

Robert Lagerström

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

857
citations

16
h-index

25
g-index

91
ext. papers

1,101
ext. citations

1.8
avg, IF

4.52
L-index

#	Paper	IF	Citations
76	Enterprise architecture analysis with extended influence diagrams. <i>Information Systems Frontiers</i> , 2007 , 9, 163-180	4	93
75	Threat modeling I A systematic literature review. <i>Computers and Security</i> , 2019 , 84, 53-69	4.9	51
74	Enterprise Architecture Meta Models for IT/Business Alignment Situations 2010 ,		47
73	Quantifying Success Factors for IT Projects I An Expert-Based Bayesian Model. <i>Information Systems Management</i> , 2014 , 31, 21-36	3.1	34
72	Automatic data collection for enterprise architecture models. <i>Software and Systems Modeling</i> , 2014 , 13, 825-841	1.9	34
71	Architecture analysis of enterprise systems modifiability I Models, analysis, and validation. <i>Journal of Systems and Software</i> , 2010 , 83, 1387-1403	3.3	34
70	Can the Common Vulnerability Scoring System be Trusted? A Bayesian Analysis. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2018 , 15, 1002-1015	3.9	27
69	A Tool for Enterprise Architecture Analysis Using the PRM Formalism. <i>Lecture Notes in Computer Science</i> , 2011 , 108-121	0.9	25
68	A Meta Language for Threat Modeling and Attack Simulations 2018 ,		22
67	Time between vulnerability disclosures: A measure of software product vulnerability. <i>Computers and Security</i> , 2016 , 62, 278-295	4.9	20
66	Securi CAD by Foreseeti: A CAD Tool for Enterprise Cyber Security Management 2015 ,		19
65	Identifying factors affecting software development cost and productivity. <i>Software Quality Journal</i> , 2012 , 20, 395-417	1.2	19
64	Architecture analysis of enterprise systems modifiability: a metamodel for software change cost estimation. <i>Software Quality Journal</i> , 2010 , 18, 437-468	1.2	19
63	A Framework for Service Interoperability Analysis using Enterprise Architecture Models 2008 ,		19
62	Data Collection Prioritization for System Quality Analysis. <i>Electronic Notes in Theoretical Computer Science</i> , 2009 , 233, 29-42	0.7	17
61	Visualizing and Measuring Enterprise Application Architecture: An Exploratory Telecom Case 2014 ,		16
60	EAF2- A Framework for Categorizing Enterprise Architecture Frameworks 2009 ,		16

59	pwnPr3d: An Attack-Graph-Driven Probabilistic Threat-Modeling Approach 2016,		16
58	Extended Influence Diagrams for Enterprise Architecture Analysis. <i>2006 10th IEEE International Enterprise Distributed Object Computing Conference (EDOC106), 2006,</i>		13
57	Extended Influence Diagrams for System Quality Analysis. <i>Journal of Software, 2007, 2,</i>	3	13
56	Probabilistic Modeling and Simulation of Vehicular Cyber Attacks: An Application of the Meta Attack Language 2019,		13
55	Enterprise Meta Modeling Methods [Combining a Stakeholder-Oriented and a Causality-Based Approach. <i>Lecture Notes in Business Information Processing, 2009,</i> 381-393	0.6	13
54	Visualizing and Measuring Enterprise Architecture: An Exploratory BioPharma Case. <i>Lecture Notes in Business Information Processing, 2013,</i> 9-23	0.6	13
53	A Requirements Based Approach for Automating Enterprise IT Architecture Modeling Using Multiple Data Sources 2015,		12
52	Enterprise Architecture Management's Impact on Information Technology Success 2011,		12
51	A Tool for Enterprise Architecture Analysis of Maintainability 2009,		12
50	Cyber security threat modeling based on the MITRE Enterprise ATT&CK Matrix. <i>Software and Systems Modeling,1</i>	1.9	12
49	Using Architectural Models to Predict the Maintainability of Enterprise Systems. <i>Software Maintenance and Reengineering (CSMR), Proceedings of the European Conference on, 2008,</i>		11
48	Load balancing of renewable energy: a cyber security analysis. <i>Energy Informatics, 2018, 1,</i>	2.8	10
47	Trends in Enterprise Architecture Practice [A Survey. <i>Lecture Notes in Business Information Processing, 2010,</i> 16-29	0.6	9
46	powerLang: a probabilistic attack simulation language for the power domain. <i>Energy Informatics, 2020, 3,</i>	2.8	9
45	Automatic Probabilistic Enterprise IT Architecture Modeling: A Dynamic Bayesian Networks Approach 2016,		9
44	Creating Meta Attack Language Instances using ArchiMate: Applied to Electric Power and Energy System Cases 2019,		9
43	2018,		9
42	Enterprise Architecture Evaluation Using Utility Theory 2013,		8

