

# Pontus Johnson

## List of Publications by Year in descending order

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Version: 2024-02-01

86  
papers

1,530  
citations

394421

19  
h-index

434195

31  
g-index

94  
all docs

94  
docs citations

94  
times ranked

698  
citing authors

#	ARTICLE	IF	CITATIONS
1	Research communities in cyber security: A comprehensive literature review. Computer Science Review, 2021, 42, 100431.	15.3	12
2	An Attack Simulation Language for the IT Domain. Lecture Notes in Computer Science, 2020, , 67-86.	1.3	20
3	Probabilistic Modeling and Simulation of Vehicular Cyber Attacks: An Application of the Meta Attack Language. , 2019, , .		18
4	Can the Common Vulnerability Scoring System be Trusted? A Bayesian Analysis. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 1002-1015.	5.4	60
5	A Meta Language for Threat Modeling and Attack Simulations. , 2018, , .		59
6	Empirical assessment of the accuracy of an interoperability prediction language. Information Systems Frontiers, 2017, 19, 819-833.	6.4	0
7	Quantitative Information Security Risk Estimation Using Probabilistic Attack Graphs. Lecture Notes in Computer Science, 2017, , 37-52.	1.3	3
8	In-Depth Modeling of the UNIX Operating System for Architectural Cyber Security Analysis. , 2017, , .		4
9	Automatic Design of Secure Enterprise Architecture: Work in Progress Paper. , 2017, , .		2
10	pwnPr3d: An Attack-Graph-Driven Probabilistic Threat-Modeling Approach. , 2016, , .		25
11	Automatic Probabilistic Enterprise IT Architecture Modeling: A Dynamic Bayesian Networks Approach. , 2016, , .		11
12	Analyzing Coordination and Flexibility in Organizations Using Enterprise Architecture. , 2016, , .		1
13	Time between vulnerability disclosures: A measure of software product vulnerability. Computers and Security, 2016, 62, 278-295.	6.0	29
14	Modeling and analyzing systems-of-systems in the multi-attribute prediction language (MAPL). , 2016, , .		4
15	The Tarpit â€“ A general theory of software engineering. Information and Software Technology, 2016, 70, 181-203.	4.4	12
16	Using enterprise architecture to analyse how organisational structure impact motivation and learning. Enterprise Information Systems, 2016, 10, 523-562.	4.7	6
17	Search-Based Design of Large Software Systems-of-Systems. , 2015, , .		0
18	Securi CAD by Foreseeti: A CAD Tool for Enterprise Cyber Security Management. , 2015, , .		33

#	ARTICLE	IF	CITATIONS
19	Integrated Metamodel for Security Analysis. , 2015, , .		2
20	Exploring Theory of Cognition for General Theory of Software Engineering. , 2015, , .		3
21	An architecture framework for enterprise IT service availability analysis. Software and Systems Modeling, 2014, 13, 1417-1445.	2.7	22
22	An architecture modeling framework for probabilistic prediction. Information Systems and E-Business Management, 2014, 12, 595-622.	3.7	18
23	A method for predicting the probability of business network profitability. Information Systems and E-Business Management, 2014, 12, 567-593.	3.7	11
24	How to Develop a General Theory of Software Engineering. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2014, 39, 23-25.	0.7	10
25	Enterprise Architecture Evaluation Using Utility Theory. , 2013, , .		13
26	Report on the first SEMAT workshop on general theory of software engineering (GTSE 2012). Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2013, 38, 26-28.	0.7	38
27	Report on the Second SEMAT Workshop on General Theory of Software Engineering (GTSE 2013). Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2013, 38, 47-50.	0.7	25
28	Modeling and Prediction of Monetary and Non-monetary Business Values. , 2013, , .		3
29	2<sup>nd</sup> SEMAT workshop on a general theory of software engineering (GTSE 2013). , 2013, , .		0
30	P2AMF: Predictive, Probabilistic Architecture Modeling Framework. Lecture Notes in Business Information Processing, 2013, , 104-117.	1.0	20
31	Re-founding software engineering “ SEMAT at the age of three (keynote abstract). , 2012, , .		2
32	Where's the Theory for Software Engineering?. IEEE Software, 2012, 29, 96-96.	1.8	73
33	A language for interoperability modeling and prediction. Computers in Industry, 2012, 63, 766-774.	9.9	20
34	Availability of enterprise IT systems: an expert-based Bayesian framework. Software Quality Journal, 2012, 20, 369-394.	2.2	23
35	Using enterprise architecture and technology adoption models to predict application usage. Journal of Systems and Software, 2012, 85, 1953-1967.	4.5	31
36	Predicting Interoperability in an Environmental Assurance System. , 2012, , 25-35.		0

