analytical model to assess the human error probability in cognitive-oriented tasks"*	Track Chair Presenting author	International
2025 - 11th IFAC Conference on Manufacturing Modelling, Management and Control (MIM2025)	Trondheim (NO), 30th June – 3rd July, 2025	Cotruvo A, Vitti M, Grimaldi V, Facchini F *"A preliminary investigation on task-feature combinations for assigning maintenance tasks in Industry 5.0"*	Track Chair Presenting author	International
2025 - 31th International Joint Conference on Industrial Engineering and Operations (IJCIEOM 2025)	Bari (IT), June 23th – 25th, 2025	Cotruvo A, Grimaldi V, Facchini F, Manghisi V, Mossa G *"An Analytical Model to Assess the Task Error Probability in Cognitive-Oriented Tasks"*	Conference Chair	International

2024 – 6th International Conference on Industry 4.0 and Smart Manufacturing (ISM 2024)	Prague (CZ), November 20th – 22nd, 2024	Vitti M, Coletta R, Reis J, Pinto FS, Facchini F *"Enhancing MRP Adoption in SMEs: A Python-Based Algorithmic Approach"* Oliveri L, Chiacchio F, Lo Iacono N, Vitti M, Facchini F *"Enhancing Maintenance Operations in Industry 5.0: A Conceptual User Interface Design for Task Assignment"*	Scientific Committee	International
2024 – 30th International Joint Conference on Industrial Engineering and Operations (IJCIEOM 2024)	Salvador (BR), June 26th – 28th, 2024	Vitti M, Facchini F, Sassanelli C, Mummolo G *"An assignment model for high-cognitive-workload maintenance activities in Industry 5.0"*	Presenting author Scientific Committee	International
2023 – 5th International Conference on Industry 4.0 and Smart Manufacturing (ISM 2023)	Lisbon (PT), November 22th – 24th, 2023	Vitti M, Facchini F, Mossa G *"Comparing the decarbonization benefit provided by waste-based hydrogen routes to green steel production process: an analytical model"*	Scientific Committee	International
2023 – 29th International Joint Conference on Industrial Engineering and Operations (IJCIEOM 2023)	Lisbon (PT), June 28th – 30th, 2023	Facchini F, Mossa G, Vitti M *"An environmental analytical model to assess the decarbonization potential of Municipal Solid Waste- based hydrogen production routes"*	Presenting author	International
XXIV International Conference on Material Handling, Constructions and Logistics (MHCL 2022)	Bar (ME), December 14th – 16th, 2022		Organizing Committee Scientific Committee	International
2022 – 4th International Conference on Industry 4.0 and Smart Manufacturing (ISM 2022)	Linz (AT), November 2nd – 4th, 2022	Digiesi S, Facchini F, Mossa G, Vitti M *"A model to evaluate the Human Error Probability in inspection tasks of a production system"*	Scientific committee	International
2022 – 28th International Joint Conference on Industrial Engineering and Operations (IJCIEOM 2022)	Mexico City, July 18th – 20th, 2022	Facchini F, Cavallo D, Mummolo G "*A model to estimate operators' performance in accomplishing assembly tasks*"	Presenting author	International
2021 – International Conference on Industry 4.0 and Smart Manufacturing (ISM2021)	Online, 17-19/11/2021	Facchini F, Digiesi S, Pinto LFR, "*Implementation of I4.0 technologies in production systems: opportunities and limits in the digital transformation*"	Scientific committee Presenting author	International
2020 – International Conference on	Hagenberg-Linz, Austria 23-25/11/2020		Scientific committee	International

Industry 4.0 and Smart Manufacturing (ISM2020)				
2020 – International Scientific Conference on Industrial Systems (IS20)	Novi Sad, Serbia 7-9/10/2020		Scientific committee	International
2020 – 26th International Joint Conference on Industrial Engineering and Operations (IJCIEOM 2020)	Online 8-11/7/2020	Facchini F, Cavallo D, Mossa G, Mummolo G, *"Human Cognitive and Motor processing time in the aging workforce: an objective parameters-based model"*	Presenting author	International
2019 – The international conference on Industry 4.0 and Smart Manifacturing (ISM2019)	Rende, Italy 20-22/11/2019	Carli R, Digiesi S, Dotoli M, Facchini F, "*Control Strategy for Smart Energy Charging of Warehouse Material Handling Equipment*"	Scientific committee Presenting author	International
2019 – 9th IFAC Conference on Manufacturing Modelling, Management & Control (MIM2019)	Berlin, Germany 28-30/08/2019	Lucato WC, Pacchini APT, Facchini, F, Mummolo G, "*Model to evaluate the Industry 4.0 readiness degree in Industrial Companies*"	Track Chair Presenting author	International
2019 – 25th International Joint Conference on Industrial Engineering and Operations Management (IJCIEOM 2019)	Novi Sad, Serbian 15-17/07/2019	Facchini F, Digiesi S, Mummolo G, "*Model of Human Error Probability based on dual-phase approach for learning process in cognitive-oriented tasks*" Pinto LFR, Oliveira GC, Mummolo G, Digiesi S, Facchini F, "*Cleaner Production Initiatives in a Diesel Engines Factory*"	Scientific committee Presenting author	International
2018 – 1st Joint R&D International Conference (JORDI 2018)	Tbilisi, Georgia 17-19/10/2018	Industry 4.0 implications in logistics	Keynote speaker	International
2018 – 24th International Joint Conference on Industrial Engineering and Operations Management (IJCIEOM 2018)	Lisbon, Portugal 18-20/07/2018	Facchini F, De Chirico A, Mummolo G, "*Comparative Cost Evaluation of Material Removal Process and Additive Manufacturing in Aerospace Industry*"	Scientific committee Presenting author	International
2017 – 24th International Conference on Production Research (ICPR 2017)	Poznan, Poland 30/07/2017 – 02/08/2017	Facchini F, Digiesi S, Ranieri G "*A Model For Economic And Environmental Evaluation Of Inter-/Intra- Terminal Containers Flows*"	Track Chair Presenting author	International
2017 – International Joint Conference ICIEOM-ADINGOR-IISE-	Valencia, Spain 06-07/07/2017	Facchini F, Boenzi F, Digiesi S, Mummolo G, "*A model-based Decision Support System for multiple container terminals hub management*"	Track Chair Presenting author	International

