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# CURRICULUM VITAE

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## Riccardo Patriarca, PhD

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### RESEARCH ACTIVITIES

- 03/2018-today **PostDoc Researcher** at Sapienza University of Rome, Faculty of Civil and Industrial Engineering, Department of Mechanical and Aerospace Engineering.
- 01/2018-04/2018 **PhD Intern** at EUROCONTROL, Brussels (Belgium), NMD/NOM/SAF (Safety Unit).
- 06/2014-02/2018 **Research Assistant** at Sapienza University of Rome, Faculty of Civil and Industrial Engineering, Department of Mechanical and Aerospace Engineering.

### PROFESSIONAL QUALIFICATIONS AND ASSOCIATION

- since 2019 **Innovation Manager** of miSE – Italian Ministry of Economic Development
- since 2019 **Advisory Board** of the **Lifeboat Foundation**, Member of the Complex Systems, Engineering and Space Settlement Boards
- since 2018 **National Scientific Qualification as Associate Professor** in the scientific field: Industrial Systems Engineering (Impianti Industriali Meccanici, ING/IND 17).
- 2017 **Six Sigma Green Belt** Certification – Sapienza University of Rome
- 2016-2019 **Member of BIS-Italy** (British Interplanetary Society)
- since 2014 **Member of AIDI**– Italian Associations of Operations Management Professors (Junior Member)

### EDUCATION

- 2017 **PhD (Doctor Europaeus) in “Industrial and Management Engineering”** at Sapienza University of Rome (Italy) - Department of Mechanical and Aerospace Engineering in collaboration with Lund University (Sweden) - Division of Risk Management and Societal Safety. Thesis: “Developing risk and safety management methods for complex socio-technical systems: From Newtonian reasoning to Resilience Engineering”.
- 2016 **Visiting PhD Student Research** at Lund University (Sweden) – Division of Risk Management and Societal Safety.
- 2014 **MSc in Aeronautical Engineering** at Sapienza University of Rome (Italy).
- 2011 **BSc in Aerospace Engineering** at Sapienza University of Rome (Italy).

### TEACHING ACTIVITIES

- 02/2019-today **Adjunct Professor**  
*Sapienza University of Rome (Italy), Faculty of Civil and Industrial Engineering*  
(a.a. 2020-2021): “Operations Management” for the MSc in Mechanical Engineering (in English). (6ECTS)  
(a.a. 2019-2020): “Operations Management” for the MSc in Mechanical Engineering (in English). (6ECTS)  
(a.a. 2018-2019): “Industrial Plants” for the BSc in Mechanical Engineering. (3ECTS)
- Universitas Mercatorum (Italy)*  
(a.a. 2020-2021): “Risk Management in infrastructures and production systems” for the MSc in Management Engineering. (9ECTS)
- 11/2014-today **Tutor and Assistant Lecturer**  
*Sapienza University of Rome (Italy), Faculty of Civil and Industrial Engineering and Faculty of Information Engineering, Informatics, and Statistics.*  
(a.a. 2014 - 2017): “Operations Management”; “Quality Management”; “Industrial plants” for the MSc and BSc in Mechanical Engineering, and for the BSc and MSc in Management Engineering.

## **PUBLICATIONS**

SCOPUS (updated 16 August 2021)

h-index: 16

Documents: 70

Total citations: 794

GOOGLE SCHOLAR (updated 16 August 2021)

h-index: 17

I10-index: 27

Total citations: 1082

### *Editorial Board*

since 2021	Human Factors in Healthcare (Elsevier)
since 2020	Safety Science (Elsevier)
since 2020	Reliability Engineering & System Safety (Elsevier)
since 2020	Academic of Strategic Management Journal (Allied Strategy), Co-Editor in Chief
since 2020	WUT Journal of Transport Engineering (Warsaw University of Technology)
since 2018	Cogent Engineering (Taylor & Francis), Editor
2017-2019	Journal of Safety Studies (MacroThink)

