

## CURRICULUM VITAE

**Riccardo Patriarca**

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### Titoli di studio

- 2017 **Dottorato di Ricerca in Ingegneria Industriale e Gestionale** presso l'Università di Roma "La Sapienza" conseguito il 19/12/2017, discutendo la tesi "Developing risk and safety management methods for complex socio-technical systems: From Newtonian reasoning to Resilience Engineering". Conseguito il titolo di **Doctor Europaeus**, a seguito delle attività di ricerca in ambito internazionale svolte presso Lund University – Division of Risk Management and Societal Safety (Svezia).
- 2014 **Laurea Magistrale in Ingegneria Aeronautica** presso l'Università degli Studi di Roma "La Sapienza" con votazione di 110/110, conseguita il 24/03/2014 discutendo la tesi sperimentale "Forecasting overall safety levels for the Air Traffic Management system"
- 2011 **Laurea Triennale in Ingegneria Aerospaziale** presso l'Università degli Studi di Roma "La Sapienza" conseguita il 19/07/2011 discutendo la tesi sperimentale "Studio di fattibilità per un UAV ad ala battente"

### Attività di Ricerca

- 2020-2021 **Assegnista di Ricerca - procedura selettiva pubblica "BE-FOR-ERC"**. Finanziamento per progetti di ricerca di eccellenza per i più promettenti ricercatori Sapienza incentivandoli a partecipare agli schemi di finanziamento ERC. Progetto finanziato, di cui Riccardo Patriarca è Principal Investigator. Argomento: "RESCUE – Resilience Engineering for Safety in Complex Unexpected Events" - 01.03.2020 – 28.02.2021.
- 2018-2020 **Assegnista di Ricerca** presso il Dipartimento di Ingegneria Meccanica e Aerospaziale (Università degli studi di Roma "La Sapienza") per il settore ING-IND/17. Argomento: "Risk management in complex socio-technical systems" - 01.03.2018 – 28.02.2020.
- 2017-2018 **Borsista di ricerca** (Borsa di studio per attività di ricerca "Sviluppo di un modello di resilience engineering basato su FRAM per applicazioni di interesse industriale in linea con il recente interesse di ricerca nella gestione del rischio per i sistemi socio-tecnici ivi compresa la sicurezza sul lavoro") presso il Dipartimento di Ingegneria Meccanica e Aerospaziale (Università degli studi di Roma "La Sapienza") - 18/12/2017 – 18/02/2018.

### Attività didattica

- A.A. 2019-2020 **Professore a contratto di Operations Management** (6CFU) presso la Facoltà di Ingegneria Civile e Industriale, per il Corso di Laurea Magistrale in Ingegneria Meccanica in lingua inglese, Università degli Studi di Roma "La Sapienza".
- A.A. 2018-2019 **Professore a contratto di Impianti Industriali** (3 di 9 CFU) presso la Facoltà di Ingegneria Civile e Industriale, per il Corso di Laurea in Ingegneria Meccanica, Università degli Studi di Roma "La Sapienza".
- A.A. 2017-2018 **Docente di Manutenibilità e Disponibilità** (2CFU) presso la Facoltà di Ingegneria Civile e Industriale (Dipartimento di Ingegneria dell'Informazione, Elettronica e Telecomunicazioni, Università degli Studi di Roma "La Sapienza") per il Master di Secondo Livello in "Servizi Logistici e di Comunicazione per Sistemi Complessi".
- A.A. 2017-2018 **Docente di Politiche della Manutenzione** (1CFU) presso la Facoltà di Ingegneria Civile e Industriale (Dipartimento di Ingegneria dell'Informazione, Elettronica e Telecomunicazioni, Università degli Studi di Roma "La Sapienza") per il Master di Secondo Livello in "Servizi Logistici e di Comunicazione per Sistemi Complessi".
- A.A. 2017-2020 **Docente di Risk Management in Complex Systems** (visiting professor all'interno del corso Risk Management in the Safety Area) presso Lund University (Division of Risk Management and Societal Safety) per MSc in Risk Management (equivalente a Laurea Magistrale, carico didattico equivalente 1 CFU).
- A.A. 2017-2018 **Docente di Risk Modelling for socio-technical systems** (visiting professor all'interno del corso Risk in the Safety Area) presso Lund University (Division of Risk Management and Societal Safety), workshop per il MSc in Human Factors and System Safety (equivalente a Laurea Magistrale, carico didattico equivalente 0.5 CFU).
- A.A. 2017-2018 **Docente di "Resilience Engineering: la sicurezza dei sistemi complessi"** presso l'Università degli studi di Roma "La Sapienza" (Facoltà di Medicina e Odontoiatria, Farmacia e Medicina, Ingegneria Civile e Industriale e Giurisprudenza), Master interfacoltà di Secondo Livello in "Gestione integrata di salute e sicurezza nell'evoluzione del mondo del lavoro" (carico didattico equivalente 0.3 CFU).

