

Robert Lagerström

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

1,400
citations

516215

16
h-index

476904

29
g-index

91
all docs

91
docs citations

91
times ranked

614
citing authors

#	ARTICLE	IF	CITATIONS
1	Enterprise architecture analysis with extended influence diagrams. Information Systems Frontiers, 2007, 9, 163-180.	4.1	125
2	Threat modeling – A systematic literature review. Computers and Security, 2019, 84, 53-69.	4.0	122
3	Enterprise Architecture Meta Models for IT/Business Alignment Situations. , 2010, , .		61
4	Can the Common Vulnerability Scoring System be Trusted? A Bayesian Analysis. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 1002-1015.	3.7	60
5	A Meta Language for Threat Modeling and Attack Simulations. , 2018, , .		59
6	Automatic data collection for enterprise architecture models. Software and Systems Modeling, 2014, 13, 825-841.	2.2	51
7	Cyber security threat modeling based on the MITRE Enterprise ATT&CK Matrix. Software and Systems Modeling, 2022, 21, 157-177.	2.2	47
8	Architecture analysis of enterprise systems modifiability – Models, analysis, and validation. Journal of Systems and Software, 2010, 83, 1387-1403.	3.3	45
9	Quantifying Success Factors for IT Projects – An Expert-Based Bayesian Model. Information Systems Management, 2014, 31, 21-36.	3.2	42
10	Securi CAD by Foreseeti: A CAD Tool for Enterprise Cyber Security Management. , 2015, , .		33
11	A Tool for Enterprise Architecture Analysis Using the PRM Formalism. Lecture Notes in Computer Science, 2011, , 108-121.	1.0	30
12	Time between vulnerability disclosures: A measure of software product vulnerability. Computers and Security, 2016, 62, 278-295.	4.0	29
13	Identifying factors affecting software development cost and productivity. Software Quality Journal, 2012, 20, 395-417.	1.4	27
14	Extended Influence Diagrams for Enterprise Architecture Analysis. 2006 10th IEEE International Enterprise Distributed Object Computing Conference (EDOC'06), 2006, , .	0.0	25
15	EAF2- A Framework for Categorizing Enterprise Architecture Frameworks. , 2009, , .		25
16	pwnPr3d: An Attack-Graph-Driven Probabilistic Threat-Modeling Approach. , 2016, , .		25
17	A Framework for Service Interoperability Analysis using Enterprise Architecture Models. , 2008, , .		23
18	Data Collection Prioritization for System Quality Analysis. Electronic Notes in Theoretical Computer Science, 2009, 233, 29-42.	0.9	21

#	ARTICLE	IF	CITATIONS
19	Architecture analysis of enterprise systems modifiability: a metamodel for software change cost estimation. <i>Software Quality Journal</i> , 2010, 18, 437-468.	1.4	20
20	Visualizing and Measuring Enterprise Application Architecture: An Exploratory Telecom Case. , 2014, , .		20
21	An Attack Simulation Language for the IT Domain. <i>Lecture Notes in Computer Science</i> , 2020, , 67-86.	1.0	20
22	Enterprise Architecture Management's Impact on Information Technology Success. , 2011, , .		18
23	powerLang: a probabilistic attack simulation language for the power domain. <i>Energy Informatics</i> , 2020, 3, .	1.4	18
24	Extended Influence Diagrams for System Quality Analysis. <i>Journal of Software</i> , 2007, 2, .	0.6	18
25	Probabilistic Modeling and Simulation of Vehicular Cyber Attacks: An Application of the Meta Attack Language. , 2019, , .		18
26	Using Architectural Models to Predict the Maintainability of Enterprise Systems. <i>Software Maintenance and Reengineering (CSMR), Proceedings of the European Conference on</i> , 2008, , .	0.0	17
27	Automating threat modeling using an ontology framework. <i>Cybersecurity</i> , 2020, 3, .	3.1	17
28	Enterprise Meta Modeling Methods “Combining a Stakeholder-Oriented and a Causality-Based Approach. <i>Lecture Notes in Business Information Processing</i> , 2009, , 381-393.	0.8	16
29	Visualizing and Measuring Enterprise Architecture: An Exploratory BioPharma Case. <i>Lecture Notes in Business Information Processing</i> , 2013, , 9-23.	0.8	16
30	A Requirements Based Approach for Automating Enterprise IT Architecture Modeling Using Multiple Data Sources. , 2015, , .		15
31	Creating Meta Attack Language Instances using ArchiMate: Applied to Electric Power and Energy System Cases. , 2019, , .		15
32	A Bayesian network for IT governance performance prediction. , 2008, , .		14
33	Load balancing of renewable energy: a cyber security analysis. <i>Energy Informatics</i> , 2018, 1, .	1.4	14
34	Enterprise Architecture and Agile Development: Friends or Foes?. , 2018, , .		14
35	A Tool for Enterprise Architecture Analysis of Maintainability. , 2009, , .		13
36	Enterprise Architecture Evaluation Using Utility Theory. , 2013, , .		13