### *Guest Editor*

2021	Guest Editor - Journal of Loss Prevention in the Process Industry (Elsevier) for the Special Issue: Harmonising Occupational and Process Safety: a myth or a good safety management practice?
2020-2021	Guest Editor - Safety Science (Elsevier) for the Special Issue: Meta-learning peculiarities and approaches for facing safety issues and enhancing risk management process
2020-2021	Guest Editor - Infrastructures (MDPI), for the Special Issue: Infrastructure Resilience in Emergency Situations
2019-2020	Guest Editor - Sustainability (MDPI), for the Special Issue: Inventory Management for Sustainable Industrial Operations
2018-2019	Guest Editor - Complexity (Hindawi), for the Special Issue: Modelling and Quantification of Resilience in Complex Engineering Systems
2018-2019	Guest Editor - Sustainability (MDPI), for the Special Issue: Resilience Engineering for Sustainability: Methodological Approaches and Practical Experience

### *Scientific Board/Committee member*

2021	4 <sup>th</sup> European International Conference on Industrial Engineering and Operations Management (IEOM)
2021	9 <sup>th</sup> Resilience Engineering Association (REA) Symposium, Member of the Organizing Committee– Toulouse (France)
2020	2020 NTCA International Conference (New Trends in Civil Aviation) – Prague (Czech Republic)
2020	17 <sup>th</sup> International Conference on Information Systems for Crisis Response and Management (ISCRAM 2020); Track on “AI Systems for Crisis and Risks” - Blacksburg (Virginia, USA)
2019-2021	9 <sup>th</sup> Resilience Engineering Association (REA) Symposium, Young Talent Committee Co-Chair – Toulouse (France)
2019	16 <sup>th</sup> International Conference on Information Systems for Crisis Response and Management (ISCRAM 2019); Track on “Knowledge, Semantics, and AI for risk and crisis management” - Valencia (Spain)
2018	Interoperability for Crisis Management: Increasing Resilience of Smart Cities (ICRIM 2018) - Berlin (Germany)
2017-2019	8 <sup>th</sup> Resilience Engineering Association (REA) Symposium, Young Talent Committee Member - Kalmar (Sweden)
2017	19 <sup>th</sup> NTCA International Conference (New Trends in Civil Aviation) - Prague (Czech Republic)
2017	11 <sup>th</sup> FRAMily meeting & workshop - Rome (Italy)

### *International journals (55)*

1. Nakhla A.J.A., **Patriarca R.**, Di Gravio G., Antonioni G., Paltrinieri N. (2021). *Investigating occupational and operational industrial safety data through Business Intelligence and Machine Learning*, Journal of Loss Prevention in the Process Industries, vol.73, paper 104609. doi: 10.1016/j.jlp.2021.104608.
2. Nakhla A.J.A., **Patriarca R.**, Di Gravio G., Antonioni G., Paltrinieri N. (2021). *Business intelligence for the analysis of industrial accidents based on MHIDAS database*, Chemical Engineering Transactions, vol.86, pp.229-234. doi: 10.3303/CET2186039.
3. Colabianchi S., Costantino F., Di Gravio G., Nonino F., **Patriarca R.** (2021). *Discussing resilience in the context of cyber physical systems*, Computers & Industrial Engineering, vol.160, pp.1-18, paper 107534. doi: 10.1016/j.cie.2021.107534
4. Steen R., Ingvaldsen G., **Patriarca R.**, (2021). *Engineering resilience in a prison's performance management system*, Safety Science, vol. 142, paper 105367. doi: 10.1016/j.ssci.2021.105367.
5. Steen R., **Patriarca R.**, Di Gravio G., (2021). *The chimera of time: Exploring the functional properties of an emergency response in action*, Journal of Contingencies and Crisis Management, in press. doi: 10.1111/1468-5973.12353.
6. Annarelli A., Battistella C., Costantino F., Di Gravio G., Nonino F., Patriarca R., (2021). *New trends in product service system and servitization research: A conceptual structure emerging from three decades of literature*, CIRP Journal of Manufacturing Science and Technology, vol. 32, pp. 424-436. doi: 10.1016/j.cirpj.2021.01.010.
7. **Patriarca R.**, De Paolis A., Costantino F., Di Gravio G., (2021). *Simulation model for simple yet robust resilience assessment metrics for engineered systems*, Reliability Engineering & System Safety, vol. 209, paper 107467. doi: 10.1016/j.res.2021.107467.
8. Bernabei G., Costantino F., Palagi L., **Patriarca R.**, Romito F., (2021). *An integer black-box optimization model for repairable spare parts management*. International Journal of Information Systems and Supply Chain Management, vol. 14 (2), pp. 46-68. doi: 10.4018/IJISSCM.2021040103.