AIM-ASEM (IJC 2017)		Digiesi S, Mossa G, Mummolo G, Verriello R, "*Environmental Performance of a Municipal Integrated Waste Management System vs. Citizens' Behavior*"		
2016 – XXXVI Encontro Nacional de Engenharia de Produção (ENEGEP 2016)	João Pessoa, Brazil 03-06/10/2016	Internet of Things (IoT) and Lifecycle Management	Keynote Speaker	International
2016 – 8th IFAC Conference on Manufacturing Modelling, Management & Control (MIM 2016)	Troyes, France 28-30/06/2016	Casalino G, Facchini F, Mortello M, Mummolo G, "*ANN modelling to optimize manufacturing processes: the case of laser welding*"	Presenting author	International
2015 – XX Summer School "Francesco Turco"	Napoli, Italy 16-18/09/2015	Boenzi F, Digiesi S, Facchini F, Mossa G, Mummolo G, "*Sustainable Warehouse Logistics: a NIP Model for non-road vehicles and storage configuration selection*"	Presenting author	International
2015 – XXI International Conference on Industrial Engineering and Operations Management (ICIEOM 2015)	Aveiro, Portugal 06-08/07/2015	Boenzi F, Digiesi S, Facchini F, Mossa G, Mummolo G, "*A Nonlinear Integer Programming Model for Warehousing Sustainable Logistics*"	Presenting author	International
2014 – XIX Summer School "Francesco Turco"	Senigallia, Italy 09-12/09/2014	Digiesi S, Facchini F, Mossa G, Mummolo G, "*Guidelines for Indoor Air Quality Sampling Strategy: the case of the Polycyclic Aromatic Hydrocarbons Air Pollution*"	Presenting author	International
2013 – The International Workshop on Innovation for Logistics (WIN-LOG 2013)	Campora S. Giovanni, Italy 14-15/11/2013	Digiesi S, Facchini F, Mossa G, Mummolo G, "*Polycyclic Aromatic Hydrocarbons (PAHs) Exposure estimation in sustainable logistic activities*"	Presenting author	International
2013 – 25th European Modelling & Simulation Symposium (EMSS 2013)	Athens, Greece 25-27/09/2013	Facchini F, Mossa G, Mummolo G, "*A model based on artificial neural network for risk assessment to Polycyclic Aromatic Hydrocarbons in workplace*"	Presenting author	International
2013 – XVIII Summer School	Senigallia, Italy 11-13/09/ 2013	Digiesi S, Facchini F, Mummolo G, "*An ANN_Simulation Hybrid Approach To Forecast Polycyclic Aromatic Hydrocarbons Concentrations in Indoor Industrial Work Environment*"	Presenting author	International
2012 – XVII Summer School	Venezia, Italy 12-14/09/2012	Digiesi S, Facchini F, Mossa G, "Safety devices for monitoring PAHs in workplace: a classification framework"	Presenting author	International

PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS

2026-present Associate Editor in Engineering Management Journal – Taylor and Francis.

Topic editor del Research Topic "Cognitive Workload Management in Industry 5.0: Human-Centric Design and Technological Integration" - Ergonomics and Human Factors in Frontiers in Industrial Engineering.

	Member of the Editorial Board – Peninsula Publishing Press - ESTIDAMAA
2026	Editor in Chief, Industrial Engineering and Operations Management—II XXXI IJCIEOM, Bari, Italy, June 23–25, 2025. Part of the book series (PROMS, volume 541) Springer Proceedings in Mathematics & Statistics
2023-present	Member of the Editorial Board – Academic Journal of Politics and Public Administration.
2022-present	Associate Editor in Frontiers in Industrial Engineering - Ergonomics and Human Factors.
2022-present	Member of the del Reviewer Board – Frontiers in Mechanical Engineering – Digital Manufacturing (Q2 – Industrial and Manufacturing Engineering).
2022-present	Editor of the Topical Collection "Human Factors in the Digital Society" published on "Applied Sciences" (Q2 – Computer Science Applications).
2020-present	Member of the Reviewer Board – Metals (Q1 – Metals and Alloys).
2020-2025	Member of the Technical Scientific Committee of the journal "Manutenzione & Asset Management" – Associazione Italiana Manutenzione (A.I.MAN).
2023-2025	Guest editor of the special Issue "*Smart Cities and the Need for Green Energy*" published on Energies (Q1 - Engineering).
2022-2023	Guest associate editor of the Special Issue "Food Loss and Waste Management, From the Grave to the Cradle: A New Resource for the World" published on "Frontiers in Sustainable Food Systems" (Q1 – Agronomy and Crop Science).
2021-2022	Guest editor of the Special Issue "*Sustainable Manufacturing Management*" published on Sustainability (Q1 – Geography, Planning and Developement).
2021	Member of the Editorial Advisory Board dell' "*Handbook of Research on Applied Data Science and Artificial Intelligence in Business and Industry"* IGI Global– ISBN 139781799869856 https://doi.org/10.4018/978-1-7998-6985-6
2020-2021	Guest editor of the special Issue "*Mechanical Industrial Plants for Solid Waste Treatment*" published on Energies (Q2 - Control and optimization).

