

RICCARDO PATRIARCA

Curriculum Vitae

Place ROMA
Date 12/04/2021

Part I – General Information

Full Name	RICCARDO PATRIARCA
Date of Birth	-
Place of Birth	-
Citizenship	-
Permanent Address	-
Mobile Phone Number	-
E-mail	-
Spoken Languages	-

Part II – Education

Type	Year	Institution	Notes
Doctor Europaeus	2017	Sapienza University of Rome	Title obtained for international research experiences conducted during the PhD.
PhD	2017	Sapienza University of Rome	PhD In Industrial and Management Engineering (XXX cycle). Thesis: “Developing risk and safety management methods for complex socio-technical systems: From Newtonian reasoning to Resilience Engineering”. Classification: excellent.
Master of Science	2014	Sapienza University of Rome	MSc in Aeronautical Engineering .
Bachelor of Science	2011	Sapienza University of Rome	BSc in Aerospace Engineering.

Part III – Appointments

III.A – Academic Appointments

Start	End	Institution	Position
01/03/2021	28/02/2022	Sapienza University of Rome	Post-Doc fellowship (Assegno di ricerca). Research theme: “RESCUE – Resilience Engineering for Safety in Complex Unexpected Events” (renewed from previous year, ongoing).
01/03/2020	28/02/2021	Sapienza University of Rome	Post-Doc fellowship (Assegno di ricerca). Fellowship “BE-for-ERC” under the funding scheme SAPIEXCELLENCE. Research theme: “RESCUE – Resilience

01/03/2019	28/02/2020	Sapienza University of Rome	Engineering for Safety in Complex Unexpected Events".
01/03/2018	28/02/2019	Sapienza University of Rome	Post-Doc fellowship (Assegno di ricerca). Research theme: "Risk management in complex socio-technical systems" (renewed from previous year).
18/12/2017	18/02/2018	Sapienza University of Rome	Post-Doc fellowship (Assegno di ricerca). Research: "Risk management in complex socio-technical systems".
			Research scholarship: "Development of a resilience engineering model based on FRAM for applications of industrial interest".

III.B – Other Appointments

Start	End	Institution	Position
01.01.2020	ongoing	aiComply – spin off of Department of Mechanical and Aerospace Engineering at Sapienza University of Rome (Italy)	Project Manager
15/01/2018	15/04/2018	EUROCONTROL – Safety Unity, Network Management Directorate (Belgium)	PhD Intern
01/01/2016	ongoing	aiComply – spin off of Department of Mechanical and Aerospace Engineering at Sapienza University of Rome (Italy)	Business Analyst Specialist
13/06/2016	15/07/2016	Lund University– Division of Risk Management and Societal Safety (Sweden)	PhD Visiting Research Student
06/09/2016	04/11/2016		

Part IV – Teaching experience

A. Y.	Institution	Lecture/Course
2020/21	Sapienza University of Rome	Adjunct Professor for the MSc in Mechanical Engineering. Course of "Operations Management" (6 ECTS) taught in English.
2020/21	Universitas Mercatorum	Adjunct Professor for the MSc in Management Engineering. Course (ING-IND/17) of "Risk Management in infrastructures and production systems" (9 ECTS).
2019/20	Sapienza University of Rome	Adjunct Professor for the MSc in Mechanical Engineering. Course of "Operations Management" (6 ECTS) taught in English.
2019	Ministry of Defence - Centro per la Formazione Logistica Interforze (Ce.FLI)	Lecturer for Programme in National, NATO, UE/ONU Logistics. Course of "Principles for Maintenance Management".
2018/19	Sapienza University of Rome	Adjunct Professor for the BSc in Mechanical Engineering. Course of "Industrial Plants" (Responsible for 3 out of 9 ECTS).

2017/18	Sapienza University of Rome	Lecturer for the Second-level Master degree in “Services for Logistics and Communications for Complex Systems”- Course of “Maintenance Policies” (1 ECTS).
2017/18	Sapienza University of Rome	Lecturer for the Second-level Master degree in “Services for Logistics and Communications for Complex Systems”- Course of “Maintainability and Availability” (2 ECTS).
2017/20	Lund University (Sweden)	Guest Lecturer for the MSc in Risk Engineering. Guest Lecturer in the Course of “Risk in the Safety Area” (equivalent to about 1 ECTS).
2017/18	Lund University (Sweden)	Guest Lecturer for the MSc in Human Factors and System Safety. Guest Lecturer in the Course of “Risk in the Safety Area” (equivalent to about 0.5 ECTS).
2016/18	Sapienza University of Rome	Lecturer for the Second-level Master degree in “Services for Logistics and Communications for Complex Systems”- Course of “Quality Management” (2 ECTS).
2015/19	Sapienza University of Rome	Lecturer for the Second-level Master degree in “Services for Logistics and Communications for Complex Systems”- Course of “Supply Chain Management” (3 ECTS).