- A.A.16-17 – 18-19 **Docente di Gestione della Qualità** (2CFU) presso la Facoltà di Ingegneria Civile e Industriale (Dipartimento di Ingegneria dell'Informazione, Elettronica e Telecomunicazioni, Università degli Studi di Roma "La Sapienza") per il Master di Secondo Livello in "Servizi Logistici e di Comunicazione per Sistemi Complessi".
- dall'A.A. 2015/2016 **Docente di Gestione della manutenzione e dei ricambi (Supply Chain Management)** (3CFU) presso la Facoltà di Ingegneria Civile e Industriale (Dipartimento di Ingegneria dell'Informazione, Elettronica e Telecomunicazioni, Università degli Studi di Roma "La Sapienza") per il Master di Secondo Livello in "Servizi Logistici e di Comunicazione per Sistemi Complessi".

#### **Qualificazioni professionali, Abilitazioni e Principali Associazioni**

- 2019 **Innovation Manager** presso Il Ministero dello sviluppo economico (MISE) in coerenza con il Piano nazionale "Impresa 4.0", volto a sostenere i processi di trasformazione tecnologica e digitale delle PMI e delle reti di impresa sul territorio nazionale.
- dal 2019 **Membro** di REA – Resilience Engineering Association
- dal 2019 **Advisory Board** of the Lifeboat Fundation, Membro di Complex Systems, Engineering and Space Settlement Boards
- dal 2018 **Abilitazione scientifica nazionale** come professore di seconda fascia per il settore disciplinare ING-IND/17, settore concorsuale 09/B2 "Impianti Industriali Meccanici", conseguita il 24/07/2018 con validità fino al 24/07/2027.
- 2016 **Six Sigma Green Belt** Certification presso Sapienza Università di Roma
- dal 2017 **Membro** junior di AIDI – Associazione Italiana Docenti di Impianti

#### **Principali collaborazioni con enti di ricerca nazionali e internazionali**

##### *Accordi di ricerca a titolo non oneroso*

- *National University of Singapore (Singapore): Analisi di resilienza per laboratory di biohazard*
- *Universidad Nacional del Sur – CNEA (Argentina): Analisi di resilienza per reattori nucleari sperimentali*
- *EUROCONTROL (EU): Safety Intelligence su reportistica dati di sicurezza aerea operativa*
- *NIKE (Belgio): fattore umano per l'interazione uomo-macchina in un processo di picking in magazzino*

