

Alessandro Neri

09/04/1996

Dipartimento di Ingegneria Industriale

Alma Mater Studiorum — Università di Bologna

[Email](#) • [Altri contatti](#)

Posizione Attuale

Dottorando in Automotive Engineering for Intelligent Mobility (Ciclo XXXVIII)

Dipartimento di Ingegneria Industriale — Università di Bologna

Research Topic: Innovative sustainable design approaches and efficient production systems for the automotive sector

Istruzione

- | | |
|-----------------|--|
| 2022 – Presente | Università di Bologna – Bologna, Italia
Dottorato in Automotive Engineering for Intelligent Mobility
Tutor: Prof. Rita Gamberini, Dr. Maria Angela Butturi. |
| 2017 – 2019 | Università di Modena e Reggio Emilia – Reggio Emilia, Italia
Laurea Magistrale in Ingegneria Gestionale
<i>Voto Finale: 110/110.</i> |

Attività Accademiche

- | | |
|-------------|--|
| 2024 – 2025 | University of Modena and Reggio Emilia – Reggio Emilia, Italy
Insegnante di “Logistica e Gestione della Produzione”, Laurea Triennale in Ingegneria Gestionale – Anno Accademico 2024/2025 |
|-------------|--|

Pubblicazioni Indicizzate

- | | |
|------|--|
| 2025 | Neri, A., Butturi, M. A., Tomasin Da Silva, L., Lolli, F., Gamberini, R., & Sellitto, M. A. (2025). <i>Fostering lithium-ion battery remanufacturing through Industry 5.0.</i> International Journal on Interactive Design and Manufacturing (IJIDeM).
https://doi.org/10.1007/s12008-025-02229-2 |
|------|--|

- 2025 Butturi, M. A., Neri, A., Mercalli, F., & Gamberini, R. (2025). *Sustainability-Oriented Innovation in the Textile Manufacturing Industry: Pre-Consumer Waste Recovery and Circular Patterns*. **Environments**, 12(3), Article 3. <https://doi.org/10.3390/environments12030082>
- 2024 Neri, A., Butturi, M. A., & Gamberini, R. (2024). *Sustainable management of electric vehicle battery remanufacturing: A systematic literature review and future directions*. **Journal of Manufacturing Systems**, 77, 859–874. <https://doi.org/10.1016/j.jmsy.2024.10.006>
- 2024 Neri, A., Butturi, M. A., Lolli, F., & Gamberini, R. (2024). *Enhancing Waste-to-Energy and Hydrogen Production through Urban–Industrial Symbiosis: A Multi-Objective Optimisation Model Incorporating a Bayesian Best–Worst Method*. **Smart Cities**, 7(2), Article 2. <https://doi.org/10.3390/smartcities7020030>
- 2023 Neri, A., Butturi, M. A., Lolli, F., & Gamberini, R. (2023). Inter-firm exchanges, distributed renewable energy generation, and battery energy storage system integration via microgrids for energy symbiosis. **Journal of Cleaner Production**, 414, 137529. <https://doi.org/10.1016/j.jclepro.2023.137529>

Atti di Convegni Indicizzati

- 2024 Neri, A., Butturi, M. A., Sauer, H. L., Lolli, F., Gamberini, R., & Sellitto, M. A. (2024). *Distributed Ledger Technology selection for Digital Battery Passport: A BWM-TOPSIS approach*. **IFAC-PapersOnLine**, 58(19), 480–485. <https://doi.org/10.1016/j.ifacol.2024.09.258>
- 2024 Neri, A., Butturi, M. A., Scapinelli, A., Lolli, F., & Gamberini, R. (2024). *Renewable Energy Communities in Rural Areas: A Hybrid GIS-MCDM Approach for Agrivoltaic Systems Site Selection*. **Proceedings of the Summer School Francesco Turco**. 29th Summer School Francesco Turco. Article IN PRESS.
- 2024 Neri, A., Butturi, M. A., Bonini, F., Lolli, F., & Gamberini, R. (2024). *Blockchain-Based Carbon Emissions Tracking in Supply Chains: A Smart Contract Solution for Scope 3 Reporting*. **Proceedings of the Summer School Francesco Turco**. 29th Summer School Francesco Turco. Article IN PRESS.
- 2024 Neri, A., Butturi, M. A., da Silva, L. T., Lolli, F., Gamberini, R., & Sellitto, M. A. (2024). *Exploring Industry 5.0 for Remanufacturing of Lithium-Ion Batteries in Electric Vehicles*. **Advances in Remanufacturing**, https://doi.org/10.1007/978-3-031-52649-7_5

