

# Ville Leppänen

## List of Publications by Year in descending order

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Version: 2024-02-01

162  
papers

890  
citations

949033

11  
h-index

939365

18  
g-index

168  
all docs

168  
docs citations

168  
times ranked

664  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracting LPL privacy policy purposes from annotated web service source code. Software and Systems Modeling, 2023, 22, 331-349.	2.2	2
2	Performance and programmability comparison of the thick control flow architecture and current multicore processors. Journal of Supercomputing, 2022, 78, 3152-3183.	2.4	5
3	Security Assurance in Agile Software Development Methods. , 2022, , 929-946.		0
4	Security in agile software development: A practitioner survey. Information and Software Technology, 2021, 131, 106488.	3.0	27
5	Internal interface diversification as a method against malware. Journal of Cyber Security Technology, 2021, 5, 15-40.	1.8	4
6	Fitting Security into Agile Software Development. , 2021, , 1026-1045.		2
7	A mixed methods probe into the direct disclosure of software vulnerabilities. Computers in Human Behavior, 2020, 103, 161-173.	5.1	6
8	A Survey on the Use of Data Points in IDS Research. Advances in Intelligent Systems and Computing, 2020, , 329-337.	0.5	2
9	Annotation-Based Static Analysis for Personal Data Protection. IFIP Advances in Information and Communication Technology, 2020, , 343-358.	0.5	4
10	A Proxy-Based Solution for Asynchronous Telemedical Systems. , 2020, , 948-962.		0
11	Extracting Layered Privacy Language Purposes from Web Services. , 2020, , .		1
12	The General Data Protection Regulation: Requirements, Architectures, and Constraints. , 2019, , .		12
13	Challenges in Agile Security Engineering. Advances in Information Security, Privacy, and Ethics Book Series, 2019, , 287-312.	0.4	3
14	Security Assurance in Agile Software Development Methods. Advances in Information Security, Privacy, and Ethics Book Series, 2019, , 47-68.	0.4	0
15	Protocol for digital intervention for effective health promotion of small childrenâ€”A cluster randomized trial. Journal of Advanced Nursing, 2018, 74, 1685-1699.	1.5	2
16	REPLICA MBTAC: multithreaded dual-mode processor. Journal of Supercomputing, 2018, 74, 1911-1933.	2.4	3
17	Technical debt and agile software development practices and processes: An industry practitioner survey. Information and Software Technology, 2018, 96, 141-160.	3.0	42
18	Aligning security objectives with agile software development. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
19	Towards Profiling Program Instances in Host-Based Intrusion Detection Systems by Recognizing Software Update Patterns. , 2018, , .		0
20	Crossing Cross-Domain Paths in the Current Web. , 2018, , .		3
21	Virtual Machine Introspection based Cloud Monitoring Platform. , 2018, , .		3
22	Fitting Security into Agile Software Development. International Journal of Systems and Software Security and Protection, 2018, 9, 47-70.	0.2	2
23	A Comparison of Online JavaScript Obfuscators. , 2018, , .		1
24	Mitigating Branch-Shadowing Attacks on Intel SGX using Control Flow Randomization. , 2018, , .		9
25	Invisible Pixels Are Dead, Long Live Invisible Pixels!. , 2018, , .		6
26	Supporting concurrent memory access in TCF processor architectures. Microprocessors and Microsystems, 2018, 63, 226-236.	1.8	2
27	Implementation of Multioperations in Thick Control Flow Processors. , 2018, , .		2
28	A case study on software vulnerability coordination. Information and Software Technology, 2018, 103, 239-257.	3.0	12
29	Diversification and obfuscation techniques for software security: A systematic literature review. Information and Software Technology, 2018, 104, 72-93.	3.0	55
30	A Honeypot Proxy Framework for Deceiving Attackers with Fabricated Content. Advances in Information Security, 2018, , 239-258.	0.9	5
31	Recognizing Dynamic Fields in Network Traffic with a Manually Assisted Solution. Advances in Intelligent Systems and Computing, 2018, , 208-217.	0.5	1
32	Toward Validation of Textual Information Retrieval Techniques for Software Weaknesses. Communications in Computer and Information Science, 2018, , 265-277.	0.4	8
33	On the Integrity of Cross-Origin JavaScripts. IFIP Advances in Information and Communication Technology, 2018, , 385-398.	0.5	3
34	Investigating the Effects of Agile Practices and Processes on Technical Debt - The Viewpoint of the Brazilian Software Industry. , 2018, , .		3
35	PEN: a power law-enhanced network design for high efficiency multicore architecture. Concurrency Computation Practice and Experience, 2017, 29, e3988.	1.4	1
36	Physical activity among children: objective measurements using Fitbit One® and ActiGraph. BMC Research Notes, 2017, 10, 161.	0.6	40

