

Polinpapilinho Katina

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

834
citations

567144

15
h-index

526166

27
g-index

102
all docs

102
docs citations

102
times ranked

300
citing authors

#	ARTICLE	IF	CITATIONS
1	Systems of systems engineering: prospects and challenges for the emerging field. International Journal of System of Systems Engineering, 2011, 2, 234.	0.4	87
2	Complex system governance: concept, challenges, and emerging research. International Journal of System of Systems Engineering, 2014, 5, 263.	0.4	76
3	System requirements engineering in complex situations. Requirements Engineering, 2014, 19, 45-62.	2.1	66
4	Interdependency-induced risk with applications to healthcare. International Journal of Critical Infrastructure Protection, 2014, 7, 12-26.	2.9	54
5	Emerging Risk Management in Industry 4.0: An Approach to Improve Organizational and Human Performance in the Complex Systems. Complexity, 2019, 2019, 1-13.	0.9	49
6	Prevalence of pathologies in systems of systems. International Journal of System of Systems Engineering, 2012, 3, 243.	0.4	44
7	Systemic determination of infrastructure criticality. International Journal of Critical Infrastructures, 2013, 9, 211.	0.1	41
8	Complex system governance development: a first generation methodology. International Journal of System of Systems Engineering, 2016, 7, 43.	0.4	34
9	Complex system governance: Concept, utility, and challenges. Systems Research and Behavioral Science, 2019, 36, 687-705.	0.9	30
10	Critical infrastructures: a perspective from systems of systems. International Journal of Critical Infrastructures, 2015, 11, 316.	0.1	27
11	Regional industries as critical infrastructures: a tale of two modern cities. International Journal of Critical Infrastructures, 2012, 8, 74.	0.1	26
12	Emerging systems theory-based pathologies for governance of complex systems. International Journal of System of Systems Engineering, 2015, 6, 144.	0.4	24
13	Systems Theory as a Foundation for Discovery of Pathologies for Complex System Problem Formulation. Advanced Sciences and Technologies for Security Applications, 2016, , 227-267.	0.4	24
14	Sustainability of systems of systems. International Journal of System of Systems Engineering, 2014, 5, 93.	0.4	19
15	Blockchain governance. International Journal of Critical Infrastructures, 2019, 15, 121.	0.1	17
16	Metasystem pathologies (M-Path) method: phases and procedures. Journal of Management Development, 2016, 35, 1287-1301.	1.1	15
17	Critical Infrastructures, Key Resources, Key Assets. Topics in Safety, Risk, Reliability and Quality, 2018, , .	0.1	15
18	Critical Infrastructures: Risk and Vulnerability Assessment in Transportation of Dangerous Goods. Topics in Safety, Risk, Reliability and Quality, 2016, , .	0.1	13

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19	A Criticality-based Approach for the Analysis of Smart Grids. Technology and Economics of Smart Grids and Sustainable Energy, 2016, 1, 1.	1.8	12
20	Cyber-Physical Systems Governance: A Framework for (Meta)CyberSecurity Design. Advanced Sciences and Technologies for Security Applications, 2018, , 137-169.	0.4	11
21	Application of fuzzy sets in decision analysis for prioritising critical energy infrastructures. International Journal of Decision Sciences, Risk and Management, 2015, 6, 1.	0.1	8
22	SYSTEMS THEORY AS A CONCEPTUAL FOUNDATION FOR SYSTEM OF SYSTEMS ENGINEERING. Insight, 2016, 19, 47-50.	0.1	8
23	Critical Infrastructures, Key Resources, and Key Assets. Topics in Safety, Risk, Reliability and Quality, 2018, , 3-37.	0.1	8
24	Modelling and simulation in complex system governance. International Journal of System of Systems Engineering, 2020, 10, 262.	0.4	8
25	Systems Theory: Bridging the Gap Between Science and Practice for Systems Engineering. Incoase International Symposium, 2020, 30, 1017-1031.	0.2	8
26	Complex System Governance as a Framework for Asset Management. Sustainability, 2021, 13, 8502.	1.6	8
27	Acquisition System Development: A Complex System Governance Perspective. Incoase International Symposium, 2017, 27, 811-825.	0.2	7
28	Modelling the 2008 financial economic crisis: triggers, perspectives and implications from systems dynamics. International Journal of System of Systems Engineering, 2015, 6, 273.	0.4	6
29	Complex system governance for critical cyber-physical systems. International Journal of Critical Infrastructures, 2017, 13, 168.	0.1	6
30	Systemic intervention methods supporting complex system governance initiatives. International Journal of System of Systems Engineering, 2018, 8, 285.	0.4	6
31	A Governance Perspective for System-of-Systems. Systems, 2019, 7, 54.	1.2	6
32	Critical Space Infrastructures. Topics in Safety, Risk, Reliability and Quality, 2019, , .	0.1	5
33	Systems Thinking: A Critical Skill for Systems Engineers. Incoase International Symposium, 2021, 31, 522-536.	0.2	5
34	A complex structure representation of the US critical infrastructure protection program based on the Zachman framework. International Journal of System of Systems Engineering, 2019, 9, 221.	0.4	4
35	A cybernetic ontology for project management. International Journal of System of Systems Engineering, 2017, 8, 42.	0.4	3
36	Framework for Improving Complex System Performance. Incoase International Symposium, 2019, 29, 1218-1232.	0.2	3