#	ARTICLE	IF	CITATIONS
37	Trends in Enterprise Architecture Practice – A Survey. Lecture Notes in Business Information Processing, 2010, , 16-29.	0.8	12
38	Analyzing the Effectiveness of Attack Countermeasures in a SCADA System. , 2017, , .		12
39	Research communities in cyber security: A comprehensive literature review. Computer Science Review, 2021, 42, 100431.	10.2	12
40	Exploring the Relationship Between Architecture Coupling and Software Vulnerabilities. Lecture Notes in Computer Science, 2017, , 53-69.	1.0	12
41	Mapping the Substation Configuration Language of IEC 61850 to ArchiMate. , 2010, , .		11
42	Automatic Probabilistic Enterprise IT Architecture Modeling: A Dynamic Bayesian Networks Approach. , 2016, , .		11
43	Threat Modeling and Attack Simulations of Connected Vehicles: A Research Outlook. , 2019, , .		11
44	Analysis of IT/Business Alignment Situations as a Precondition for the Design and Engineering of Situated IT/Business Alignment Solutions. , 2011, , .		10
45	Automated architecture modeling for enterprise technology manageme using principles from data fusion: A security analysis case. , 2016, , .		9
46	A Study of Security Vulnerabilities and Software Weaknesses in Vehicles. Lecture Notes in Computer Science, 2019, , 204-218.	1.0	9
47	VehicleLang: A probabilistic modeling and simulation language for modern vehicle IT infrastructures. Computers and Security, 2022, 117, 102705.	4.0	9
48	Enhancing Cyber Security of LoRaWAN Gateways under Adversarial Attacks. Sensors, 2022, 22, 3498.	2.1	9
49	A Study on Software Vulnerabilities and Weaknesses of Embedded Systems in Power Networks. , 2017, , .		8
50	A Methodology for Operationalizing Enterprise Architecture and Evaluating Enterprise IT Flexibility. SSRN Electronic Journal, 0, , .	0.4	8
51	Modeling Enterprise Authorization: A Unified Metamodel and Initial Validation. Complex Systems Informatics and Modeling Quarterly, 2016, , 1-24.	0.5	7
52	Two decades of cyberattack simulations: A systematic literature review. Computers and Security, 2022, 116, 102681.	4.0	7
53	Decision support oriented Enterprise Architecture metamodel management using classification trees. , 2009, , .		5
54	Re-using Enterprise Architecture Repositories for Agile Threat Modeling. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
55	A Method for Assigning Probability Distributions in Attack Simulation Languages. Complex Systems Informatics and Modeling Quarterly, 2021, , 55-77.	0.5	5
56	Integrating Security Behavior into Attack Simulations. , 2021, , .		5
57	Technology management through architecture reference models: A smart metering case. , 2016, , .		4
58	Modeling and analyzing systems-of-systems in the multi-attribute prediction language (MAPL). , 2016, , .		4
59	In-Depth Modeling of the UNIX Operating System for Architectural Cyber Security Analysis. , 2017, , .		4
60	A Systematic Literature Review of Information Sources for Threat Modeling in the Power Systems Domain. Lecture Notes in Computer Science, 2020, , 47-58.	1.0	4
61	Anomaly-based Intrusion Detection using Tree Augmented Naive Bayes. , 2021, , .		4
62	Towards Automated Attack Simulations of BPMN-based Processes. , 2021, , .		4
63	A Framework for Assessing Business Value of Service Oriented Architectures. , 2007, , .		3
64	Assessing Modifiability in Application Services Using Enterprise Architecture Models – A Case Study. Lecture Notes in Business Information Processing, 2012, , 162-181.	0.8	3
65	Extending a general theory of software to engineering. , 2014, , .		3
66	Quantitative Information Security Risk Estimation Using Probabilistic Attack Graphs. Lecture Notes in Computer Science, 2017, , 37-52.	1.0	3
67	Threat Modeling of Connected Vehicles: A privacy analysis and extension of vehicleLang. , 2019, , .		3
68	Threat Modeling and Attack Simulations of Connected Vehicles: Proof of Concept. Communications in Computer and Information Science, 2020, , 272-287.	0.4	3
69	Conceptual Abstraction of Attack Graphs – Use Case of securiCAD. Lecture Notes in Computer Science, 2019, , 186-202.	1.0	3
70	A Framework for Automatic IT Architecture Modeling: Applying Truth Discovery. Complex Systems Informatics and Modeling Quarterly, 2019, , 20-56.	0.5	3
71	Attacking Websites Using HTTP Request Smuggling: Empirical Testing of Servers and Proxies. , 2021, , .		3
72	A Method for Choosing Software Assessment Measures Using Bayesian Networks and Diagnosis. , 2009, , .		2

