

# Robert Lagerström

## List of Publications by Year in Descending Order

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**Version:** 2024-04-24

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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	Two decades of cyberattack simulations: A systematic literature review. <i>Computers and Security</i> , <b>2022</b> , 116, 102681	4.9	1
75	VehicleLang: A probabilistic modeling and simulation language for modern vehicle IT infrastructures. <i>Computers and Security</i> , <b>2022</b> , 117, 102705	4.9	2
74	Anomaly-based Intrusion Detection using Tree Augmented Naive Bayes <b>2021</b> ,		1
73	Towards Automated Attack Simulations of BPMN-based Processes <b>2021</b> ,		1
72	A Method for Assigning Probability Distributions in Attack Simulation Languages. <i>Complex Systems Informatics and Modeling Quarterly</i> , <b>2021</b> , 55-77	0.9	2
71	Ethical Principles for Designing Responsible Offensive Cyber Security Training. <i>IFIP Advances in Information and Communication Technology</i> , <b>2021</b> , 21-39	0.5	
70	Integrating Security Behavior into Attack Simulations <b>2021</b> ,		2
69	Research communities in cyber security: A comprehensive literature review. <i>Computer Science Review</i> , <b>2021</b> , 42, 100431	8.3	0
68	powerLang: a probabilistic attack simulation language for the power domain. <i>Energy Informatics</i> , <b>2020</b> , 3,	2.8	9
67	Automating threat modeling using an ontology framework. <i>Cybersecurity</i> , <b>2020</b> , 3,	5	6
66	Threat Modeling and Attack Simulations of Connected Vehicles: Proof of Concept. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 272-287	0.3	2
65	A Systematic Literature Review of Information Sources for Threat Modeling in the Power Systems Domain. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 47-58	0.9	3
64	An Attack Simulation Language for the IT Domain. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 67-86	0.9	8
63	Threat modeling  A systematic literature review. <i>Computers and Security</i> , <b>2019</b> , 84, 53-69	4.9	51
62	Probabilistic Modeling and Simulation of Vehicular Cyber Attacks: An Application of the Meta Attack Language <b>2019</b> ,		13
61	Threat Modeling and Attack Simulations of Connected Vehicles: A Research Outlook <b>2019</b> ,		6
60	Conceptual Abstraction of Attack Graphs - A Use Case of securiCAD. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 186-202	0.9	2

59	A Framework for Automatic IT Architecture Modeling: Applying Truth Discovery. <i>Complex Systems Informatics and Modeling Quarterly</i> , <b>2019</b> , 20-56	0.9	2
58	A Study of Security Vulnerabilities and Software Weaknesses in Vehicles. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 204-218	0.9	5
57	Threat Modeling of Connected Vehicles: A privacy analysis and extension of vehicleLang <b>2019</b> ,		2
56	Creating Meta Attack Language Instances using ArchiMate: Applied to Electric Power and Energy System Cases <b>2019</b> ,		9
55	Re-using Enterprise Architecture Repositories for Agile Threat Modeling <b>2019</b> ,		3
54	Can the Common Vulnerability Scoring System be Trusted? A Bayesian Analysis. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2018</b> , 15, 1002-1015	3.9	27
53	A Meta Language for Threat Modeling and Attack Simulations <b>2018</b> ,		22
52	Load balancing of renewable energy: a cyber security analysis. <i>Energy Informatics</i> , <b>2018</b> , 1,	2.8	10
51	<b>2018</b> ,		9
50	Quantitative Information Security Risk Estimation Using Probabilistic Attack Graphs. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 37-52	0.9	1
49	Analyzing the Effectiveness of Attack Countermeasures in a SCADA System <b>2017</b> ,		6
48	Software Architecture Decoupling at Ericsson <b>2017</b> ,		2
47	A Study on Software Vulnerabilities and Weaknesses of Embedded Systems in Power Networks <b>2017</b> ,		5
46	In-Depth Modeling of the UNIX Operating System for Architectural Cyber Security Analysis <b>2017</b> ,		2
45	Exploring the Relationship Between Architecture Coupling and Software Vulnerabilities. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 53-69	0.9	5
44	Time between vulnerability disclosures: A measure of software product vulnerability. <i>Computers and Security</i> , <b>2016</b> , 62, 278-295	4.9	20
43	Analyzing attack resilience of an advanced meter infrastructure reference model <b>2016</b> ,		1
42	Modeling Enterprise Authorization: A Unified Metamodel and Initial Validation. <i>Complex Systems Informatics and Modeling Quarterly</i> , <b>2016</b> , 1-24	0.9	7