41	Analysis of IT/Business Alignment Situations as a Precondition for the Design and Engineering of Situated IT/Business Alignment Solutions 2011 ,		8
40	A Bayesian network for IT governance performance prediction 2008 ,		8
39	An Attack Simulation Language for the IT Domain. <i>Lecture Notes in Computer Science</i> , 2020 , 67-86	0.9	8
38	A Methodology for Operationalizing Enterprise Architecture and Evaluating Enterprise IT Flexibility. <i>SSRN Electronic Journal</i> ,	1	8
37	Mapping the Substation Configuration Language of IEC 61850 to ArchiMate 2010 ,		7
36	Modeling Enterprise Authorization: A Unified Metamodel and Initial Validation. <i>Complex Systems Informatics and Modeling Quarterly</i> , 2016 , 1-24	0.9	7
35	Analyzing the Effectiveness of Attack Countermeasures in a SCADA System 2017 ,		6
34	Automating threat modeling using an ontology framework. <i>Cybersecurity</i> , 2020 , 3,	5	6
33	Threat Modeling and Attack Simulations of Connected Vehicles: A Research Outlook 2019 ,		6
32	Automated architecture modeling for enterprise technology manage me using principles from data fusion: A security analysis case 2016 ,		6
31	A Study on Software Vulnerabilities and Weaknesses of Embedded Systems in Power Networks 2017 ,		5
30	Visualizing and Measuring Software Portfolio Architecture: A Flexibility Analysis 2014 , 65-74		5
29	A Study of Security Vulnerabilities and Software Weaknesses in Vehicles. <i>Lecture Notes in Computer Science</i> , 2019 , 204-218	0.9	5
28	Exploring the Relationship Between Architecture Coupling and Software Vulnerabilities. <i>Lecture Notes in Computer Science</i> , 2017 , 53-69	0.9	5
27	Assessing Modifiability in Application Services Using Enterprise Architecture Models A Case Study. <i>Lecture Notes in Business Information Processing</i> , 2012 , 162-181	0.6	3
26	Decision support oriented Enterprise Architecture metamodel management using classification trees 2009 ,		3
25	A Framework for Assessing Business Value of Service Oriented Architectures 2007 ,		3
24	A Systematic Literature Review of Information Sources for Threat Modeling in the Power Systems Domain. <i>Lecture Notes in Computer Science</i> , 2020 , 47-58	0.9	3

23	Technology management through architecture reference models: A smart metering case 2016 ,		3
22	Re-using Enterprise Architecture Repositories for Agile Threat Modeling 2019 ,		3
21	Software Architecture Decoupling at Ericsson 2017 ,		2
20	In-Depth Modeling of the UNIX Operating System for Architectural Cyber Security Analysis 2017 ,		2
19	Extending a general theory of software to engineering 2014 ,		2
18	A Method for Choosing Software Assessment Measures Using Bayesian Networks and Diagnosis 2009 ,		2
17	Conceptual Abstraction of Attack Graphs - A Use Case of securiCAD. <i>Lecture Notes in Computer Science</i> , 2019 , 186-202	0.9	2
16	A Framework for Automatic IT Architecture Modeling: Applying Truth Discovery. <i>Complex Systems Informatics and Modeling Quarterly</i> , 2019 , 20-56	0.9	2
15	Threat Modeling and Attack Simulations of Connected Vehicles: Proof of Concept. <i>Communications in Computer and Information Science</i> , 2020 , 272-287	0.3	2
14	Revealing Hidden Structures in Organizational Transformation [A Case Study]. <i>Lecture Notes in Business Information Processing</i> , 2015 , 327-338	0.6	2
13	A Method for Assigning Probability Distributions in Attack Simulation Languages. <i>Complex Systems Informatics and Modeling Quarterly</i> , 2021 , 55-77	0.9	2
12	Product feature prioritization using the Hidden Structure method: A practical case at Ericsson 2016 ,		2
11	Threat Modeling of Connected Vehicles: A privacy analysis and extension of vehicleLang 2019 ,		2
10	Integrating Security Behavior into Attack Simulations 2021 ,		2
9	VehicleLang: A probabilistic modeling and simulation language for modern vehicle IT infrastructures. <i>Computers and Security</i> , 2022 , 117, 102705	4.9	2
8	Quantitative Information Security Risk Estimation Using Probabilistic Attack Graphs. <i>Lecture Notes in Computer Science</i> , 2017 , 37-52	0.9	1
7	Analyzing attack resilience of an advanced meter infrastructure reference model 2016 ,		1
6	Anomaly-based Intrusion Detection using Tree Augmented Naive Bayes 2021 ,		1

5	Towards Automated Attack Simulations of BPMN-based Processes 2021 ,		1
4	Two decades of cyberattack simulations: A systematic literature review. <i>Computers and Security</i> , 2022 , 116, 102681	4.9	1
3	Research communities in cyber security: A comprehensive literature review. <i>Computer Science Review</i> , 2021 , 42, 100431	8.3	0
2	Increasing software development efficiency and maintainability for complex industrial systems [A case study]. <i>Journal of Software: Evolution and Process</i> , 2013 , 25, 285-301	1	
1	Ethical Principles for Designing Responsible Offensive Cyber Security Training. <i>IFIP Advances in Information and Communication Technology</i> , 2021 , 21-39	0.5	