##### *Collaborazioni di ricerca internazionali stabili (testimoniate da pubblicazioni)*

- *Australia Macquarie University*
- *Belgio KU Leuven*
- *Belgio University of Antwerp*
- *Brasile Universidade Federal do Rio Grande do Sul*
- *Danimarca Danish Maritime Accident Investigation Board*
- *Egitto Fayoum University*
- *Egitto El-Cairo University*
- *Norvegia Institute for Energy Technology*
- *Norvegia Norwegian University of Science and Technology*
- *Norvegia University of South-Eastern Norway*
- *Norvegia Norwegian BI School – Campus of Stavanger*
- *Portogallo University of Lisbon*
- *Repubblica Ceca Czech Technical University of Prague*
- *Spagna University of Alicante*
- *Svezia Jönköping Academy*
- *Svezia Kalmar Maritime Academy, Linnaeus University*
- *Svezia Lund University*
- *Svezia Uppsala University*
- *UK Cardiff University*
- *UK London City University*
- *UK Middlesex University*
- *USA Idaho National Laboratory*
- *USA Purdue University*
- *USA University of California in Los Angeles UCLA*
- *USA University of Southern Mississippi*

##### *Collaborazioni di ricerca nazionali stabili (testimoniate da pubblicazioni)*

- *ENAV*
- *ENEA*
- *Policlinico Umberto Primo*

## **Pubblicazioni**

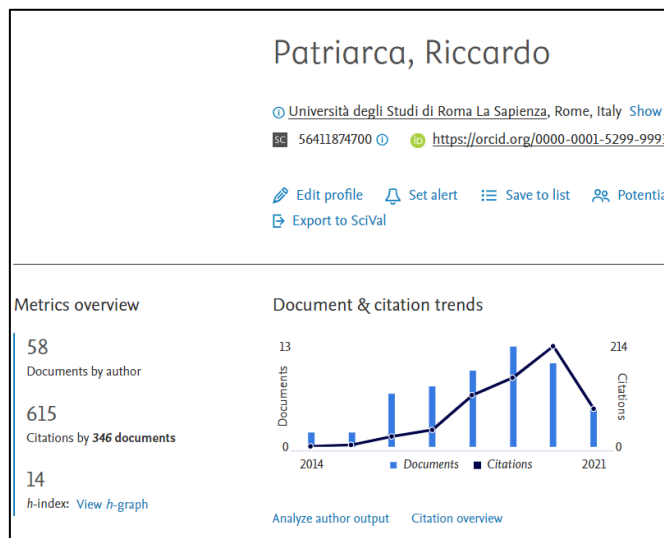
Il quadro di sintesi della produzione scientifica è riportato nei seguenti profili SCOPUS e GOOGLE SCHOLAR, alla data del 20/01/2021.

Profilo Scopus: (<https://www.scopus.com/authid/detail.uri?authorId=56411874700>)

Numero di Pubblicazioni: 58

Numero di Citazioni: 615

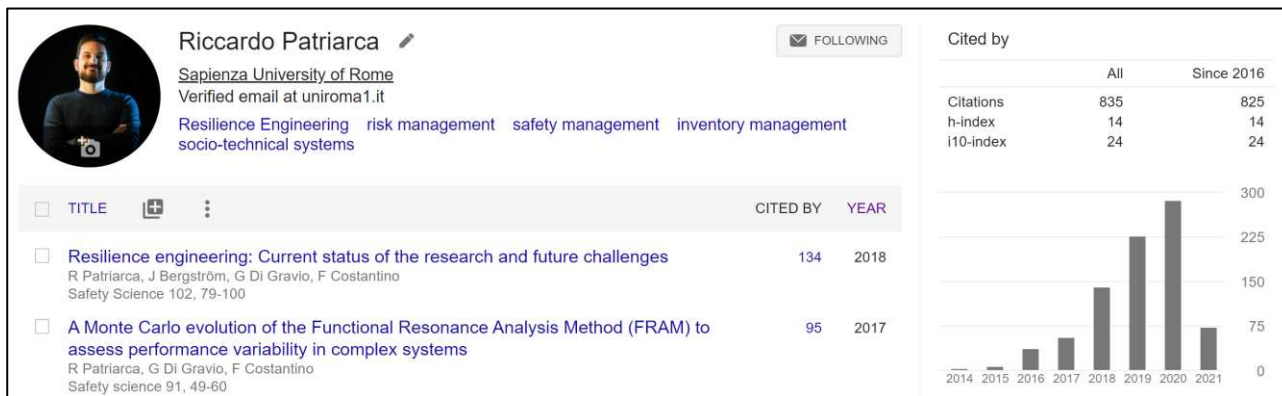
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Profilo Google Scholar (<https://scholar.google.it/citations?user=rPguw9UAAAAJ>)

Numero di Citazioni: 835

Indice h: 14



Di seguito il dettaglio delle pubblicazioni, differenziate per tipologia.