Since A.Y. 2015/2016, Riccardo Patriarca acted as **teaching assistant** for various courses delivered by the research group ING-IND/17 at Sapienza University of Rome:

- MSc programme in Mechanical Engineering
 - o Quality Management (6 ECTS)
 - o Operations Management (9 ECTS)
 - o Smart Factory (6 ECTS)
- BSc programme in Management Engineering
 - o Industrial Plants (6 ECTS)
- BSc programme in Mechanical Engineering
 - o Industrial Plants (9 ECTS)

Part V - Society memberships, Awards and Honors

V.A – Awards

Year	Title
2019	Award: “Italia Giovane 2019” – category: Space. Awarded by Associazione Giovani per Roma.
2019	List-Maker: “Young leader of the Future” – category: Science. Awarded by Forbes Italia. Nominee among the 5 young leaders of the future in the category.
2019	List-Maker: “Forbes 30 under 30” – category: Science and Healthcare. Awarded by Forbes. Nominee among the best 30 people in Europe aged less than 30 years in the category.
2019	Scholarship funded by the IAASS (International Association for Advancements of Space Safety) for the attendance to the 10 th IAASS conference ‘Making safety happen’ (14-17 May 2019, Los Angeles – USA).
2018	‘SESAR Young Scientist Award’ (second place) for the development of a Business Intelligent system to model performance in a complex socio-technical service system such as the Air Traffic Management systems, in collaboration with EUROCONTROL.
2017	‘Minerva Award’ by Fondazione Sapienza for the best PhD research project in the engineering field. Thesis: ‘Developing risk and safety management methods for complex socio-technical

	systems: from Newtonian reasoning to Resilience Engineering’.
2017	‘RAeS Young Person Award’ issued by the Royal Aeronautical Society (RAeS) for researchers aged 30 or less for the excellent results or promises in the aerospace sector, for his research in safety management modelling.
2017	‘REA Young Talent’ issued by the Resilience Engineering Association (REA) for his research in Resilience Engineering.
2016	‘ESRA continuing education scholarship’ issued by European Safety and Reliability Association (ESRA) to attend the course on “Advanced methods for reliability, availability, maintainability, diagnostics and prognostics of industrial equipment” at Politechnic of Milan (21-24 November 2016).
2016	Scholarship funded by the IAASS (International Association for Advancements of Space Safety) for the attendance to the 8 th IAASS conference ‘Safety first, safety for all’ (18-20 May 2016, Melbourne – USA).
2015	‘SESAR Certificate of Scientific Excellence’ for the design of a modelling approach for operations safety management in safety-critical aviation operations.

V.B – Society Memberships

Year	Title
since 2019	Member of Resilience Engineering Association (REA)
since 2017	Junior Member of AIDI (Associazione Italiana dei Docenti di Impianti Industriali)

V.C – Honors

Year	Title
2019	Innovation Manager at “Ministero dello Sviluppo Economico (MISE)” in accordance with the national plan “Industry 4.0”.
since 2019	Advisory Board Member of the LifeBoat Foundation for the Boards of Complex Systems; Engineering; Space Settlement.
since 2018	National Scientific Qualification (Abilitazione Scientifica Nazionale – Professore di Seconda Fascia; SSD: ING-IND/17).

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program
2020	RESCUE – Resilience Engineering for Safety in Complex Unexpected Events. <i>Funded by Sapienza University of Rome [PI]</i>	Development of a multi-method approach to combine Resilience Engineering with ontology engineering and network theory. Awarded as a promising project in the SAPIEXCELLENCE programme for the ERC Starting Grant funding scheme.
2018	Analysis of risks for workers’ health and safety in work contexts subject to digital transformation. <i>Funded by INAIL [I]</i>	BRIC - Project aimed at studying the effects of digitalization on workers’ health & safety to define mitigation measures for emerging risks, in collaboration with LUMSA University, Turin University.
2018	Development of smart	Project aimed at using Digital Twin to identify process