PEER REVIEW ACTIVITIES

- International Journal
    - 2026-present: Space Habitation.
    - 2025-present: De Gruyter Brill - Biomedical Engineering, Journal of Engineering Design, Journal of Simulation, Resources, Conservation & Recycling Advances, Ironmaking & Steelmaking, Operations Management Research, Elsevier Array, PLOS One.
    - 2024- present: Cleaner Engineering and Technology, Human Factors in Healthcare, Computers and Operations Research, International Journal of Occupational Safety and Ergonomics, Wiley Sustainable Development, International Journal of Production Economics, Engineering Reports, Journal of Open Innovation: Technology, Market, and Complexity.
    - 2023- present: Technological Forecasting & Social Change, Technology in Society, Journal of Industrial Information Integration, Smart Science, Sustainable Production and Consumption, Process Integration and Optimization for Sustainability, Engineering Management Journal, Environmental Impact Assessment Review, Trends in Food Science & Technology, Polish Maritime Research.
    - 2022- present: Production & Manufacturing Research, Journal of Advanced Transportation, Production Planning & Control, Process, Symmetry, International Journal of Automotive and

Mechanical Engineering, Advances in Materials Science and Engineering, AIMS Agriculture and Food.

- 2021- present: Journal of Industrial Engineering and Management, Journal of Engineering Business Management, IEEE Access, Elsevier Heliyon, Elsevier Ecological Indicators, European Journal of Industrial Engineering, Frontiers in Sustainable Food Systems, Elsevier Journal of King Saud University, International Journal of Logistics Systems and Management, International Journal of Quality & Reliability Management.
- 2020- present: International Journal of Management Science, Transactions of the Institute of Measurement and Control, International Journal of Productivity and Performance Management, International Journal of Management Science and Engineering Management, Journal of Cleaner Production, Journal of Manufacturing Science and Engineering, Ships and Offshore Structures, Elsevier Expert Systems With Applications, IET Collaborative Intelligent Manufacturing, Journal of Pure and Applied Microbiology, Elsevier Omega.
- 2019- present: Elsevier Engineering Science and Technology, an International Journal, Elsevier Sustainable Materials and Technologies, Management and Production Engineering Review, IEEE - Transactions on Engineering Management, MDPI Materials.
- 2018- present: Waste Management, MDPI Logistics, Computers & Industrial Engineering.
- 2017- present: MDPI Algorithms, MDPI Sustainability.
- 2016- present: MDPI Metals, MDPI Applied Sciences.

- International Conference
  - 02/2026 3rd International Conference on Connected Innovation and Technology
  - 01/2026 IFAC World Congress 2026
  - 05/2025 XXX Summer school "Francesco Turco"
  - 04/2025 Advances in Production Management Systems 2025
  - 03/2025 31th Int. Joint Conf. on Industrial Engineering and Operation Management
  - 01/2025 11th IFAC Conference on Manufacturing Modelling, Management and Control
  - 10/2024 32nd Conference on Life Cycle Engineering 2025
  - 10/2024 5th IFAC/INSTICC IN4PL 2024
  - 07/2024 Sustainable Design and Manufacturing 2024
  - 06/2024 6th International Conference on Industry 4.0 and Smart Manufacturing
  - 06/2024 XXIX Summer school "Francesco Turco"
  - 06/2024 18th IFAC Symposium on Information Control Problems in Manufacturing
  - 06/2024 6th Advanced Maintenance Engineering, Services and Technology
  - 05/2024 Institute of Industrial and Systems Engineers Annual conference
  - 08/2023 5th International Conference on Industry 4.0 and Smart Manufacturing
  - 02/2023 29th Int. Joint Conf. on Industrial Engineering and Operation Management
  - 08/2022 4th International Conference on Industry 4.0 and Smart Manufacturing
  - 06/2022 XXVII Summer school "Francesco Turco"
  - 04/2022 6th International Conference on Food and Wine Supply Chain
  - 04/2022 XXVII Int. Joint Conf. on Industrial Engineering and Operation Management
  - 03/2022 IFAC 2022 Int. Conf. on Manufacturing Modeling, Management and Control
  - 02/2021 29th Mediterranean Conference on Control and Automation
  - 02/2021 17th IFAC Symposium on Information Control Problems in Manufacturing
  - 09/2020 18th International Scientific Conference on Industrial Systems
  - 08/2020 International Conference on Industry 4.0 and Smart Manufacturing
  - 04/2020 XXVI Int. Joint Conf. on Industrial Engineering and Operation Management
  - 05/2019 IEEE 2019 International Conference on Systems, Man and Cybernetics
  - 04/2019 XXV Int. Joint Conf. on Industrial Engineering and Operation Management
  - 01/2019 IFAC 2019 Int. Conf. on Manufacturing Modeling, Management and Control
  - 04/2018 XXIV Int. Conf. on Industrial Engineering and Operations Management
  - 01/2018 IFAC 2018 Symposium on Information Control Problems in Manufacturing
  - 06/2017 24th International Conference on Production Research

