
CURRICULUM VITAE

Francesco Simone, PhD Student

RESEARCH ACTIVITIES

- 11/2021 - Today **PhD Student** in Industrial and Management Engineering, at Sapienza University of Rome, Faculty of Civil and Industrial Engineering, Department of Mechanical and Aerospace Engineering.
- 07/2021 - 09/2021 **Research Assistant**, at Sapienza University of Rome, Faculty of Civil and Industrial Engineering, Department of Mechanical and Aerospace Engineering.

EDUCATION

- 2018 - 2020 **MSc in Mechanical Engineering – Industrial Production** (110/110) at Sapienza University of Rome (Italy).
- 2014 - 2017 **BSc in Mechanical Engineering** (92/110) at Sapienza University of Rome (Italy).

TEACHING ACTIVITIES

- 11/2021 - Today **Teaching assistant** at Sapienza University of Rome (Italy), for “Operations Management” and “Industrial Plants” at Faculty of Civil and Industrial Engineering respectively MSc in Mechanical Engineering and BSc in Mechanical Engineering and for the BSc and MSc in Management Engineering; for “Quality Management” and “Industrial Plants” at Faculty of Civil and Industrial Engineering respectively MSc in Mechanical Engineering and MSc in Management Engineering;

PUBLICATIONS

*International journals (1)**

1. Patriarca R., **Simone F.**, Di Gravio G. (2022), *Modelling cyber resilience in a water treatment and distribution system*, Reliability Engineering and System Safety.
2. Patriarca R., **Simone F.**, Di Gravio G. (2022), *Supporting aerodrome weather forecasting through anomaly detection and hierarchical clustering*, Expert Systems with Applications.

*Additionally, the following manuscripts are currently under review:

Simone F., Nakhla Akel A. J., Di Gravio G., Patriarca R. (2022), *Thinking in systems, sifting through simulations: a way ahead for cyber resilience assessment*, IEEE Access. (Under review)

Simone F., Ansaldo S.M., Agnello P., Patriarca R. (2022), *Industrial safety management in the digital era: constructing a Knowledge Graph from near misses*, Computers in Industry. (Under review)

*International conference proceedings (3)**

1. **Simone F.**, Di Gravio G., Patriarca R. (2022). *Performance-based analysis of aerodrome weather forecasts*, Proceedings of New Trends in Civil Aviation 2022, 26-27 October 2022, CIIRC CTU in Prague (Czech Republic).

2. **Simone F.**, Nakhal Akel A. J., Patriarca R. (2022). *Investigating inventory data to support warehouse management through Machine Learning*, Proceedings of XXVII Summer School "Francesco Turco": "Unconventional Plants: Technologies, tools and Methodologies for emerging domains", 7-9 September 2022, Riviera dei Fiori (Italy).
3. **Simone F.**, Patriarca R. (2022). *A simulation-driven cyber resilience assessment for water treatment plants*, Proceedings of 30th European Safety and Reliability Conference (ESREL 2022). To be held: 28 August - 1 September 2022, Dublin (Ireland).
4. **Simone F.**, (2021). *A Model-Based Assessment of Cyber-Resilience Evaluation for Water Purification Plants with Societal Impact*, Keynote for Poster Competition at 4th European Conference on Industrial Engineering and Operations Management (IEOM 2021). 2-5 August 2021, Rome (Italy) online.
5. **Simone F.**, (2021). *An Integrated Simulation Model for Water Purification and Distribution*. Keynote for Simulation Competition at 4th European Conference on Industrial Engineering and Operations Management (IEOM 2021). 2-5 August 2021, Rome (Italy) online.

*Additionally, the following manuscripts are currently under review:

Simone F., Di Gravio G., Patriarca R., Bortolini M., Galizia F.G., Gamberi M., (2022). *Managing industrial automation: How knowledge graphs can boost production*, Proceedings of CARV-MCPC 2023, Bologna (Italy). (Under review)

Simone F., Cilli C., Di Gravio G., Patriarca R., *A data-driven cyber resilience assessment for industrial plants*, Proceedings of WorldCist'23 - 11st World Conference on Information Systems and Technologies, Pisa (Italy). (Under review)

RESEARCH AWARDS

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| 2022 | IEOM Outstanding Student Leadership Award. Awarded by the Industrial Engineering and Operations Management Society during the 5 th IEOM European Conference, 26-28 July 2022 – Rome (Italy). |
| 2021 | Winner of ESRA (European Safety and Reliability Association) scholarship for the continuing education course on "Advanced Quantitative Risk and Resilience Assessment" organized by the Department of Energy – Politecnico di Milano. (12 October - 18 November 2021). |
| 2021 | IEOM Outstanding Student Leadership Award. Awarded by the Industrial Engineering and Operations Management Society during the 4 th IEOM European Conference, 2-5 August 2021 – Rome (Italy). |
| 2021 | IEOM Poster Competition Award (2nd place). Awarded by the Industrial Engineering and Operations Management Society during the 4 th IEOM European Conference, 2-5 August 2021 – Rome (Italy). |
| 2021 | IEOM Simulation Competition Award (2nd place). Awarded by the Industrial Engineering and Operations Management Society during the 4 th IEOM European Conference, 2-5 August 2021 – Rome (Italy). |

REVIEWER

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| 2022 | IEOM – 5 th European Conference on Industrial Engineering & Operations Management. |
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LANGUAGES

Italian: mother tongue

English: B2

Rome, 10 June 2022