- 2023 Savian, F., Tomasin Da Silva, L., Sellitto, M., Sauer Oliveira, H. L., Neri, A., & Butturi, M. A. (2023). *Green Hydrogen, Industrial Symbiosis, And Blockchain: Enhancing Sustainability And Resilience In Supply Chains*. **ECMS 2023** Proceedings Edited by Enrico Vicario, Romeo Bandinelli, Virginia Fani, Michele Mastroianni, 350–356. <https://doi.org/10.7148/2023-0350>
- 2023 Neri, A., Butturi, M. A., Lolli, F., & Gamberini, R. (2023). *Empowering rural districts with Urban-Industrial Symbiosis: A multiobjective model for Waste-to-Energy cogeneration and hydrogen sustainable networks*. **Proceedings of the Summer School Francesco Turco**. 28th Summer School Francesco Turco.
- 2022 Coruzzolo, A. M., Rossini, S., Neri, A., Lolli, F., Gamberini, R., & Regattieri, A. (2022). *Semi-Automatic Rapid Upper Limb Assessment (RULA) with Azure Kinect of assembly and disassembly tasks, and the related learning curve*. **Proceedings of the Summer School Francesco Turco**. 27th Summer School Francesco Turco.
- 2020 Butturi, M. A., Sellitto, M. A., Lolli, F., Balugani, E., & Neri, A. (2020). *A model for renewable energy symbiosis networks in eco-industrial parks*. **IFAC-PapersOnLine**, 53(2), 13137–13142. <https://doi.org/10.1016/j.ifacol.2020.12.2504>

Partecipazione a Conferenze

- 2024 Speaker, XXIX AIDI Summer School - Francesco Turco
September, 11-13 — Otranto (Italy), "Blockchain-Based Carbon Emissions Tracking in Supply Chains: A Smart Contract Solution for Scope 3 Reporting" and "Renewable Energy Communities in Rural Areas: A Hybrid GIS-MCDM Approach for Agrivoltaic Systems Site Selection"
- 2024 Speaker, 18th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2024)
August, 28-30 — Vienna (Austria), "Distributed Ledger Technology Selection for Digital Battery Passport: A BWM-TOPSIS Approach"
- 2024 Speaker, Doctoral Workshop on "Advances in Manufacturing and Logistics management and control problems" (INCOM 2024)
August, 27 — Vienna (Austria), PhD Proposal: "Sustainable Battery Supply Chain and Resilient Energy Transition: From End-of-Life Electric Vehicle Batteries to Stationary Energy Storage Systems"

- 2024 Speaker, Advanced Topics in Production and Systems Engineering - International Immersion
June, 21 — São Leopoldo, Rio Grande do Sul (Brazil, Online), Seminar title: "Exploring Industry 5.0 for remanufacturing of lithium-ion batteries in electric vehicles"
- 2023 Speaker, VII International Workshop on Autonomous Remanufacturing
October, 18-19 — Caserta (Italy), "Exploring Industry 5.0 for remanufacturing of lithium-ion batteries in electric vehicles"
- 2023 Speaker, XXVIII AIDI Summer School - Francesco Turco
September, 06-08 — Genova (Italy), "Empowering rural districts with Urban-Industrial Symbiosis: A multi- objective model for Waste-to-Energy cogeneration and hydrogen sustainable networks"
- 2022 Speaker, XXVII Summer school - Francesco Turco
September, 07-09 — Sanremo (Italy), "Empowering rural districts with Urban-Industrial Symbiosis: A multi-objective model for Waste-to-Energy cogeneration and hydrogen sustainable networks"

Premi e Riconoscimenti

- 2025 ISA Doctoral Prize II Edition 20232024 (Institute of Advanced Studies, University of Bologna)
Research project: "Sustainable Energy Transition: Leveraging End-of-Life Electric Vehicle Batteries for Stationary Storage Systems".
- 2024 Best Paper DIN (Department of Industrial Engineering, University of Bologna)
Paper title: "Inter-firm exchanges, distributed renewable energy generation, and battery energy storage system integration via microgrids for energy symbiosis".
- 2023 Best Paper Award (XXVIII AIDI Summer School "Francesco Turco", Genova, Italy)
Paper Title: "Empowering rural districts with Urban- Industrial Symbiosis: A multi-objective model for Waste-to-Energy cogeneration and hydrogen sustainable networks"
- 2019 University Management Competition 2018/2019 (CESOP HR Consulting Group)
Rome (Italy), 08/05/2019