- 04/2017 IEEE 2017 Int. Conf. on Service Operations and Logistics, and Information
- 03/2017 XXIII Int. Conf. on Industrial Engineering and Operations Management
- 01/2016 IFAC 2016 Int. Conf. on Manufacturing Modeling, Management and Control
- 03/2016 XXII Int. Conf. on Industrial Engineering and Operations Management
- 06/2015 27th European Modeling & Simulation Symposium
- 03/2015 XXI Int. Conf. on Industrial Engineering and Operations Management
- 02/2015 IFAC 2015 Symposium on Information Control Problems in Manufacturing

AFFILIATIONS

2025-present Member of the Community "Operator 4.0 Research Network"

2015-present Board Member of the Scientific Committee of the Collaborative Research Network on Supply Chain 4.0 (ISSC4)

2014-present Member of the "Associazione Italiana dei Docenti di Impianti Industriali" (AIDI).

AWARDS AND RECOGNITIONS

- Best Paper Award – 32nd International Joint Conference on Industrial Engineering and Operations Management. University of Aveiro; Aveiro (PT) June 22nd - 24th, 2026
- Best Reviewer Award – 32nd International Joint Conference on Industrial Engineering and Operations Management. University of Aveiro; Aveiro (PT) June 22nd - 24th, 2026
- Awards Finalist 2024 – 21st International Conference on Product Lifecycle Management; Bangkok, July 7th -10th
- Best Paper Award 2022 – 28th International Joint Conference on Industrial Engineering and Operations Management. Anáhuac México University; Mexico City July 17th - 20th
- Winner of the "Progetto Ingegneria" Award as the lecturer most highly rated by students in the academic year 2019/20 for the Master's Degree Course in Management Engineering of the Polytechnic University of Bari. http://www.progettoingegneria.it/premio-docenti-piu-votati-del-politecnico-di-bari-a-a-2019-20/

SCIENTIFIC PUBLICATIONS

§ Publications indexed in [SCOPUS] and/or [WoS] (Web of Science) are indicated in parentheses.

[IJ] International Journals

IJ1. Centoamore P, Mello FB, Santos LNS, Doretto MM, Quintero AB, Facchini F, Pinto LFR (2026), Circular Economy Pathways for End-of-Life Wind Turbine Blades and Their Environmental Implications and Potential Urban Applications. *Sustainable Development,* https://doi.org/10.1002/sd.71777 [SCOPUS] [WOS]

IJ2. Oleśków-Szłapka J, Facchini F (2026), Lightweight Deep Learning for Real-Time Anomaly Detection on Intelligent Edge Devices. *Journal of Smart Computing*, http://doi.org/10.5281/zenodo.23265836

IJ3. Vido M, Facchini F, Digiesi S, Neto G, Lourenço SR (2026), A Structured Review of Virtual Commissioning: Simulation Fidelity, Industrial Validation, and Design-Oriented Decision-Making. *Results in Engineering*, https://doi.org/10.1016/j.rineng.2026.112835 [SCOPUS] [WOS]

IJ4. Manghisi V, Facchini F, Manghisi V (2026), A multimodal analytical framework to estimate human error probability in cognitive-oriented tasks. *Cognition, Technology & Work*, https://doi.org/10.1007/s10111-026-00895-0 [SCOPUS] [WOS]

IJ5. Vido M, Neto G, Facchini F, Digiesi S (2025), Toward a Human-Centric and Cognitive Integration Paradigm in Industry 5.0: Implications for Production Engineering. *IET Collaborative Intelligent Manufacturing*, vol 7 (1), e70050, https://doi.org/10.1049/cim2.70050 [SCOPUS] [WOS]

IJ6. Vitti M, Cotruvo A, Facchini F (2025), Toward human-centric Industry 5.0: a framework for cognitive workload assessment in maintenance and assembly. *Journal of Intelligent Manufacturing*, https://doi.org/10.1007/s10845-025-02716-z [SCOPUS] [WOS]

IJ7. Tucci HNP, Facchini F (2025), Ground support equipment and flight delays: a multivariate analysis in different locations. *CEAS Aeronautical Journal,* https://doi.org/10.1007/s13272-025-00891-6 [SCOPUS] [WOS]

IJ8. Martin ADS, Pinto LFR, Neto GCO, Facchini F (2025), Collaborative Robot in Engine Assembly: A Socioeconomic Approach to Technological Advancement in Manufacturing. *IET Collaborative Intelligent Manufacturing*, vol 7 (1), e70044, https://doi.org/10.1049/cim2.70044 [SCOPUS] [WOS]

IJ9. Vitti M, Padovano A, Facchini F (2025), A review on cognitive workload for industry 5.0. *Computers & Industrial Engineering*, vol 270, 111350, https://doi.org/10.1016/j.cie.2025.111350 [SCOPUS] [WOS]

IJ10. Rodrigues FL, Neto GCO, Tucci HNP, Pinto LFR, Facchini F (2025), Evaluation of the Operational, Economic, and Environmental Benefits of Adopting Blue Economy in the Change of Aircraft Engine Washing Process: A Case Study. *Engineering Reports,* vol 7(6), e70226, https://doi.org/10.1002/eng2.70226 [SCOPUS] [WOS]