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73	Product feature prioritization using the Hidden Structure method: A practical case at Ericsson. , 2016, , .		2
74	Analyzing attack resilience of an advanced meter infrastructure reference model. , 2016, , .		2
75	Software Architecture Decoupling at Ericsson. , 2017, , .		2
76	Automatic Design of Secure Enterprise Architecture: Work in Progress Paper. , 2017, , .		2
77	Revealing Hidden Structures in Organizational Transformation – A Case Study. Lecture Notes in Business Information Processing, 2015, , 327-338.	0.8	2
78	A Methodology for Operationalizing Enterprise IT Architecture and Evaluating its Modifiability. Complex Systems Informatics and Modeling Quarterly, 2019, , 75-98.	0.5	2
79	Threat Modeling and Attack Simulations of Smart Cities: A Literature Review and Explorative Study. , 2020, , .		2
80	A formal method for cost and accuracy trade-off analysis in software assessment measures. , 2009, , .		1
81	Bridging the gap between business and technology in strategic decision-making for cyber security management. , 2016, , .		1
82	Ethical Principles for Designing Responsible Offensive Cyber Security Training. IFIP Advances in Information and Communication Technology, 2021, , 21-39.	0.5	1
83	Designing an Agile Software Portfolio Architecture: The Impact of Coupling on Performance. Proceedings - Academy of Management, 2017, 2017, 17511.	0.0	1
84	A framework for interoperability analysis on the semantic web using architecture models. , 2008, , .		0
85	Increasing software development efficiency and maintainability for complex industrial systems – A case study. Journal of Software: Evolution and Process, 2013, 25, 285-301.	1.2	0
86	Search-Based Design of Large Software Systems-of-Systems. , 2015, , .		0
87	Designing an Agile Software Portfolio Architecture: The Impact of Coupling on Performance. SSRN Electronic Journal, 0, , .	0.4	0
88	Correction to: A Systematic Literature Review of Information Sources for Threat Modeling in the Power Systems Domain. Lecture Notes in Computer Science, 2021, , C1-C1.	1.0	0
89	Securing IoT Devices using Geographic and Continuous Login Blocking: A Honeypot Study. , 2020, , .		0