#	ARTICLE	IF	CITATIONS
37	Data accuracy assessment using enterprise architecture. Enterprise Information Systems, 2011, 5, 37-58.	4.7	35
38	Message from the EDOC Program Co-Chairs and Workshops Chair. , 2011, , .		0
39	IT GOVERNANCE DECISION SUPPORT USING THE IT ORGANIZATION MODELING AND ASSESMENT TOOL. International Journal of Innovation and Technology Management, 2011, 08, 167-189.	1.4	3
40	A Modeling Language for Interoperability Assessments. Lecture Notes in Business Information Processing, 2011, , 61-74.	1.0	1
41	A Meta-language for Enterprise Architecture Analysis. Lecture Notes in Business Information Processing, 2011, , 511-525.	1.0	16
42	Architecture analysis of enterprise systems modifiability: a metamodel for software change cost estimation. Software Quality Journal, 2010, 18, 437-468.	2.2	20
43	Architecture analysis of enterprise systems modifiability “ Models, analysis, and validation. Journal of Systems and Software, 2010, 83, 1387-1403.	4.5	45
44	A probabilistic relational model for security risk analysis. Computers and Security, 2010, 29, 659-679.	6.0	74
45	Message from the General and Program Chairs. , 2010, , .		0
46	The Effect of IT Governance Maturity on IT Governance Performance. Information Systems Management, 2010, 27, 10-24.	5.7	75
47	Hybrid Probabilistic Relational Models for System Quality Analysis. , 2010, , .		10
48	A Tool for Interoperability Analysis of Enterprise Architecture Models using Pi-OCL. , 2010, , 81-90.		15
49	An enterprise architecture based method enabling quantified analysis of IT support system's impact on maintenance management. , 2009, , .		0
50	Introduction: Third Workshop on Trends in Enterprise Architecture Research (TEAR 2008). Lecture Notes in Computer Science, 2009, , 313-315.	1.3	2
51	Data Collection Prioritization for System Quality Analysis. Electronic Notes in Theoretical Computer Science, 2009, 233, 29-42.	0.9	21
52	A Tool for Enterprise Architecture Analysis of Maintainability. , 2009, , .		13
53	Cyber Security Risks Assessment with Bayesian Defense Graphs and Architectural Models. , 2009, , .		15
54	A formal method for cost and accuracy trade-off analysis in software assessment measures. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
55	A Method for Constructing a Company Specific Enterprise Architecture Model Framework. , 2009, , .		3
56	Decision support oriented Enterprise Architecture metamodel management using classification trees. , 2009, , .		5
57	An Enterprise Architecture framework for application consolidation in the Swedish Armed Forces. , 2009, , .		7
58	A Method for Choosing Software Assessment Measures Using Bayesian Networks and Diagnosis. , 2009, , .		2
59	Modeling the IT Impact on Organizational Structure. , 2009, , .		7
60	Enterprise Architecture Analysis for Data Accuracy Assessments. , 2009, , .		14
61	Report on the IFIP WG5.8 international workshop on enterprise interoperability (IWEI 2008). SIGMOD Record, 2009, 37, 112-114.	1.2	1
62	Barriers to Enterprise Interoperability. Lecture Notes in Business Information Processing, 2009, , 13-24.	1.0	21
63	Enterprise architecture: a framework supporting organizational performance analysis. , 2009, , .		3
64	Using Architectural Models to Predict the Maintainability of Enterprise Systems. Software Maintenance and Reengineering (CSMR), Proceedings of the European Conference on, 2008, , .	0.0	17
65	Combining Defense Graphs and Enterprise Architecture Models for Security Analysis. , 2008, , .		14
66	A Framework for Service Interoperability Analysis using Enterprise Architecture Models. , 2008, , .		23
67	Using Enterprise Architecture Models for System Quality Analysis. , 2008, , .		15
68	IT governance decision support using the IT Organization Modeling and Assessment Tool. , 2008, , .		7
69	The IT Organization Modeling and Assessment Tool: Correlating ITÂ Governance Maturity with the Effect of IT. , 2008, , .		25
70	A Bayesian network for IT governance performance prediction. , 2008, , .		14
71	IWEI Cover and Preface. , 2008, , .		0
72	Assessment of business process information security. International Journal of Business Process Integration and Management, 2008, 3, 118.	0.0	3

#	ARTICLE	IF	CITATIONS
73	Quantifying IT Impacts on Organizational Structure and Business Value with Extended Influence Diagrams. Lecture Notes in Business Information Processing, 2008, , 138-152.	1.0	16
74	Enterprise Architecture: A Framework Supporting System Quality Analysis. , 2007, , .		30
75	Factors in Assessing Performance of Wide Area Communication Networks for Distributed Control of Power Systems. , 2007, , .		5
76	Enterprise Architecture: A Framework Supporting System Quality Analysis. 2006 10th IEEE International Enterprise Distributed Object Computing Conference (EDOC'06), 2007, , .	0.0	0
77	A Tool for Enterprise Architecture Analysis. 2006 10th IEEE International Enterprise Distributed Object Computing Conference (EDOC'06), 2007, , .	0.0	0
78	In Search of a Unified Theory of Software Engineering. , 2007, , .		7
79	A Tool for Enterprise Architecture Analysis. , 2007, , .		53
80	Enterprise architecture analysis with extended influence diagrams. Information Systems Frontiers, 2007, 9, 163-180.	6.4	125
81	Formalizing Analysis of Enterprise Architecture. , 2007, , 35-44.		11
82	Extended Influence Diagrams for System Quality Analysis. Journal of Software, 2007, 2, .	0.6	18
83	Extended Influence Diagrams for Enterprise Architecture Analysis. 2006 10th IEEE International Enterprise Distributed Object Computing Conference (EDOC'06), 2006, , .	0.0	25
84	A survey on CIO concerns-do enterprise architecture frameworks support them?. Information Systems Frontiers, 2006, 8, 81-90.	6.4	80
85	Assessment of Enterprise Information Security - The Importance of Prioritization. , 0, , .		4
86	Report Workshop 5. , 0, , 179-183.		0