IJ11. Vitti M, Facchini F, Sassanelli (2025), A systematic literature review on the adoption of the Hub-and-Spoke model for pharmaceutical centralised procurement: Trends, challenges, and Implications. *Computers & Industrial Engineering*, 206 (111249), https://doi.org/10.1016/j.cie.2025.111249 [SCOPUS] [WOS]

IJ12. Lucchese A, Padovano A, Facchini F (2025), Comprehensive Systematic Literature Review on Cognitive
Workload: Trends on Methods, Technologies and Case Studies. *IET Collaborative Intelligent Manufacturing,* 7:e70025, https://doi.org/10.1049/cim2.70025 [SCOPUS] [WOS]

IJ13. Karimi N, Javanmardi E, Nadaffard A, Facchini F (2025), Systematic analysis and optimization of operational delay factors in port supply chains using a hybrid DEMATEL-OPA-DGRA approach. *Ocean and Coastal Management*, 263, 107620, https://doi.org/10.1016/j.ocecoaman.2025.107620 [SCOPUS] [WOS]

IJ14. Domingos E, Pereira C, Armellini F, Danjou C, Facchini F (2024), Enabling technologies as a support to achieve resilience in supply chain operations. *IEEE Transactions on Engineering Management*, https://doi.org/10.1109/TEM.2024.3477946 [SCOPUS] [WOS]

IJ15. Silvestri B, Facchini F, Digiesi S, Ranieri L (2024), A sustainable management model to reduce food loss and waste in agro-processing industries. *International Journal of Food Engineering.* https://doi.org/10.1515/ijfe-2023-0050 [SCOPUS] [WOS]

IJ16. Xavier Belem MJ, Vieira Junior M, Mummolo G, Facchini F (2024), A conceptual model for evaluating eco-efficiency of thermal spraying processes. *Heliyon,* 10(12), e32414, https://doi.org/10.1016/j.heliyon.2024.e32414 [SCOPUS] [WOS]

IJ17. Vitti M, Facchini F, Mummolo G (2024), Assessing the decarbonisation potential of waste-to-hydrogen routes in the energy transition phase: An environmental analytical model. *Journal of Cleaner Production*, 457, 142345, https://doi.org/10.1016/j.jclepro.2024.142345 [SCOPUS] [WOS]

IJ18. Tota R, Facchini F, Iavagnilio RP, Mossa G, Sassanelli, C (2024), Digital twin supporting environmental performance evaluation according to ISO certification: an application case in the tire industry. *Production & Manufacturing Research*, 12(1). https://doi.org/10.1080/21693277.2024.2351839 [SCOPUS] [WOS]

IJ19. Ferrante M, Vitti M, Facchini F, Sassanelli C (2024), Mapping the relations between the circular economy rebound effects dimensions: A systematic literature review. *Journal of Cleaner Production,* 142399. https://doi.org/10.1016/j.jclepro.2024.142399 [SCOPUS] [WOS]

IJ20. Vido M, Digiesi S, Facchini F, Lucato WC (2024), Collaborative robots in small and medium-sized enterprises: a field-based feasibility model. *Int. J. Manufacturing Technology and Management*, Vol. 38, No. 3, pp.265–282. https://doi.org/10.1504/IJMTM.2024.10063357 [SCOPUS]

IJ21. de Oliveira DEP, Miranda AC, Viera M, Santana JCC, Tambourgi EB, Facchini F, Iavagnilio R, Pinto, LFR (2024), Economic and Environmental Feasibility of Cogeneration from Food Waste: A Case Study in São Paulo City. *Sustainability* 16, 2979. https://doi.org/10.3390/su16072979 [SCOPUS] [WOS]

IJ22. de Souza Machado ACC, Filho GLT, de Abreu TM, Facchini F, da Silva RF, Pinto LFR (2023), Use of Balanced Scorecard (BSC) Performance Indicators for Small-Scale Hydropower Project Attractiveness Analysis, *Energies*, 16, 6615; https://doi.org/10.3390/en16186615 [SCOPUS] [WOS]

IJ23. Facchini F, Mossa G, Sassanelli C, Digiesi S (2023), IoT-based milk-run routing for manufacturing system: an application case in an automotive company, *International Journal of Production Research*, https://doi.org/10.1080/00207543.2023.2254408 [SCOPUS] [WOS]

IJ24. Colangelo G, Facchini F, Ranieri L, Starace G, Vitti M (2023), Assessment of carbon emissions' effects on the investments in conventional and innovative waste-to-energy treatments. *Journal of Cleaner Production*, 135849; https://doi.org/10.1016/j.jclepro.2023.135849 [SCOPUS] [WOS]

IJ25. Facchini F, Silvestri B, Digiesi S, Lucchese A (2023), Agri-food loss and waste management: Win-win strategies for edible discarded fruits and vegetables sustainable reuse. *Innovative Food Science & Emerging Technologies*, 103235; https://doi.org/10.1016/j.ifset.2022.103235 [SCOPUS]

IJ26. Cavallo D, Digiesi S, Facchini F, Mummolo G (2022), An information-based model to assess human cognitive capacity and information processing speed of operators in industry 4.0. *International Journal of Simulation and Process Modelling,* 18(2), 101-111; https://doi.org/10.1504/IJSPM.2022.126101 [SCOPUS]

IJ27. Lucchese A, Facchini F, Mossa G, Mummolo G, Sisto FP (2022), A numerical assessment of the influence of Industry 4.0 technologies on the cognitive complexity of procedure-guided tasks. *International Journal of Simulation and Process Modelling*, 18(2), 112-123; https://doi.org/10.1504/IJSPM.2022.126105 [SCOPUS]