	solutions through Digital Twin methodologies to increase safety of workman in production plant maintenance activities <i>Funded by INAIL [I]</i>	anomalies, through the usage of machine learning solutions.
2018	A framework for the development of Human-Centred Safety Crowd-Sensitive Indicators in Enterprises - H(CS)2I. <i>Funded by SAFERA consortium [I]</i>	Project aimed at the definition of a methodological approach to study organizational performance using the concept of functional resonance and Resilience Engineering.
2018	Resilience Engineering: FRAM analysis of a maintenance process. <i>Funded by Qantas Engineering [I]</i>	Project aimed at the development of a risk analysis model for the maintenance activities carried out by an airline company.
2018	Production phase recognition and anomaly detection through machine learning for a predictive maintenance model. <i>Funded by Sapienza University of Rome [I]</i>	Project aimed at the definition of a machine learning model to optimise condition-based maintenance interventions.
2017-2019	SMART-SAF: Managing aviation safety knowledge for assessing risks and resilience. <i>Funded by Sapienza University of Rome [I]</i>	Project aimed at defining a methodology for the analysis of operational safety reporting in socio-technical systems.
2017	Resilience Engineering to enhance safety of complex systems: a new systemic method. <i>Funded by Sapienza University of Rome [PI]</i>	Project aimed at defining a method combining traditional risk assessment approaches with the ones proposed by Resilience Engineering.
2017	Risk Assessment for bid processes in no captive markets. <i>Funded by Italferr [I]</i>	Project aimed at defining a risk assessment model for international bidding processes.
2017	FRASI- Framework for Enterprise Safety Rating. <i>Funded by INAIL [I]</i>	Project for the design and development of an innovative rating model for levels of excellence in health and safety management.
2016	Modelling the safety performance of the air traffic management system. <i>Funded by Sapienza University of Rome [PI]</i>	Project aimed at defining a combined analytical-simulation model for safety management in air traffic service provider companies.
2015	Quality assessment for	Project aimed at the definition of business performance

	airport handling. <i>Funded by Consulta s.p.a [I]</i>	model for a ground-handler in Rome Fiumicino airport with respect to national and international quality levels.
2015	Product maintenance management by lifecycle assessment. <i>Funded by Sapienza University of Rome [I]</i>	Project aimed at improving the management of maintenance process using lifecycle assessment.
2014	Assessment and decision-making support to increase supply chain resilience to disruption. <i>Funded by Sapienza University of Rome [I]</i>	Project aimed at building a Monte Carlo simulation model to assess the effects and responses to uncertain events.

Part VII – Research Activities (main)

Keywords

Brief Description

Safety Management and Ergonomics	Research aimed at enhancing modern safety management approaches acknowledging the complex nature of socio-technical systems. Research devoted at both theoretical aspects and practical applications through various modelling techniques rooted in both traditional risk management and Resilience Engineering.
Operations Management	Research aimed at optimizing production processes and service systems through analytical modelling, simulations, expert systems, and machine learning. The research aims to define techno-economic optimization aspects and improve the design and operability of industrial operations.
Logistics and Material handling	Research aimed at defining optimal inventory management strategies and practical solutions in multi-echelon, multi-item, multi-indenture contexts optimizing aspects available locally in larger supply chain contexts.
Quality management	Research specifically devoted to defining frameworks for performance management and specific indicators for the analysis of industrial performance, even considering modern implications driven by Business Intelligence and Artificial Intelligence.
Industrial automation	Research aimed at understanding the implications for automation and digitalization of work process, employing cyber-physical systems and cobots with different degrees of autonomy in line with Industry 4.0 paradigms.

Part VIII – Scientific Achievements

VIII.A – Summary of contributions

Product type	Number	Data Base	Start	End
Papers [international journals]	50	Scopus	2014	2021
Papers [conference proceedings]	11	Scopus	2014	2020