9. Becker Bertoni V., Saurin T.A., Fogliatto F. S., Falegnami A., **Patriarca R.**, (2021) *Monitor, anticipate, respond, and learn: Developing and interpreting a multilayer social network of resilience abilities*, Safety Science, vol.136, paper 105148, doi: 10.1016/j.ssci.2020.105148.
10. **Patriarca R.**, Falegnami F., Costantino F., Di Gravio G., De Nicola A., Villani M.L., (2021) *WAX: an integrated conceptual framework for the analysis of Cyber-Socio-Technical Systems*, Safety Science, vol. 136, paper 105142. doi: 10.1016/j.ssci.2020.105142
11. Cantelmi R., Di Gravio G., **Patriarca R.**, (2021) *Reviewing qualitative research approaches in the context of Critical Infrastructure resilience*, Environment Systems and Decisions, in press. doi: 10.1007/s10669-020-09795-8.
12. Falegnami A., **Patriarca R.**, Costantino F., Di Gravio G., Bilotta F., (2021) *Surveying work-as-done in post-operative delirium risk factors collection and diagnosis monitoring*, Applied Ergonomics, vol.92, pp.1-15, paper 103347. doi: 10.1007/s10111-019-00612-0.
13. Paltrinieri N., **Patriarca R.**, Stefana E., Brocal F., Reniers G., (2020) *Meta-learning for Safety Management*, Chemical Engineering Transactions, vol.82, pp. 169-174. doi: 10.3303/CET2082029
14. **Patriarca R.**, Di Gravio G., Costantino F., Tronci T., (2020) *EOQ inventory model for perishable products under uncertainty*, Production Engineering, vol.14(5-6), pp. 601-612. doi: 10.1007/s11740-020-00986-5.
15. Falegnami A., Costantino C., Di Gravio G., **Patriarca R.**, (2020) *Unveil key functions in socio-technical systems: Mapping FRAM into a multilayer network*, Cognition, Technology & Work, vol.22, pp.877-899. doi: 10.1007/s10111-019-00612-0
16. Shaban A., Shalaby A.M., Di Gravio G., **Patriarca R.**, (2020) *Analysis of Variance Amplification and Service Level in a Supply Chain with Correlated Demand*, Sustainability, vol.12(16), 6470, pp.1-27. doi: 10.3390/su12166470.
17. Cantelmi, R., Di Gravio, G., **Patriarca, R.**, (2020). *Learning from Incidents: A Supply Chain Management Perspective in Military Environments*, Sustainability, vol. 12, 5750, pp.1-19. doi: 10.3390/su12145750.
18. **Patriarca, R.**, Ramos, M., Paltrinieri, N., Massaiu, S., Costantino, F., Di Gravio, G., Boring, R.L., (2020). *Human Reliability Analysis: exploring the intellectual structure of a research field*, Reliability Engineering and System Safety, vol.203, pp.1-27, paper 107102. doi: 10.1016/j.res.2020.107102.
19. Quatrini E., Costantino F., Di Gravio G., **Patriarca R.**, (2020). *Condition-based maintenance: an extensive literature review*, Machines, vol.8 (2), pp.1-28. doi: 10.3390/MACHINES8020031.
20. Quatrini E., Costantino F., Di Gravio G., **Patriarca R.**, (2020). *Machine learning for anomaly detection and process phase classification to improve safety and maintenance activities*, Journal of Manufacturing Systems, vol.56, pp.117-132. doi: 10.1016/j.jmsy.2020.05.013.
21. **Patriarca R.**, Di Gravio G., Woltjer R., Costantino F., Praetorius G., Ferreira P., Hollnagel E., (2020). *Framing the FRAM: a literature review on the functional resonance analysis method*, Safety Science, vol.129, pp.1-23, paper 104827. doi: 10.1016/j.ssci.2020.104827.