IJ28. Boenzi F, Digiesi S, Facchini F, Silvestri B (2022), Life Cycle Assessment in the Agri-Food Supply Chain: Fresh Versus Semi-Finished Based Production Process. *Sustainability*, 14(20), 13010; https://doi.org/10.3390/su142013010 [SCOPUS] [WOS]

IJ29. Pinto LFR, Tucci HNP, Mummolo G, Oliveira Neto GC, Facchini F (2022), Circular Economy Approach on Energy Cogeneration in Petroleum Refining. *Energies*, 15(5), 1713; https://doi.org/10.3390/en15051713 [SCOPUS] [WOS]

IJ30. Lanzilotti CO, Pinto LFR, Facchini F, Digiesi S (2022), Embedding Product-Service System of Cutting Tools into the Machining Process: An Eco-Efficiency Approach toward Sustainable Development. *Sustainability*, 14(3), 1100; https://doi.org/10.3390/su14031100 [SCOPUS] [WOS]

IJ31. Facchini F, Mossa G, Mummolo G, Vitti M (2021), An Economic Model to Assess Profitable Scenarios of EAF-Based Steelmaking Plants under Uncertain Conditions. *Energies*, 14(21), 7395; https://doi.org/10.3390/en14217395 [SCOPUS] [WOS]

IJ32. Xavier Belem MJ, Vieira Junior M, Mummolo G, Facchini F (2021), An AHP-Based Procedure for Model Selection for Eco-Efficiency Assessment. *Sustainability*, 13(21), 12121; https://doi.org/10.3390/su132112121 [SCOPUS] [WOS]

IJ33. Facchini F, Ranieri L, Vitti M (2021), A Neural Network Model for Decision-Making with Application in Sewage Sludge Management. *Applied Sciences*, 11(12), 5434, 2021; https://doi.org/10.3390/app11125434 [SCOPUS] [WOS]

IJ34. Facchini F, Mummolo G, Vitti M (2021), Scenario Analysis for Selecting Sewage Sludge-to-Energy/Matter Recovery Processes. *Energies*, vol. 14(2), 276, https://doi.org/10.3390/en14020276 [SCOPUS] [WOS]

IJ35. Pinto LFR, Pereira Venturini GdF, Digiesi S, Facchini F, Oliveira Neto GC (2020), Sustainability Assessment in Manufacturing under a Strong Sustainability Perspective-An Ecological Neutrality Initiative. *Sustainability* 2020, 12(21), 9232; https://doi.org/10.3390/su12219232 [SCOPUS] [WOS]

IJ36. Digiesi S, Manghisi VM, Facchini F, Klose EM, Foglia MM, Mummolo C (2020), Heart rate variability based assessment of cognitive workload in smart operators. *Management and Production Engineering Review*, vol. 11 (3), p. 56-64, http://doi.org/10.24425/mper.2020.134932 [SCOPUS] [WOS]

IJ37. Gomes MG, Carlquist da Silva VH, Pinto LFR, Centoamore P, Digiesi S, Facchini F, Neto GC (2020), Economic, Environmental and Social Gains of the Implementation of Artificial Intelligence at Dam Operations toward Industry 4.0 Principles. *Sustainability*, vol. 12 (3604), 2020, https://doi.org/10.3390/su12093604 [SCOPUS] [WOS]

IJ38. Facchini F, Digiesi S, Mossa G (2020), Optimal dry port configuration for container terminals: A non-linear model for sustainable decision making. *International Journal of Production Economics*, vol. 219, Pag. 164-178, https://doi.org/10.1016/j.ijpe.2019.06.004 [SCOPUS] [WOS]

IJ39. Carli R, Dotoli M, Digiesi S, Facchini F, Mossa G (2020), Sustainable Scheduling of Material Handling Activities in Labor-Intensive Warehouses: A Decision and Control Model. *Sustainability*, vol. 12 (3111), https://doi.org/10.3390/su12083111 [SCOPUS] [WOS]

IJ40. Facchini F, Digiesi S, Mummolo G (2020), Model of Human Error Probability based on dual-phase approach for learning process in cognitive-oriented tasks. *International Journal Of Industrial Engineering and Management*, vol. 11, p. 31-39, ISSN: 2217-2661, 8. http://doi.org/10.24867/IJIEM-2020-1-250 [SCOPUS]

IJ41. Pinto LFR, Oliveira Neto GC, Mummolo G, Digiesi S, Facchini F, Centoamore P (2020), Cleaner Production Initiatives in a Diesel Engines Factory. *International Journal Of Industrial Engineering and Management*, vol. 11 (2), p. 1-8, ISSN: 2217-2661, http://doi.org/10.24867/IJIEM-2020-2-254 [SCOPUS]

IJ42. Facchini F, Oleśków-Szłapka J, Ranieri L, Urbinati A (2020), A Maturity Model for Logistics 4.0: An Empirical Analysis and a Roadmap for Future Research. *Sustainability*, 12 (1), https://doi.org/10.3390/su12010086 [SCOPUS] [WOS]

IJ43. Pacchini APT, Lucato WC, Facchini F, Mummolo G (2019), The degree of readiness for the implementation of Industry 4.0. *Computers in Industry*, 113, 103125, https://doi.org/10.1016/j.compind.2019.103125 [SCOPUS] [WOS]