### *Riviste internazionali (50)*

1. Steen R., Di Gravio G., **Patriarca R.** (2021). *The chimera of time: exploring the functional properties of an emergency response room in action*, Journal of Contingencies and Crisis Management, early view.
2. 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.
3. Cantelmi R., Di Gravio G., **Patriarca R.** (2020). *Reviewing qualitative research approaches in the context of Critical Infrastructure resilience*, Environment Systems and Decisions, online first.
4. **Patriarca R.**, De Paolis A., Costantino F., Di Gravio G. (2021). *Simulation model for simple yet robust resilience assessment metrics in engineering systems*, Reliability Engineering and System Safety, vol.209, pp.1-10, paper 107467.
5. 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), article 4.

6. 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.
7. **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.
8. 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.
9. 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
10. **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.
11. 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.
12. 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.
13. 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.
14. **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.ress.2020.107102.
15. 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.
16. 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.
17. **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.
18. 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.
19. **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.
20. **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.
21. **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.
22. Adriaensen 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.
23. **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.
24. **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>.
25. **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>.
26. **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>.
27. **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.
28. 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.
29. 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.
30. **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.ress.2018.08.001.

31. **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.
32. **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.
33. 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.
34. **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.
35. **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.
36. **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.
37. **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.
38. **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.
39. **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.
40. **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.
41. **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.
42. 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>.
43. **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.
44. **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.
45. 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.
46. **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.
47. **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.
48. 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.
49. 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.
50. 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.

#### Atti di convegni internazionali (36)

1. 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). accepted for presentation
2. 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).

3. 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).
4. 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).
5. **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).
6. 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).
7. **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*)
8. 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).
9. 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).
10. 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).
11. 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).
12. 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).
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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. (in press)

#### Keynote Speeches e altro (7)

1. **Patriarca R.**, 2020. *Road to Resilience: Uncovering Hidden Functional Patterns in Aviation Safety Management*. Online International conference “New trends in civil aviation”, 23-24 November 2020, Prague (Czech Republic) (online).
2. **Patriarca R.**, 2019. *Risk management in complex systems*, Heroes meet in Maratea – Innovation, Future, Companies, Maratea (Italy), 20 September 2019.
3. **Patriarca R.**, 2019. *Safety Intelligence dashboards*. Safety & Security Conference, 20-21 November 2019, Prague (Czech Republic) – keynote speech.
4. **Patriarca R.**, 2018. *Failure is always an option: shifting from linear to complex analyses*. Safety & Security Conference, 21-22 November 2018, Prague (Czech Republic) – keynote speech.
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.
6. **Patriarca R.**, 2016. *Dynamic safety models for space safety*. Space Safety Magazine, 11 July 2016, online reference: <http://www.spacesafetymagazine.com/magazine/dynamic-models-enhance-space-safety/> - online magazine.
7. **Patriarca R.**, 2016. *Il punto di vista sulla safety: Safety-I vs Safety-II*. SAFEBULL ENAV S.p.A. Safety journal, Vol. 9/2015 (in Italian) - ENAV safety magazine.

Ulteriori attività relative nel contesto delle pubblicazioni consistono nelle partecipazioni in qualità di Reviewer, Scientific Board/Committee, Editorial Board/Committee a vari giornali e conferenze, come dettagliato di seguito.