22. Saurin T.A., **Patriarca R.**, (2020). *A taxonomy of interactions in socio-technical systems: A functional perspective*, Applied Ergonomics, vol. 82., paper 102980. doi: 10.1016/j.apergo.2019.102980.
23. **Patriarca R.**, Hosseini S., (2019). *Modeling and quantification of resilience in complex engineering systems*, Complexity, number 1038908. ISSN: 1076-2787. doi: 10.1155/2019/1038908.
24. **Patriarca R.**, Di Gravio G., Costantino F., (2019). *About resilience of modern societies*, Economy and Management: Problems, Solutions (Ekonomika I Upravljenje: Problemy, Resheniya), vol. 10 (4), page 97-103, UDK 330.332.21. ISSN: 2227-389.
25. Falegnami A., Costantino C., Di Gravio G., **Patriarca R.**, (2019). *Unveil key functions in socio-technical systems: Mapping FRAM into a multilayer network*, Cognition, Technology & Work, in press. doi: 10.1007/s10111-019-00612-0.
26. **Patriarca R.**, Hu T., Costantino F., Di Gravio G., Tronci M., (2019). *A System-Approach for Recoverable Spare Parts Management Using the Discrete Weibull Distribution*, Sustainability, vol.11, 5180, pp.1-15.
27. Adriaensens A., **Patriarca R.**, Smoker A., Bergstrom J., (2019). *A socio-technical analysis of functional properties in a joint cognitive system. A case study in an aircraft cockpit*, ISS: 0014-0139 (in press). doi: 10.1080/00140139.2019.1661527.
28. **Patriarca R.**, Di Gravio G., Costantino F., 2019. *Risk, safety, reliability and satellites: Chronicles of a fragmented research field*. Journal of Space Safety Engineering, ISSN 2468-8967, vol.6(3), pp.201-211. doi: 10.1016/j.jsse.2019.08.002.
29. **Patriarca R.**, Di Gravio G., Costantino F., Fedele L., Tronci M., Bianchi V., Caroletti F., Bilotta F., 2019. *Systemic safety management in anesthesiological practices*, Safety Science, Volume 118, Pages 551-567, ISSN 0925-7535, <https://doi.org/10.1016/j.ssci.2019.08.021>.
30. **Patriarca R.**, Di Gravio G., Cioponea R., Licu A., (2019). *Safety intelligence: Incremental proactive risk management for holistic aviation safety performance*. Safety Science, Volume 118, Pages 551-567, ISSN 0925-7535, <https://doi.org/10.1016/j.ssci.2019.05.040>.
31. **Patriarca R.**, Falegnami A., De Nicola A., Villani M.L., Paltrinieri N., (2019). *Serious games for industrial safety: An approach for developing resilience early warning indicators*. Safety Science, Volume 118, Pages 316-331, ISSN 0925-7535, <https://doi.org/10.1016/j.ssci.2019.05.031>.
32. **Patriarca R.**, Falegnami A., Bilotta F., (2018). *Embracing simplicity: the role of artificial intelligence in peri-procedural medical safety*. Expert Review of Medical Devices, ISSN 1743-4440, vol. 16 (2), pp. 77-79, doi: 10.1080/17434440.2019.1561269.
33. Menchinelli A., Ingiosi F., Pamphili L., Marzioli P., **Patriarca R.**, Costantino F., Piergentili F., (2018). *A reliability engineering approach for managing risks in CubeSats*. Aerospace, ISSN 2226-4310, vol. 5 (4), pp. 1-24, doi: 10.3390/aerospace5040121.
34. Falegnami A., Bilotta F., Pugliese, F., Costantino F., Di Gravio, G., Tronci, M., **Patriarca R.**, (2018). *A multi-country comparative survey about organizational resilience in anesthesia*. Journal of Evaluation in Clinical Practice, ISSN 0951-8320, vol. 24 (6), pp. 1347-1357, doi: 10.1111/jep.13054.