IJ44. Intranuovo G, De Maria L, Facchini F, Armenise G, Caputi A, Birtolo F, Vimercati L (2019), Risk assessment of upper limbs repetitive movements in a fish industry. *BMC Research Note*, vol. 12:354, https://doi.org/10.1186/s13104-019-4392-z [SCOPUS] [WOS]

IJ45. Digiesi S, Facchini F, Mummolo G (2019), Dry port as a Lean and Green strategy in a container terminal hub: a Mathematical programming Model. *Management and Production Engineering Review*, vol. 10, no. 1, Pag. 14-28, http://doi.org/10.24425/mper.2019.128240 [SCOPUS] [WOS]

IJ46. Digiesi S, Facchini F, Mossa G, Mummolo G (2018), Minimizing and Balancing Ergonomic Risk of Workers of an Assembly Line by Job Rotation: a MINLP Model. *International Journal of Industrial Engineering and Management*, vol. 9, no. 3, Pag. 129-138, http://doi.org/10.24867/IJIEM-2018-3-129 [SCOPUS]

IJ47. Facchini F, De Pascale G, Faccilongo N (2018), Pallet Picking Strategy in Food Collecting Center. *Applied Sciences* - ISSN 2076-3417, 2018, 8, 1503, doi: http://dx.doi.org/10.3390/app8091503 [SCOPUS] [WOS]

IJ48. Facchini F, Boenzi F, Digiesi S, Mummolo G (2018), A model-based Decision Support System for multiple container terminals hub management. *Production Journal*, 28 - ISBN 1980-5411, Print ISBN 0103-6513 - doi: http://dx.doi.org/10.1590/0103-6513.20170074 [SCOPUS]

IJ49. Facchini F, Boenzi F, Digiesi S, Mossa G, Mummolo G, Verriello R (2016), Minimizing the Carbon Footprint of Material Handling Equipment: comparison of electric and LPG forklifts. *Journal of Industrial Engineering and Management* - 9(5) 1035-1046 - Online: 2013-0953 - ISSN 2013-8423. doi: http://dx.doi.org/10.3926/jiem.2082 [SCOPUS] [WOS]

IJ50. De Filippis LAC, Serio LM, Facchini F, Mummolo G, Ludovico ADL (2016), Prediction of the Vickers Microhardness and Ultimate Tensile Strength of AA5754 H111 Friction Stir Welding Butt Joints Using Artificial Neural Network. *Materials*; ISSN 1996-1944; 9(11), 915; doi: https://doi.org/10.3390/ma9110915 [SCOPUS] [WOS]

[NJ] National Journals / Articoli in riviste nazionali

NJ1. De Filippis LAC, Serio LM, Facchini F, Mummolo G, Ludovico ADL (2016), Giunti di testa in lega di alluminio 5754-H111 realizzati con il processo di Friction Stir Welding: applicazione delle reti neurali artificiali per la previsione delle caratteristiche meccaniche dei giunti. *Rivista della Saldatura*; ISSN 0035-6794; pag.653-665 (5) [SCOPUS]

[E] Editorials

E1. Silvestri B, Ranieri L, Facchini F (2024), Editorial: Food loss and waste management, from the grave to the cradle: a new resource for the world. *Frontiers in Sustainable Food Systems* 7:1355323. doi: https://doi.org/10.3389/fsufs.2023.1355323

[B] Books / Libri

B1. Facchini F, Sassanelli C, Mummolo G, Reis J, Industrial Engineering and Operations Management—II. XXXI IJCIEOM, Bari, Italy, June 23–25, 2025 - Springer Proceedings in Mathematics & Statistics. https://doi.org/10.1007/978-3-032-19167-0 [SCOPUS]

[C] Chapters

C1. De Finis RD, Facchini Palumbo D. F, Serio LM (2021), Recent advances in controlling, monitoring and optimization of the Friction Stir Welding process. *Handbook of Welding: Processes, Control and Simulation*, Nova Science Publishers, Inc., 425-464 ISBN978-153619792-1, 978-153619685-6 [SCOPUS]

C2. Oleśków-Szłapka J, Pawłyszyn I, Facchini F, Stachowiak A, Tanajura Ellefsen AP (2020), Sustainable City Mobility-Comparison of Actual State in Selected European Countries. In: Golinska-Dawson P., Tsai KM., Kosacka-Olejnik M. (eds) *Smart and Sustainable Supply Chain and Logistics - Trends, Challenges, Methods and Best Practices*. Springer, Cham. https://doi.org/10.1007/978-3-030-61947-3_9

C3. De Filippis LAC, Serio LM, Facchini F, Mummolo G (2018), Chapter 11 - ANN Modelling to Optimize Manufacturing Process. *Advanced Applications for Artificial Neural Networks*, - ISBN 978-953-51-3781-8, Print ISBN 978-953-51-3780-1, Dr. Adel El Shahat (Ed.), InTech, doi: https://doi.org/10.5772/intechopen.71237

C4. Boenzi F, Digiesi S, Facchini F, Mossa G, Mummolo G (2016), A Nonlinear Integer Programming Model for Warehousing Sustainable Logistics. In: *Springer Lecture Notes in Management and Industrial Engineering*, volume: Engineering Systems and Networks,. Pag 99-107. ISSN: 2198-0772 – doi: https://doi.org/10.1007/978-3-319-45748-2_11