41	Product feature prioritization using the Hidden Structure method: A practical case at Ericsson <b>2016</b> ,		2
40	pwnPr3d: An Attack-Graph-Driven Probabilistic Threat-Modeling Approach <b>2016</b> ,		16
39	Automated architecture modeling for enterprise technology managemene using principles from data fusion: A security analysis case <b>2016</b> ,		6
38	Technology management through architecture reference models: A smart metering case <b>2016</b> ,		3
37	Automatic Probabilistic Enterprise IT Architecture Modeling: A Dynamic Bayesian Networks Approach <b>2016</b> ,		9
36	Securi CAD by Foreseeti: A CAD Tool for Enterprise Cyber Security Management <b>2015</b> ,		19
35	A Requirements Based Approach for Automating Enterprise IT Architecture Modeling Using Multiple Data Sources <b>2015</b> ,		12
34	Revealing Hidden Structures in Organizational Transformation $\square$ A Case Study. <i>Lecture Notes in Business Information Processing</i> , <b>2015</b> , 327-338	0.6	2
33	Quantifying Success Factors for IT Projects $\square$ An Expert-Based Bayesian Model. <i>Information Systems Management</i> , <b>2014</b> , 31, 21-36	3.1	34
32	Visualizing and Measuring Enterprise Application Architecture: An Exploratory Telecom Case <b>2014</b> ,		16
31	Visualizing and Measuring Software Portfolio Architecture: A Flexibility Analysis <b>2014</b> , 65-74		5
30	Extending a general theory of software to engineering <b>2014</b> ,		2
29	Automatic data collection for enterprise architecture models. <i>Software and Systems Modeling</i> , <b>2014</b> , 13, 825-841	1.9	34
28	Enterprise Architecture Evaluation Using Utility Theory <b>2013</b> ,		8
27	Increasing software development efficiency and maintainability for complex industrial systems $\square$ A case study. <i>Journal of Software: Evolution and Process</i> , <b>2013</b> , 25, 285-301	1	
26	Visualizing and Measuring Enterprise Architecture: An Exploratory BioPharma Case. <i>Lecture Notes in Business Information Processing</i> , <b>2013</b> , 9-23	0.6	13
25	Identifying factors affecting software development cost and productivity. <i>Software Quality Journal</i> , <b>2012</b> , 20, 395-417	1.2	19
24	Assessing Modifiability in Application Services Using Enterprise Architecture Models $\square$ A Case Study. <i>Lecture Notes in Business Information Processing</i> , <b>2012</b> , 162-181	0.6	3

23	Enterprise Architecture Management & Impact on Information Technology Success <b>2011</b> ,		12
22	Analysis of IT/Business Alignment Situations as a Precondition for the Design and Engineering of Situated IT/Business Alignment Solutions <b>2011</b> ,		8
21	A Tool for Enterprise Architecture Analysis Using the PRM Formalism. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 108-121	0.9	25
20	Trends in Enterprise Architecture Practice – A Survey. <i>Lecture Notes in Business Information Processing</i> , <b>2010</b> , 16-29	0.6	9
19	Mapping the Substation Configuration Language of IEC 61850 to ArchiMate <b>2010</b> ,		7
18	Enterprise Architecture Meta Models for IT/Business Alignment Situations <b>2010</b> ,		47
17	Architecture analysis of enterprise systems modifiability: a metamodel for software change cost estimation. <i>Software Quality Journal</i> , <b>2010</b> , 18, 437-468	1.2	19
16	Architecture analysis of enterprise systems modifiability – Models, analysis, and validation. <i>Journal of Systems and Software</i> , <b>2010</b> , 83, 1387-1403	3.3	34
15	Data Collection Prioritization for System Quality Analysis. <i>Electronic Notes in Theoretical Computer Science</i> , <b>2009</b> , 233, 29-42	0.7	17
14	EAF2- A Framework for Categorizing Enterprise Architecture Frameworks <b>2009</b> ,		16
13	A Tool for Enterprise Architecture Analysis of Maintainability <b>2009</b> ,		12
12	Decision support oriented Enterprise Architecture metamodel management using classification trees <b>2009</b> ,		3
11	A Method for Choosing Software Assessment Measures Using Bayesian Networks and Diagnosis <b>2009</b> ,		2
10	Enterprise Meta Modeling Methods – Combining a Stakeholder-Oriented and a Causality-Based Approach. <i>Lecture Notes in Business Information Processing</i> , <b>2009</b> , 381-393	0.6	13
9	Using Architectural Models to Predict the Maintainability of Enterprise Systems. <i>Software Maintenance and Reengineering (CSMR), Proceedings of the European Conference on</i> , <b>2008</b> ,		11
8	A Framework for Service Interoperability Analysis using Enterprise Architecture Models <b>2008</b> ,		19
7	A Bayesian network for IT governance performance prediction <b>2008</b> ,		8
6	A Framework for Assessing Business Value of Service Oriented Architectures <b>2007</b> ,		3

5	Enterprise architecture analysis with extended influence diagrams. <i>Information Systems Frontiers</i> , <b>2007</b> , 9, 163-180	4	93
4	Extended Influence Diagrams for System Quality Analysis. <i>Journal of Software</i> , <b>2007</b> , 2,	3	13
3	Extended Influence Diagrams for Enterprise Architecture Analysis. <i>2006 10th IEEE International Enterprise Distributed Object Computing Conference (EDOC106)</i> , <b>2006</b> ,		13
2	A Methodology for Operationalizing Enterprise Architecture and Evaluating Enterprise IT Flexibility. <i>SSRN Electronic Journal</i> ,	1	8
1	Cyber security threat modeling based on the MITRE Enterprise ATT&CK Matrix. <i>Software and Systems Modeling</i> ,1	1.9	12