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37	A Survey on Fake Entities as a Method to Detect and Monitor Malicious Activity. , 2017, , .		15
38	A Survey on Anti-honeypot and Anti-introspection Methods. Advances in Intelligent Systems and Computing, 2017, , 125-134.	0.5	14
39	The Impact of Agile Software Development Approach on Software Developersâ€™ Responsibilities. Advances in Intelligent Systems and Computing, 2017, , 581-591.	0.5	4
40	Obfuscation and Diversification for Securing Cloud Computing. Lecture Notes in Computer Science, 2017, , 179-202.	1.0	1
41	Tightroping between APT and BCI in small enterprises. Information and Computer Security, 2017, 25, 226-239.	1.5	1
42	Busting a Myth. , 2017, , .		17
43	Investigating the Agility Bias in DNS Graph Mining. , 2017, , .		2
44	Whose Hands Are in the Finnish Cookie Jar?. , 2017, , .		4
45	Applications of Trusted Computing in Cloud Context. , 2017, , 449-465.		1
46	â€œYou have a Potential Hackerâ€™s Infectionâ€ A Study on Technical Support Scams. , 2017, , .		4
47	How PHP Releases Are Adopted in the Wild?. , 2017, , .		3
48	Practical challenges in building fake services with the record and play approach. , 2017, , .		2
49	Internal interface diversification with multiple fake interfaces. , 2017, , .		1
50	Supporting concurrent memory access in TCF-aware processor architectures. , 2017, , .		2
51	Mining social networks of open source CVE coordination. , 2017, , .		3
52	A Survey on Application Sandboxing Techniques. , 2017, , .		6
53	A Comparison of Record and Play Honeypot Designs. , 2017, , .		3
54	Global corrective action preventive action process and solution: insights at the Nokia Devices operation unit. International Journal of Productivity and Quality Management, 2017, 20, 29.	0.1	0

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55	Towards a language framework for thick control flows. , 2017, , .		4
56	Measuring Software Security from the Design of Software. , 2017, , .		0
57	Case Study of Agile Security Engineering. International Journal of Secure Software Engineering, 2017, 8, 43-57.	0.4	5
58	Analysis of Security in Modern Container Platforms. , 2017, , 351-369.		2
59	Modeling the delivery of security advisories and CVEs. Computer Science and Information Systems, 2017, 14, 537-555.	0.7	7
60	A Proxy-Based Solution for Asynchronous Telemedical Systems. International Journal of E-Health and Medical Communications, 2017, 8, 70-83.	1.4	1
61	The Transformation Challenge of IT Education and Training in Higher Education and Industry. , 2017, , .		2
62	Top Management Support for Software Cost Estimation. Lecture Notes in Computer Science, 2017, , 89-107.	1.0	0
63	Developing offshore outsourcing practices in a global selective outsourcing environment – the IT supplier’s viewpoint. , 2017, 5, 27-43.		2
64	The Impact of a Delayed Software Project on Product Launch Coordination: A Case Study. , 2016, , .		1
65	Compiler assisted dynamic allocation of finite hardware acceleration resources for parallel tasks. , 2016, , .		0
66	Software Security Considerations for IoT. , 2016, , .		5
67	A Post-Mortem Empirical Investigation of the Popularity and Distribution of Malware Files in the Contemporary Web-Facing Internet. , 2016, , .		2
68	Correlating file-based malware graphs against the empirical ground truth of DNS graphs. , 2016, , .		1
69	Applying Internal Interface Diversification to IoT Operating Systems. , 2016, , .		3
70	On the Design of a Simple Network Resolver for DNS Mining. , 2016, , .		1
71	Adoption and Suitability of Software Development Methods and Practices. , 2016, , .		11
72	An interface diversified honeypot for malware analysis. , 2016, , .		7