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37	Multi-objective multi-customer project network: visualising interdependencies and influences. International Journal of System of Systems Engineering, 2019, 9, 139.	0.4	3
38	System acquisition pathology: a comprehensive characterisation of system failure modes and effects. International Journal of Critical Infrastructures, 2020, 16, 255.	0.1	3
39	Complex System Governance as a Foundation for Enhancing the Cybersecurity of Cyber-Physical Systems. International Journal of Cyber Warfare and Terrorism, 2021, 11, 1-14.	0.3	3
40	Enhancing Utility Manager's Capability for Dealing With Complex Issues. Proceedings of the Water Environment Federation, 2016, 2016, 4207-4232.	0.0	3
41	CSiA – A Complex System Governance Approach. Topics in Safety, Risk, Reliability and Quality, 2019, , 281-320.	0.1	3
42	Grounding evaluation capacity development in systems theory. Evaluation, 0, , 135638902210888.	0.7	3
43	A three-phase framework for elicitation of infrastructure requirements. International Journal of Critical Infrastructures, 2012, 8, 121.	0.1	2
44	Infranomics. Topics in Safety, Risk, Reliability and Quality, 2014, , .	0.1	2
45	A Systems-Based Framework for Design and Analysis of an R and D Structure. Systems, 2017, 5, 44.	1.2	2
46	Governance Vulnerability Facets. Topics in Safety, Risk, Reliability and Quality, 2018, , 39-79.	0.1	2
47	System of Systems Governance. Topics in Safety, Risk, Reliability and Quality, 2018, , 93-130.	0.1	2
48	Systemic Intervention for Complex System Governance. IncoSE International Symposium, 2018, 28, 1534-1548.	0.2	2
49	Towards a framework for enterprise-wide operational agility in complex environments. International Journal of System of Systems Engineering, 2020, 10, 91.	0.4	2
50	Systemic intervention methods supporting complex system governance initiatives. International Journal of System of Systems Engineering, 2018, 8, 285.	0.4	2
51	Future Challenges for Complex System Governance Research and Practice. Topics in Safety, Risk, Reliability and Quality, 2022, , 541-575.	0.1	2
52	Towards a Systems Theory-based Curriculum for Complex Systems Governance. , 0, , .		1
53	Individual and Societal Risk (RiskIS): Beyond Probability and Consequence During Hurricane Katrina. Advanced Sciences and Technologies for Security Applications, 2016, , 1-23.	0.4	1
54	Use of Cellular Automata in Assessment of Risk and Vulnerability. Topics in Safety, Risk, Reliability and Quality, 2018, , 131-148.	0.1	1