35. **Patriarca R.**, Falegnami A., Costantino F., Bilotta F., (2018). *Resilience Engineering for socio-technical risk analysis: application in neuro-surgery*. Reliability Engineering & System Safety, ISSN 0951-8320, vol. 180, pp. 321-335. doi: 10.1016/j.res.2018.08.001.
36. **Patriarca R.**, Falegnami A., Di Gravio G., Costantino F., Bilotta F., (2018). *An analytic framework to assess organisational resilience*. Safety and Health at Work, ISSN: 2093-7911, vol. 9(3), pp. 265-276. doi: 10.1016/j.shaw.2017.10.005.
37. **Patriarca R.**, Bergström J., Di Gravio G., Costantino F., (2018). *Resilience Engineering: current results and future challenges*. Safety Science, ISSN 0925-7535, vol. 102, pp. 79-100. doi: 10.1016/j.ssci.2017.10.005.
38. Costantino, F., Di Gravio, G., **Patriarca R.**, Petrella L. (2018). *Spare parts management for irregular demand items*. OMEGA: The management science journal, ISSN 0305-0483, vol. 81, pp. 57-66. doi: 10.1016/j.omega.2017.09.009.
39. **Patriarca R.**, Del Pinto G., Di Gravio G., Costantino F., (2018). *FRAM for systemic accident analysis: a matrix representation of functional resonance*. International Journal of Reliability, Quality and Safety Engineering, ISSN 1793-6466. doi: 10.1142/S0218539318500018.
40. **Patriarca R.**, Di Gravio G., Costantino F., Tronci M., Severoni A., Vernile A., Bilotta F. (2017). *A paradigm shift to enhance patient safety in health care, a Resilience Engineering approach: scoping review of available evidence*. International Journal of Healthcare Technology and Management, ISSN 1741-5144, vol. 16 (3-4), pp. 319-343. doi: 10.1504/IJHTM.2017.088872.
41. **Patriarca R.**, Bergström J., (2017). *Modelling complexity in everyday operations: Functional resonance in maritime mooring at quay*. Cognition, Technology & Work, ISSN 1435-5566, vol. 19 (4), pp. 711-729. doi: 10.1007/s10111-017-0426-2.
42. **Patriarca R.**, Bergström J., Di Gravio G., (2017). *Corrigendum to "Defining the Functional Resonance Analysis space: combining Abstraction Hierarchy and FRAM"*. Reliability Engineering and System Safety, ISSN 0951-8320, vol. 167, pp. 612. doi: 10.1016/j.res.2017.08.015.
43. **Patriarca R.**, Bergström J., Di Gravio G., (2017). *Defining the functional resonance analysis space: Combining Abstraction Hierarchy and FRAM*. Reliability Engineering and System Safety, ISSN 0951-8320, vol. 165, pp. 34-46. doi: 10.1016/j.res.2017.03.032.
44. **Patriarca R.**, Di Gravio G., Costantino F., (2017). *Resilience Engineering to assess risks for the Air Traffic Management system: a new systemic method*. International Journal of Reliability and Safety, vol. 16 (4), pp. 323-345, doi: 10.1504/IJRS.2016.10005344.
45. **Patriarca R.**, Di Gravio G., Costantino F., (2017). *A Monte Carlo evolution of the Functional Resonance Analysis Method (FRAM) to assess performance variability in complex systems*. Safety Science, ISSN 0925-7535, vol. 91, pp. 49-60. doi: 10.1016/j.ssci.2016.07.016.
46. **Patriarca R.**, Costantino F., Di Gravio G., & Tronci M., (2017). *The Functional Resonance Analysis Method for a systemic risk based environmental auditing in a sinter plant: A semi-quantitative approach*. Environmental Impact Assessment Review, ISSN 0195-9255, vol. 63, pp. 72-86. doi: 10.1016/j.eiar.2016.12.002.
47. Di Gravio G., **Patriarca R.**, Costantino F., Sikora I., (2017). *Safety assessment for an ATM system change: a methodology for the ANSPs*. PROMET - Traffic & Transportation, ISSN 1848-4069, vol. 29 (1), pp. 99-107. doi: http://dx.doi.org/10.7307/ptt.v29i1.2121.
48. **Patriarca R.**, Di Gravio G., Mancini M., Costantino F., (2016). *Change management in the ATM system: integrating information in the Preliminary System Safety Assessment*. International Journal of Applied Decision Sciences, ISSN 1755-8085, vol. 9 (2), pp. 121-138. doi: 10.1504/IJADS.2016.10000985.
49. **Patriarca R.**, Costantino F., Di Gravio G., (2016). *Inventory model for a multi-echelon system with unidirectional lateral transshipment*. Expert Systems with Applications, ISSN 0957-4174, vol. 65, pp. 372-382. doi:10.1016/j.eswa.2016.09.001.
50. Costantino F., Di Gravio G., Nonino F., **Patriarca R.**, (2016). *Evolution of the intellectual structure of research on pricing strategy of low cost carriers*. Research in Transportation Business and Management, ISSN 2210-5395, vol. 21, pp.9 9-116. doi:10.1016/j.rtbm.2016.07.005.
51. **Patriarca R.**, Costantino F., Di Gravio G., Tronci M., (2016). *Inventory optimization for a customer airline in a performance based contract*. Journal of Air Transport Management, ISSN 0969-6997, vol. 57, pp. 206-216. doi:10.1016/j.jairtraman.2016.08.005.
52. **Patriarca R.**, Di Gravio G., Costantino F., (2016). *Assessing performance variability of ground handlers to comply with airport quality standards*. Journal of Air Transport Management, ISSN 0969-6997, vol. 57, pp. 1-6, doi: 10.1016/j.jairtraman.2016.06.009.
53. Di Gravio G., **Patriarca R.**, Mancini M., Costantino F., (2016). *Overall safety performance of the Air Traffic Management system: The Italian ANSP's experience on APF*. Research in Transportation Business and Management, ISSN 2210-5395, vol. 20, pp. 3-12, doi:10.1016/j.rtbm.2016.03.001.
54. Di Gravio G., Mancini M., **Patriarca R.**, Costantino F., (2015). *Overall safety performance of the Air Traffic Management system: indicators and analysis*. Journal of Air Transport Management, ISSN 0969-6997, vol. 44-45, pp. 65-69, doi: 10.1016/j.jairtraman.2015.02.005.
55. Di Gravio G., Mancini M., **Patriarca R.**, Costantino F., (2015). *Overall safety performance of Air Traffic Management system: forecasting and monitoring*. Safety Science, ISSN 0925-7535, vol. 72, pp. 351-362, doi: 10.1016/j.ssci.2014.10.003.