#	ARTICLE	IF	CITATIONS
73	The REPLICA on-chip network. , 2016, , .		2
74	Case Study of Security Development in an Agile Environment: Building Identity Management for a Government Agency. , 2016, , .		9
75	Modelling Propagation of Technical Debt. , 2016, , .		1
76	Interface diversification in IoT operating systems. , 2016, , .		7
77	Trading exploits online: A preliminary case study. , 2016, , .		5
78	Security in container-based virtualization through vTPM. , 2016, , .		14
79	Outline of a Thick Control Flow Architecture. , 2016, , .		8
80	Practical implications and requirements of diversifying interpreted languages. , 2016, , .		3
81	A Survey on Aims and Environments of Diversification and Obfuscation in Software Security. , 2016, , .		4
82	LUTMap: A Dynamic Heuristic Application Mapping Algorithm Based on Lookup Tables. Lecture Notes in Computer Science, 2016, , 134-146.	1.0	0
83	An outlook on the institutional evolution of the European Union cyber security apparatus. Government Information Quarterly, 2016, 33, 746-756.	4.0	14
84	The Black Mark beside My Name Server: Exploring the Importance of Name Server IP Addresses in Malware DNS Graphs. , 2016, , .		2
85	Exploring the Use of Deprecated PHP Releases in the Wild Internet. , 2016, , .		1
86	Exploring the clustering of software vulnerability disclosure notifications across software vendors. , 2016, , .		3
87	Analysing and Modelling the On-Chip Traffic of Parallel Applications. , 2016, , .		0
88	An efficient dynamic energy-aware application mapping algorithm for multicore processors. , 2016, , .		1
89	Software Vulnerability Life Cycles and the Age of Software Products: An Empirical Assertion with Operating System Products. Lecture Notes in Business Information Processing, 2016, , 207-218.	0.8	3
90	Evaluation Factors in Successful Global Selective Outsourcing Operations. International Journal of Services, Technology and Management, 2016, 1, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
91	Exploring the Stability of Software with Time-Series Cross-Sectional Data. , 2015, , .		1
92	A cache- and memory-aware mapping algorithm for big data applications. , 2015, , .		0
93	Reusability based program clone detection. , 2015, , .		3
94	Software evolution and time series volatility: an empirical exploration. , 2015, , .		1
95	Diversification of system calls in linux kernel. , 2015, , .		2
96	RefUTU. , 2015, , .		0
97	Time series trends in software evolution. Journal of Software: Evolution and Process, 2015, 27, 990-1015.	1.2	4
98	PDNOC: Partially diagonal network-on-chip for high efficiency multicore systems. Concurrency Computation Practice and Experience, 2015, 27, 1054-1067.	1.4	7
99	Performance tuning and sparse traversal technique for a cell-based fetch length algorithm on a GPU. Concurrency Computation Practice and Experience, 2015, 27, 5114-5133.	1.4	0
100	Event-driven asynchronous method calls with the D-Bus message system. Software - Practice and Experience, 2015, 45, 53-74.	2.5	0
101	Towards an extensible, modular compiler construction with scalable abstractions and types. , 2015, , .		0
102	Top management support in software cost estimation. International Journal of Managing Projects in Business, 2015, 8, 513-532.	1.3	10
103	A comparison of security assurance support of agile software development methods. , 2015, , .		7
104	Analysing emerging memory technologies for big data and signal processing applications. , 2015, , .		4
105	Security and Privacy in Cloud Computing via Obfuscation and Diversification: A Survey. , 2015, , .		8
106	Trio: A Triple Class On-chip Network Design for Efficient Multicore Processors. , 2015, , .		2
107	Security in the Internet of Things through obfuscation and diversification. , 2015, , .		21
108	EyeCloud: A BotCloud Detection System. , 2015, , .		7

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109	Diversifying SQL to Prevent Injection Attacks. , 2015, , .		7
110	The sigmoidal growth of operating system security vulnerabilities: An empirical revisit. Computers and Security, 2015, 55, 1-20.	4.0	15
111	Cache- and Communication-aware Application Mapping for Shared-cache Multicore Processors. Lecture Notes in Computer Science, 2015, , 55-67.	1.0	2
112	DBFS: Dual Best-First Search Mapping Algorithm for Shared-Cache Multicore Processors. Lecture Notes in Computer Science, 2015, , 185-198.	1.0	1
113	Diversification of System Calls in Linux Binaries. Lecture Notes in Computer Science, 2015, , 15-35.	1.0	10
114	Parallel Applications and On-chip Traffic Distributions: Observation, Implication and Modelling. , 2015, , .		1
115	The Theoretical Connections Between Agile Software Development and Innovative Climate. Communications in Computer and Information Science, 2015, , 281-292.	0.4	0
116	Examining Technical Debt Accumulation in Software Implementations. International Journal of Software Engineering and Its Applications, 2015, 9, 109-124.	0.2	1
117	Prototyping the MBTAC Processor for the REPLICA CMP. , 2014, , .		5
118	BDMap: A Heuristic Application Mapping Algorithm for the Big Data Era. , 2014, , .		2
119	Illustrating Software Modifiability – Capturing Cohesion and Coupling in a Force-Optimized Graph. , 2014, , .		1
120	Towards a diversification framework for operating system protection. , 2014, , .		7
121	Two-phase routing in three-dimensional blocked optical tori. , 2014, , .		0
122	Man-in-the-Browser Attacks in Modern Web Browsers. , 2014, , 469-480.		5
123	Exploration of a Heterogeneous Concentrated-Sparse On-Chip Interconnect for Energy Efficient Multicore Architecture. , 2014, , .		2
124	Technical Debt and the Effect of Agile Software Development Practices on It - An Industry Practitioner Survey. , 2014, , .		46
125	Promoting Children's Health with Digital Games: A Review of Reviews. Games for Health Journal, 2014, 3, 145-156.	1.1	45
126	Symbol diversification of linux binaries. , 2014, , .		13