Book Chapters	1	Oxford University Press (OUP)	2021	-
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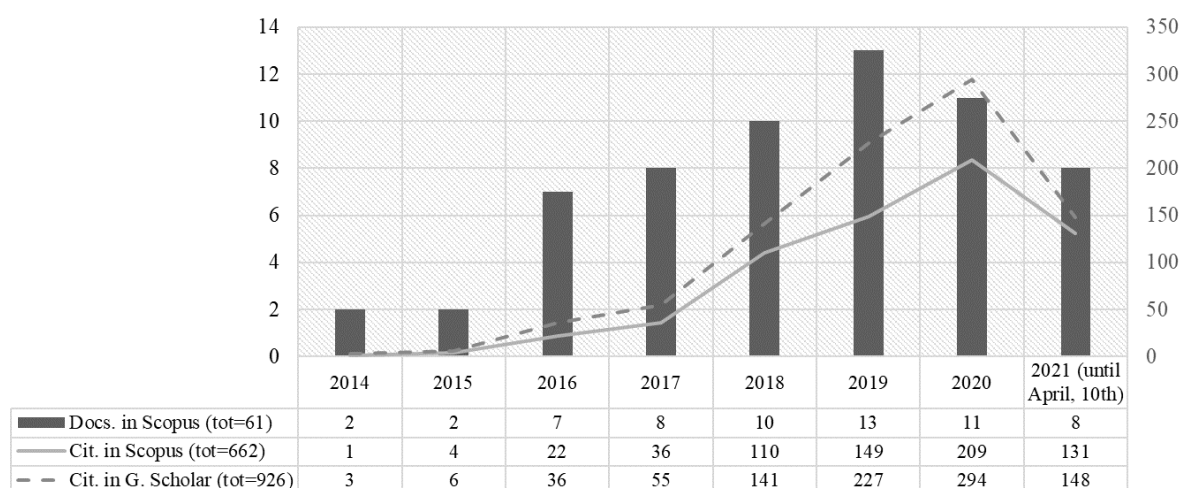
Total Impact factor (Web of Science, Clarivate Journal Citation Reports)	110.59
Total Citations (Scopus)	662
Average Citations per Product (Scopus)	10.85
Hirsch (H) index (Scopus)	14
Normalized H index* (Scopus)	2

*H index divided by the academic seniority.

¹ Index calculated using the Impact Factor of the sources in the year of the publication. For recent publications (2020, 2021) it has been used the most recent value available, i.e. 2019.

*H index divided by the academic seniority.

A graphical summary over time of publications indexed in Scopus is presented in the following figure, which includes the evolution of citations in Scopus and Google Scholar. Data confirms continuity in the volume of publications with an increasing recognition by the scientific community proven by the citations' count.



VIII.B – Editorial Board Membership

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)
2017-19	Journal of Safety Studies (MacroThink)

VIII.C – Guest Editorial Roles

2020/21	Guest Editor - Journal of Loss Prevention in the Process Industries (Elsevier) for the Special Issue: Harmonising Occupational and Process Safety: a myth or a good safety management practice? Guest Editorial Team: N. Paltrinieri, J. Maiti, E. Stefana, R. Patriarca.
2020/21	Guest Editor - Safety Science (Elsevier) for the Special Issue: Meta-learning peculiarities and approaches for facing safety issues and enhancing risk management process. Guest Editorial Team: E. Stefana, R. Patriarca, E. Lopex Droguett, N. Paltrinieri.

2020/21	Guest Editor - Infrastructures (MDPI), for the Special Issue: Infrastructure Resilience in Emergency Situations. Guest Editorial Team: R. Patriarca, G. Di Gravio, G. Praetorius, I. A. Herrera.
2019/20	Guest Editor - Sustainability (MDPI), for the Special Issue: Inventory Management for Sustainable Industrial Operations. Guest Editorial Team: R. Patriarca, G. Di Gravio, F. Costantino.
2018/19	Guest Editor - Complexity (Hindawi), for the Special Issue: Modelling and Quantification of Resilience in Complex Engineering Systems. Guest Editorial Team: S. Hosseini, R. Patriarca, M. Sarder.
2018/19	Guest Editor - Sustainability (MDPI), for the Special Issue: Resilience Engineering for Sustainability: Methodological Approaches and Practical Experience. Guest Editorial Team: G. Di Gravio, F. Costantino, R. Patriarca.

VIII.D – Reviewing Activities

since 2018	Academy of Strategic Management Journal (Allied Journal)
since 2018	Aerospace (MDPI)
since 2019	Applied Ergonomics (Elsevier)
since 2020	Applied Sciences (MDPI)
since 2020	Chemical Engineering Transactions (CET)
since 2018	Cogent Business & Management (Cogent OA)
since 2018	Cogent Engineering (Taylor & Francis)
since 2017	Cognition, Technology & Work (Springer)
since 2018	Computers & Industrial Engineering (Elsevier)
since 2019	Electronics (MDPI)
since 2018	Energies (MDPI)
since 2018	Entropy (MDPI)
since 2020	Environment, Systems and Decisions (Springer)
since 2017	Expert Systems with Applications (Elsevier)
since 2020	Information (MDPI)
since 2018	Infrastructures (MDPI)
since 2018	Int. J. of Environmental Research and Public Health (MDPI)
since 2016	Int. J. of Production Research (Taylor & Francis)
since 2019	Int. J. of Productions Economics (Elsevier)
since 2017	Int. J. of Supply Chain and Inventory Management (Inderscience)
since 2019	Inventions (MDPI)
since 2020	J. of Advanced Research (Elsevier)
since 2017	J. of Aerospace Information Systems (AIAA)
since 2018	J. of Air Transport Management (Elsevier)
since 2019	J. of Computational Methods in Sciences and Engineering (IoS Press)
since 2019	J. of Contingencies and Crisis Management (Wiley)
since 2020	J. of Crisis and Contingencies Management (Wiley)
since 2017	J. of Industrial Engineering and Management (OmniaScience)
since 2019	J. of Loss Prevention in the process industries (Elsevier)
since 2020	J. of Surveillance, Security and Safety (Oae Publishing Inc.)
since 2017	Kybernetes (Emerald Insight)
since 2020	Mathematical Problems in Engineering (Hindawi)