[IC] International Conferences

IC1. Grimaldi V, Centrone V, Cotruvo A, Lucchese A, Pinto LFR, Facchini F (2026). Development of an analytical model for operator-task matching in maintenance 5.0. In: *Procedia Computer Science 7th International Conference on Industry 4.0 and Future and Smart Manufacturing*, La Valletta (MT) 12-14 November 2026, 277, 2933-2942, https://doi.org/10.1016/j.procs.2026.02.329 [SCOPUS] [WOS]

IC2. Grimaldi V, Manghisi VM, Evangelista A, Mossa G, Facchini F (2026). The influence of individual characteristics on task execution time prediction under variable time constraints: A within-subject study. In: *Procedia Computer Science 7th International Conference on Industry 4.0 and Future and Smart Manufacturing*, La Valletta (MT) 12-14 November 2026, 277, 2408-2417, https://doi.org/10.1016/j.procs.2026.02.277 [SCOPUS] [WOS]

IC3. Cardamone M, Elbasheer M, Facchini F, Mirabelli G, Padovano A, Sammarco C, Vitti M (2025). Bridging Cognitive Digital Twins and Cognitive User Interfaces: A Systematic Literature Review. In: *Procedia Computer Science, 22nd International Multidisciplinary Modeling and Simulation Multiconference,* I3M 2025, Fes (MA) 17 September – 19 September 2025, 274, 1186-1195, https://doi.org/10.1016/j.procs.2025.12.116 [SCOPUS] [WOS]

IC4. Cotruvo A, Vitti M, Grimaldi V, Mossa G, Facchini F (2025). A preliminary investigation on task-feature combinations for assigning maintenance tasks in Industry 5.0. In: *IFAC-PapersOnLine, 11th IFAC Conference on Manufacturing Modelling, Management and Control* MIM 2025, 30 June -03 July 2025, 59(10), 2670-2675, https://doi.org/10.1016/j.ifacol.2025.09.449 [SCOPUS] [WOS]

IC5. Cotruvo A, Facchini G, Mossa G, Mummolo G (2025). A Centralized Distribution Network Model for Reducing Economic and Environmental Impact in Healthcare Logistics. In: *Proceedings of the 30th Summer School "Francesco Turco"*, 10-12 September 2025, ISSN: 22838996 [SCOPUS]

IC6. Vitti M, Sassanelli C, Iavagnilio RP, Mossa G, Facchini F (2025). Exploring the Influence of Operator Features on the Performance of Maintenance Tasks: Insight from Industry Experts. In: *Advances in Production Management Systems*, Kamakura (JP) 31 August-4 September 2025, 169-183, https://doi.org/10.1007/978-3-032-03534-9_12 [SCOPUS]

IC7. Ferrante M, Vitti M, Facchini F, Sassanelli C. (2025). Circular Economy Rebound Effect: Theoretical Implications and a Research Agenda. In: *Proceedings of the 2st IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2024* – 740 1-14, Bangkok (TH) 7-10 July 2024, https://doi.org/10.1007/978-3-031-93319-6_1 [SCOPUS]

IC8. Ferrante M, Vitti M, Facchini F, Sassanelli C. (2025). Investigating the Potential of Technologies in Circular Economy's Rebound Effect Dimensions. In: *Proceedings of the I-ESA Conferences* – 12 193-205, Chania (GR) 10-12 April 2024, https://doi.org/10.1007/978-3-031-93995-2_16 [SCOPUS]

IC9. Vitti M, Facchini F, Sassanelli C, Mummolo G. (2025), An Assignment Model for High-Cognitive-Workload Maintenance Activities in Industry 5.0. In: *International Joint conference on Industrial Engineering and Operations Management - IJCIEOM 2024*, 483 183-194, Salvador (BR) 26-28 June 2024, https://doi.org/10.1007/978-3-031-80785-5_14 [SCOPUS]

IC10. Vitti M, Coletta R, Reis J, Pinto FS, Facchini F (2025), Enhancing MRP Adoption in SMEs: A Python-Based Algorithmic Approach. In: *Procedia Computer Science 6th International Conference on Industry 4.0 and Smart Manufacturing*, Prague (CZ) 20-22 November 2024, 253, 3088-3097, https://doi.org/10.1016/j.procs.2025.02.033 [SCOPUS] [WOS]

IC11. Oliveri L, Chiacchio F, Lo Iacono N, Vitti M, Facchini F (2025), Enhancing Maintenance Operations in Industry 5.0: A Conceptual User Interface Design for Task Assignment. In: *Procedia Computer Science 6th International Conference on Industry 4.0 and Smart Manufacturing*, Prague (CZ) 20-22 November 2024, 253, 3015-3024, https://doi.org/10.1016/j.procs.2025.02.026 [SCOPUS] [WOS]

IC12. Vitti M, Osnato F, Facchini F, Sassanelli C, Romero D (2024), Investigating Maintenance Operations in Industry 5.0: Towards a Cognitive-Oriented Maintenance 4.0 Tasks Framework. In: *Proceedings of the 29th Summer School "Francesco Turco"*, 11-13 September 2024, ISSN: 22838996 [SCOPUS]

IC13. Nadaffard A, Oliveri LM, D'Urso D, Facchini F, Sassanelli C (2024), Exploring the Cognitive Workload Assessment According to Human-Centric Principles in Industry 5.0. In: *Advances in Production Management*

Systems, Chemnitz (DE) 8-12 September 2024, 457-469, https://doi.org/10.1007/978-3-031-65894-5_32 [SCOPUS]

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Bari, 19 October 2026 *Francesco Facchini*