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55	Establishing Governance for CSI: An MCDA Approach. Topics in Safety, Risk, Reliability and Quality, 2019, , 249-279.	0.1	1
56	Serious Gaming and Policy Gaming. Topics in Safety, Risk, Reliability and Quality, 2019, , 215-226.	0.1	1
57	Managerial Vulnerability Assessment Models. Topics in Safety, Risk, Reliability and Quality, 2018, , 175-196.	0.1	1
58	A cybernetic ontology for project management. International Journal of System of Systems Engineering, 2017, 8, 42.	0.4	1
59	Complex system governance for critical cyber-physical systems. International Journal of Critical Infrastructures, 2017, 13, 168.	0.1	1
60	Dynamic Capability Model. Topics in Safety, Risk, Reliability and Quality, 2018, , 231-246.	0.1	1
61	Blockchain governance. International Journal of Critical Infrastructures, 2019, 15, 121.	0.1	1
62	The Vulnerability Issue. Topics in Safety, Risk, Reliability and Quality, 2016, , 91-105.	0.1	0
63	A Physical Analogy for Resilience and Vulnerability. Topics in Safety, Risk, Reliability and Quality, 2018, , 83-91.	0.1	0
64	Nuclear Reactors Vulnerability Assessmentâ€”A Generic Model. Topics in Safety, Risk, Reliability and Quality, 2018, , 149-156.	0.1	0
65	Emerging Space Treats and Satellites. Topics in Safety, Risk, Reliability and Quality, 2018, , 157-173.	0.1	0
66	The Case for Sihl Dam. Topics in Safety, Risk, Reliability and Quality, 2018, , 285-312.	0.1	0
67	Critical Space Infrastructure Protection. Topics in Safety, Risk, Reliability and Quality, 2019, , 151-200.	0.1	0
68	Crisis and Emergency Situation Management. Topics in Safety, Risk, Reliability and Quality, 2019, , 201-214.	0.1	0
69	Governance by Emerging Technologiesâ€”The Case for Sand and Blockchain Technology. Topics in Safety, Risk, Reliability and Quality, 2019, , 237-247.	0.1	0
70	Governance in CPS. , 2021, , 1-3.		0
71	Quantitative Probability Assessment of Loc Accident. Topics in Safety, Risk, Reliability and Quality, 2016, , 23-55.	0.1	0
72	An Illustrative Exampleâ€”The Case for Aarau-Zurich. Topics in Safety, Risk, Reliability and Quality, 2016, , 163-176.	0.1	0

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73	Loc Consequence Assessment. Topics in Safety, Risk, Reliability and Quality, 2016, , 57-90.	0.1	0
74	Physical Analogies-Based Model for Quantitative Vulnerability Assessment of Transportation Corridors. Topics in Safety, Risk, Reliability and Quality, 2016, , 145-161.	0.1	0
75	Improving reliability in critical healthcare sector using FAMECA methodology. BMJ Leader, 2017, 1, 50-56.	0.8	0
76	The Postfaceâ€™Toward Space, Undersea, and Belowground Governance. Topics in Safety, Risk, Reliability and Quality, 2018, , 345-353.	0.1	0
77	Vulnerability Analysis and Swiss Reductionâ€™Building a Framework for Ranking Solutions. Topics in Safety, Risk, Reliability and Quality, 2018, , 275-284.	0.1	0
78	Urban Area Vulnerability Assessment: Cellular Automaton Approach to Airflow Dispersion in Complex Terrains. Topics in Safety, Risk, Reliability and Quality, 2018, , 313-332.	0.1	0
79	Vulnerability of a Regional Economy in a Global Competition. Topics in Safety, Risk, Reliability and Quality, 2018, , 333-343.	0.1	0
80	Airborne Emissions and Territorial Vulnerability Assessment. Topics in Safety, Risk, Reliability and Quality, 2018, , 197-209.	0.1	0
81	Critical Space Infrastructure Interdependencies. Topics in Safety, Risk, Reliability and Quality, 2019, , 79-139.	0.1	0
82	Critical Infrastructure. Topics in Safety, Risk, Reliability and Quality, 2019, , 1-19.	0.1	0
83	A complex structure representation of the US critical infrastructure protection program based on the Zachman framework. International Journal of System of Systems Engineering, 2019, 9, 221.	0.4	0
84	Multi-objective multi-customer project network: visualising interdependencies and influences. International Journal of System of Systems Engineering, 2019, 9, 139.	0.4	0
85	Critical Space Infrastructure Taxonomy. Topics in Safety, Risk, Reliability and Quality, 2019, , 37-78.	0.1	0