since 2020	Mathematics (MDPI)
since 2021	MethodsX (Elsevier)
since 2019	Naval Research Logistics (Wiley)
since 2016	PLOS One (Public Library of Science)
since 2019	Progress in Nuclear Energy (Elsevier)
since 2020	Processes (MDPI)
since 2019	Quality and Reliability Engineering International (Wiley)
since 2017	Reliability Engineering & System Safety (Elsevier)
since 2018	Safety (MDPI)
since 2019	Safety and Health at Work (Elsevier)
since 2016	Safety Science (Elsevier)
since 2019	Supply Chain Forum Journal (Taylor & Francis)
since 2018	Sustainability (MDPI)
since 2020	Sustainable Computing, Informatics and Systems (Elsevier)
since 2019	Symmetry (MDPI)
since 2017	The Open Cybernetics and Systemics Journal (Bentham Open)
since 2019	The Open Transportation Journal (Bentham Open)
since 2016	Transportation Research Part E: Logistics and Transportation Review (Elsevier)
since 2019	Water and Environment Journal (Elsevier)

VIII.E –Scientific Board/Committee member

2020/21	9th Resilience Engineering Association (REA) Symposium, Member of the Organizing Committee – Hybrid; 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)
2019/21	9th Resilience Engineering Association (REA) Symposium, Young Talent Committee Co-Chair – Hybrid; 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)
2017/19	8th Resilience Engineering Association (REA) Symposium, Young Talent Committee Member - Kalmar (Sweden)
2017	19 th NTCA International Conference (New Trends in Civil Aviation) - Prague (Czech Republic)
2017	11th FRAMily meeting & workshop - Rome (Italy)

VIII.F – International research collaborations

Research agreements (not funded)

- National University of Singapore (Singapore): Resilience Engineering for bio-hazards laboratory
- Universidad Nacional del Sur – CNEA (Argentina): Resilience analysis for experimental nuclear reactors
- NIKE (Belgio): Human factor and human-machine interaction in picking processes assisted by cobot

International collaborations (testified by publications)

- Australia Macquarie University
- Belgium KU Leuven
- Belgium University of Antwerp
- Brasil Universidade Federal do Rio Grande do Sul
- Denmark Danish Maritime Accident Investigation Board
- Egypt Fayoum University
- Egypt El-Cairo University
- Norway Institute for Energy Technology
- Norway Norwegian University of Science and Technology
- Norway University of South-Eastern Norway
- Norway Norwegian BI School – Campus of Stavanger
- Portugal University of Lisbon
- Czech Rep. Czech Technical University of Prague
- Spain University of Alicante
- Sweden Jönköping Academy
- Sweden Kalmar Maritime Academy, Linnaeus University
- Sweden Lund University
- Sweden 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

Part IX– Selected Publications

1. **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.
2. **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. doi: 10.1016/j.res.2021.107467.
3. **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. doi: 10.1007/s11740-020-00986-5.
4. 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.
5. **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.
6. 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.
7. 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.
8. **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>.
9. **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.

10. 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.
11. **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.
12. **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.
13. **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.
14. **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.
15. **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.

Part X– Other Publications

X.A – International Journals

1. 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, volume 14 (12), pp. 46-68. doi: 10.4018/IJISSCM.2021040103.
2. 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, doi: 10.1111/1468-5973.12353 - early view.
3. 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.
4. Cantelmi R., Di Gravio G., **Patriarca R.** (2020). *Reviewing qualitative research approaches in the context of Critical Infrastructure resilience*, Environment Systems and Decisions, doi: 10.1007/s10669-020-09795-8 - online first.
5. 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.
6. 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.
7. 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
8. 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.
9. 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.
10. **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.

11. 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.
12. **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.
13. **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.
14. **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.
15. 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.
16. **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.
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