*International conference proceedings (42)*

1. Gamal M., Donkol A., Shaban A., Costantino F., Di Gravio G., **Patriarca R.** (2021). *Anomalies Detection in Smart Manufacturing Using Machine Learning and Deep Learning Algorithms*, atti del 4th European Conference on Industrial Engineering and Operations Management (IEOM 2021). 2-5 August 2021, Rome (Italy).

2. De Souza I., Haddad A., **Patriarca R.** (2021). *Uncovering resilience abilities in maintenance teams for buildings with Functional Resonance Analysis Method*, 15th Naturalistic Decision Making and 9th Resilience Engineering Symposium (REA 2021) – extended abstract. 24-26 June 2021, Toulouse (France).
3. Adriaensen A., Pintelon L., **Patriarca R.**, (2021). Interdependency Analysis for collaborative robot applications through FRAM analysis, 15th Naturalistic Decision Making and 9th Resilience Engineering Symposium (REA 2021) – extended abstract. 24-26 June 2021, Toulouse (France).
4. **Patriarca R.**, Falegnami A., Costantino F., Di Gravio G., De Nicola A., Villani M.L. (2021). *WAX on, WAX off: understanding the dynamics of cyber-socio-technical systems*, 15th Naturalistic Decision Making and 9th Resilience Engineering Symposium (REA 2021) – extended abstract. 24-26 June 2021, Toulouse (France).
5. Adriaensen A., Pintelon L., Costantin, F., Di Gravi, G., **Patriarca, R.** (2021). *An STPA Safety Analysis Case Study of a Collaborative Robot Application*, Proceedings of the 17th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2021). 7-9 June 2021, Budapest (Hungary).
6. Sujan M., Watt J., **Patriarca R.**, Costantino F., Villani M.L., De Nicola A. (2021). *Developing safety indicators for industrial processes using the Functional Resonance Analysis Method*, Proceedings of online Safety Critical Systems Symposium. 9-11 February 2021 (online).
7. Costantino F., De Nicola A., Di Gravio G., Falegnami A., **Patriarca R.**, Tronci M., Vicoli G., Villani M.L. (2020). *Towards a Framework for Definition of Enterprise Safety Indicators*, Proceedings of the 10th International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2020 – ICRIM Workshop). 17-20 November 2020, Tarbes (France).
8. Costantino F., De Nicola A., Di Gravio G., Falegnami A., **Patriarca R.**, Tronci M., Vicoli G., Villani M.L. (2020). *Transition from Work-As-Imagined to Work-As-Done Processes through Semantics: an Application to Industrial Resilience Analysis*, Proceedings of 10th International Conference on Interoperability for Enterprise Systems and Applications (IESA 2020). 17-20 November 2020, Tarbes (France).
9. Costantino F., De Nicola A., Di Gravio G., Falegnami A., **Patriarca R.**, Tronci M., Vicoli G., Villani M.L. (2020). *Crowd sensitive indicators for proactive safety management: a theoretical framework*, Proceedings of 30th European Safety and Reliability Conference (ESREL 2020). 1-5 November 2020, Venezia (Italy).
10. Paltrinieri N., **Patriarca R.**, Pacevicius M., Rossi P.S. (2020). *Lessons from past hazardous events: data analytics for severity prediction*, Proceedings of 30th European Safety and Reliability Conference (ESREL 2020). 1-5 November 2020, Venezia (Italy).
11. **Patriarca R.**, Di Gravio G., Fantini C., Volpini R., Mancini M., (2020). *Holistic data intelligence systems for ANSPs*, Proceedings of FABEC Online Research Workshops 2020 “Interdependencies with ATM performance in the context of a dynamic environment”. 21-23 October 2020 (online).