#### Editorial Board

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| since 2020 | Safety Science (Elsevier)  |
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since 2020 WUT Journal of Transport Engineering (Warsaw University of Technology)  
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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?  
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*Scientific Board/Committee member*

2020 - 2021 9th 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 17th 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 9th Resilience Engineering Association (REA) Symposium, Young Talent Committee Co-Chair – Toulouse (France)  
2019 16th 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 8th 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 11th FRAMily meeting & workshop - Rome (Italy)

*Reviewer*

8 <sup>th</sup> Resilience Engineering Association (REA) Symposium – Kalmar (Sweden)	2019
Academy of Strategic Management Journal (Allied Journal)	since 2018
Aerospace (MDPI)	since 2018
AIAA Region Australia-Asia Student Conference – AIAA Sydney Section (AIAA)	since 2014
Applied Ergonomics (Elsevier)	since 2019
Applied Sciences (MDPI)	since 2020
CISAP 9 (International Conference on Safety & Environment in Process & Power Industry)	2020
Chemical Engineering Transactions (CET)	since 2020
Cogent Business & Management (Cogent OA)	since 2018
Cogent Engineering (Taylor & Francis)	since 2018
Cognition, Technology & Work (Springer)	since 2017
Computers & Industrial Engineering (Elsevier)	since 2018
CRC Press, reviewer of book proposals (Taylor & Francis)	since 2019
Electronics (MDPI)	since 2019
Energies (MDPI)	since 2018
Entropy (MDPI)	since 2018
Environment, Systems and Decisions (Springer)	since 2020
European Safety and Reliability Conference (ESREL) 2020	2020
Expert Systems With Applications (Elsevier)	since 2017
Frontiers Psychology (Frontiers)	since 2020
Information (MDPI)	since 2020
Infrastructures (MDPI)	since 2018
International Conference on System Sciences (HICSS) – 52nd edition	2021
Int. J. of Environmental Research and Public Health (MDPI)	since 2018
Int. J. of Environmental Science and Development (IJESD)	since 2020
Int. J. of Production Research (Taylor & Francis)	since 2016
Int. J. of Productions Economics (Elsevier)	since 2019
Int. J. of Supply Chain and Inventory Management (Inderscience)	since 2017
Inventions (MDPI)	since 2019
ISCRAM CoRe AI systems for Crisis and Risks (ISCRAM conference)	2020
J. of Advanced Research (Elsevier)	since 2020
J. of Aerospace Engineering and Mechanics (scholars.direct)	since 2020



J. of Aerospace Information Systems (AIAA)	since 2017
J. of Air Transport Management (Elsevier)	since 2018
J. of Computational Methods in Sciences and Engineering (IoS Press)	since 2019
J. of Contingencies and Crisis Management (Wiley)	since 2019
J. of Crisis and Contingencies Management (Wiley)	since 2020
J. of Industrial Engineering and Management (OmniaScience)	since 2017
J. of Loss Prevention in the process industries (Elsevier)	since 2019
J. of Residuals Science & Technology (DEStech publication Inc)	since 2016
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MethodsX (Elsevier)	since 2021
MLIS 2019 Int. Conf. on Machine Learning and Intelligent Systems – Hualien (Taiwan)	2019
Naval Research Logistics (Wiley)	since 2019
New Trends in Civil Aviation conference (NTCA 2020)	2020
PLOS One (Public Library of Science)	since 2016
Progress in Nuclear Energy (Elsevier)	since 2019
Processes (MDPI)	since 2020
Quality and Reliability Engineering International (Wiley)	since 2019
Reliability Engineering & System Safety (Elsevier)	since 2017
Safety (MDPI)	since 2018
Safety and Health at Work (Elsevier)	since 2019
Safety Science (Elsevier)	since 2016
Supply Chain Forum Journal (Taylor & Francis)	since 2019
Sustainability (MDPI)	since 2018
Sustainable Computing, Informatics and Systems (Elsevier)	since 2020
Symmetry (MDPI)	since 2019
The Open Cybernetics and Systemics Journal (Bentham Open)	since 2017
The Open Transportation Journal (Bentham Open)	since 2019
Transportation Research Part E: Logistics and Transportation Review (Elsevier)	since 2016
Water and Environment Journal (Elsevier)	since 2019