#	ARTICLE	IF	CITATIONS
127	PDNOC: An Efficient Partially Diagonal Network-on-Chip Design. Lecture Notes in Computer Science, 2014, , 513-522.	1.0	1
128	Hardware and Software Support for NUMA Computing on Configurable Emulated Shared Memory Architectures. , 2013, , .		1
129	DSNOC: A Hybrid Dense-Sparse Network-on-Chip Architecture for Efficient Scalable Computing. , 2013, , .		4
130	Towards a parallel debugging framework for the massively multi-threaded, step-synchronous REPLICA architecture. , 2013, , .		2
131	DebtFlag: Technical debt management with a development environment integrated tool. , 2013, , .		32
132	An Extended PRAM-NUMA Model of Computation for TCF Programming. International Journal of Networking and Computing, 2013, 3, 98-115.	0.3	7
133	Work-optimal two-phase routing in a sparse optical torus. , 2012, , .		1
134	Preliminary analysis of feasible benchmark problems for the hybrid PRAM/NUMA REPLICA architecture. , 2012, , .		0
135	An Extended PRAM-NUMA Model of Computation for TCF Programming. , 2012, , .		1
136	Browser extension-based man-in-the-browser attacks against Ajax applications with countermeasures. , 2012, , .		18
137	Design of the Language Replica for Hybrid PRAM-NUMA Many-core Architectures. , 2012, , .		3
138	Routing in Coloured Sparse Optical Tori by Using Balanced WDM and Network Sparseness. International Journal of Distributed Systems and Technologies, 2012, 3, 52-62.	0.6	0
139	Cost of Sparse Mesh Layouts Supporting Throughput Computing. , 2011, , .		3
140	Balanced WDM and TDM Routing in Coloured Sparse Optical Tori. , 2011, , .		1
141	A layout for sparse cube-connected-cycles network. , 2011, , .		4
142	RISC-based moving threads multicore architecture. , 2011, , .		0
143	A parallel GPU implementation of an algorithm for determining directional distances. , 2011, , .		1
144	Thinning protocols for routing -relations over shared media. Journal of Parallel and Distributed Computing, 2010, 70, 783-789.	2.7	0

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145	Towards programming on the moving threads architecture. , 2010, , .		1
146	Work-optimal routing in wavelength-division multiplexed three-dimensional dense optical tori. , 2010, , .		4
147	Client-based cohesion metrics for Java programs. Science of Computer Programming, 2009, 74, 355-378.	1.5	14
148	Determining directional distances between points and shorelines using sweep line technique. International Journal of Geographical Information Science, 2009, 23, 355-368.	2.2	5
149	MVTsim. Proceedings of the International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing, 2009, , .	0.0	1
150	Outline of RISC-based core for multiprocessor on chip architecture supporting moving threads. Proceedings of the International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing, 2009, , .	0.0	3
151	Experiences with embedding MPL security monitors into Java programs. Proceedings of the International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing, 2009, , .	0.0	0
152	Embedding Rule-Based Security Monitors into Java Programs. , 2008, , .		1
153	A software metric for coherence of class roles in Java programs. , 2007, , .		2
154	A compact aspect-based security monitor for J2ME applications. , 2007, , .		3
155	External views on class cohesion. , 2007, , .		1
156	Device allocation on the SegBus platform based on communication scheduling cost minimization. , 2007, , .		6
157	Client based Object-Oriented Cohesion Metrics. Proceedings - IEEE Computer Society's International Computer Software and Applications Conference, 2007, , .	0.0	3
158	Quantifying distances from points to polygonsâ€™ applications in determining fetch in coastal environments. Computers and Geosciences, 2007, 33, 843-852.	2.0	12
159	Address-Free All-to-All Routing in Sparse Torus. Lecture Notes in Computer Science, 2007, , 200-205.	1.0	3
160	Constant thinning protocol for routing h-relations in complete networks. Lecture Notes in Computer Science, 1998, , 993-998.	1.0	2
161	Simulations of PRAM on complete optical networks. Lecture Notes in Computer Science, 1996, , 307-310.	1.0	3
162	Goodness of time-processor optimal PRAM simulations. Lecture Notes in Computer Science, 1996, , 303-306.	1.0	0