12. De Nicola A., Villani M.L., Costantino F., Falegnami A., **Patriarca R.**, (2020). *Drivers of knowledge conversion in socio-technical systems*, Proceedings of the 6<sup>th</sup> International Workshop on Socio-Technical Perspectives in IS Development (STPIS 2020). 8-9 June 2020, Grenoble (France) (online).
13. **Patriarca R.**, Di Gravio G., Costantino F., (2019). *About resilience of modern societies*, 13<sup>th</sup> International Scientific Conference “Humanitarian economic and management aspects of modern government and business structures. 1-3 December 2019, Domodedovo Moscow (Russia). (manuscript selected for publication in *Economy and Management: Problems, Solutions - Ekonomika I Upravlenie: Problemy, Resheniya*)
14. Hosseinnia B., Khakzad N., **Patriarca R.**, Paltrinieri N., (2019). *Modeling Risk Influencing Factors of Hydrocarbon Release Accidents in Maintenance Operations using FRAM*, Proceedings of 4th International Conference on System Reliability and Safety (ICSRS 2019), 20-22 November 2019, Rome (Italy).
15. Di Gravio G., Costantino F., Falegnami A., **Patriarca R.**, (2019). *Actionable safety analyses in socio-technical systems with myFRAM*, Proceedings of 4th International Conference on System Reliability and Safety (ICSRS 2019), 20-22 November 2019, Rome (Italy).
16. Di Gravio G., Venanzi L., Costantino F., **Patriarca R.**, Tronci M. (2019). *About Spare Parts Cannibalization for Rotable Items - a preliminary approach for inventory control*, Proceedings of 4th International Conference on System Reliability and Safety (ICSRS 2019), 20-22 November 2019, Rome (Italy).
17. Lališ A., **Patriarca R.**, Ahmad J., Di Gravio G., Kostov B., (2019). *Functional modeling in safety by means of foundational ontologies*, Proceedings of the 8th International Conference on Air Transport – INAIR 2019 Global Trends In Aviation, 12-13 November 2019, Budapest (Hungary).
18. Quatrini E., Costantino F., Di Gravio G., **Patriarca R.**, (2019). *Load forecast for onboard high-speed railway catering service using machine learning*, Proceedings of XXIV Summer School “Francesco Turco” Impianti Industriali Meccanici “Augmented Knowledge: A new era of industrial systems engineering”, 11-13 September 2019, Brescia (Italy).
19. **Patriarca R.**, Di Gravio G., Costantino F., Tronci M., (2019). *WHO? WHAT? WHERE? WHEN? A scientometric perspective on Resilience Engineering*. Proceedings of the 8th Resilience Engineering Association (REA) symposium. Kalmar (Sweden), 24-27 June 2019.
20. **Patriarca R.**, Adriaensen A., Peters M., Putnam J., Costantino F., Di Gravio G., (2019). *Receipt and dispatch of an aircraft. A functional risk analysis*. Proceedings of the 8th Resilience Engineering Association (REA) symposium. Kalmar (Sweden), 24-27 June 2019.
21. **Patriarca R.**, Di Gravio G., Costantino F., (2019). *myFRAM one year later: recap and agenda*, proceedings (abstract) of 13th FRAMily meeting & workshop, 27-29 May 2019, Malaga (Spain).
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5. **Patriarca R.**, (2018). *New trends for risk and safety management in the aviation domain: A resilience engineering perspective*. 19<sup>th</sup> international conference “New trends in civil aviation”, 7-8 December 2018, Prague (Czech Republic) – keynote speech.
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*Book chapters (1)*

1. **Patriarca R.**, (2021). *Resilience Engineering for socio-technical safety management*. In book: Multisystemic Resilience: Adaptation and Transformation in contexts of change, edited by Michael Ungar. Chapter 24, pp. 491-506.

**LANGUAGES**

Italian: mother tongue

English: C2

French: B1

Rome, 16<sup>th</sup> August 2021