

# Katrina Falkner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7328669/publications.pdf>

Version: 2024-02-01

82  
papers

1,471  
citations

567281

15  
h-index

610901

24  
g-index

82  
all docs

82  
docs citations

82  
times ranked

971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Security Architecture Framework for Enterprises. Lecture Notes in Business Information Processing, 2021, , 883-904.	1.0	0
2	Adaptive Performance Anomaly Detection in Distributed Systems Using Online SVMs. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 928-941.	5.4	17
3	Towards Automatic High-Level Code Deployment on Reconfigurable Platforms: A Survey of High-Level Synthesis Tools and Toolchains. IEEE Access, 2020, 8, 174692-174722.	4.2	19
4	What Do Linguistic Expressions Tell Us about Learners's Confusion? A Domain-Independent Analysis in MOOCs. IEEE Transactions on Learning Technologies, 2020, 13, 878-888.	3.2	9
5	Enterprise Security Architecture: Mythology or Methodology?. , 2020, , .		1
6	Meaningful Assessment at Scale: Helping Instructors to Assess Online Learning. , 2020, , .		3
7	An International Benchmark Study of K-12 Computer Science Education in Schools. , 2019, , .		7
8	Detecting cognitive engagement using word embeddings within an online teacher professional development community. Computers and Education, 2019, 140, 103594.	8.3	27
9	Pedagogic Approaches. , 2019, , 445-480.		13
10	Equity and Diversity. , 2019, , 481-510.		10
11	Schools (K-12). , 2019, , 547-583.		5
12	Teacher Learning and Professional Development. , 2019, , 727-748.		1
13	An International Study Piloting the MEasuring TeacheR Enacted Computing Curriculum (METRECC) Instrument. , 2019, , .		24
14	A systematic review on literature-based discovery workflow. PeerJ Computer Science, 2019, 5, e235.	4.5	31
15	An International Comparison of K-12 Computer Science Education Intended and Enacted Curricula. , 2019, , .		35
16	Model-driven performance prediction of systems of systems. Software and Systems Modeling, 2018, 17, 415-441.	2.7	14
17	Supporting Computational Thinking Development in K-6. , 2018, , .		2
18	Directing Teacher Focus in Computer Science Online Learning Environments. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
19	An ecosystem approach to teacher professional development within computer science. <i>Computer Science Education</i> , 2018, 28, 303-344.	3.7	20
20	Assessing and improving the quality of security methodologies for distributed systems. <i>Journal of Software: Evolution and Process</i> , 2018, 30, e1980.	1.6	3
21	An adaptive framework for the detection of novel botnets. <i>Computers and Security</i> , 2018, 79, 148-161.	6.0	18
22	Systematic literature review: Self-Regulated Learning strategies using e-learning tools for Computer Science. <i>Computers and Education</i> , 2018, 123, 150-163.	8.3	106
23	Towards a socio-ecological framework to address gender inequity in computer science. <i>Computers and Education</i> , 2018, 126, 324-333.	8.3	26
24	Broadening participation not border protection: how universities can support women in computer science. <i>Journal of Higher Education Policy and Management</i> , 2017, 39, 406-422.	2.3	31
25	Broadening Participation in Computer Science. , 2017, , .		1
26	A comprehensive text analysis of lecture slides to generate concept maps. <i>Computers and Education</i> , 2017, 115, 96-113.	8.3	75
27	Discourse analysis to improve the effective engagement of MOOC videos. , 2017, , .		3
28	Reflecting on Three Offerings of a Community-Centric MOOC for K-6 Computer Science Teachers. , 2017, , .		42
29	Formal Forum Triage. , 2017, , .		0
30	CASL: A declarative domain specific language for modeling Complex Adaptive Systems. , 2016, , .		7
31	Amplifying side channels through performance degradation. , 2016, , .		51
32	Applying Validated Pedagogy to MOOCs. , 2016, , .		41
33	A Method to Analyze Computer Science Studentsâ€™ Teamwork in Online Collaborative Learning Environments. <i>ACM Transactions on Computing Education</i> , 2016, 16, 1-28.	3.5	28
34	A Framework for Topic Generation and Labeling from MOOC Discussions. , 2016, , .		48
35	A review of Computer Science resources for learning and teaching with K-12 computing curricula: an Australian case study. <i>Computer Science Education</i> , 2015, 25, 390-429.	3.7	22
36	Online Behavior Identification in Distributed Systems. , 2015, , .		5

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37	A case study in agility and evolving the long-lived software system. , 2015, , .		1
38	The Development of a Dashboard Tool for Visualising Online Teamwork Discussions. , 2015, , .		14
39	ASE: A comprehensive pattern-driven security methodology for distributed systems. Computer Standards and Interfaces, 2015, 41, 112-137.	5.4	28
40	Educational Question Answering Motivated by Question-Specific Concept Maps. Lecture Notes in Computer Science, 2015, , 13-22.	1.3	9
41	Task-Adapted Concept Map Scaffolding to Support Quizzes in an Online Environment. , 2015, , .		0
42	Evolution of Software Development Strategies. , 2015, , .		19
43	Gender Gap in Academia. , 2015, , .		36
44	Using Learning Analytics to Visualise Computer Science Teamwork. , 2015, , .		27
45	Initiatives to Increase Engagement in First-Year ICT. , 2015, , .		10
46	Security solution frames and security patterns for authorization in distributed, collaborative systems. Computers and Security, 2015, 55, 193-234.	6.0	15
47	A comprehensive pattern-oriented approach to engineering security methodologies. Information and Software Technology, 2015, 57, 217-247.	4.4	15
48	An Evaluation Methodology for Concept Maps Mined from Lecture Notes: An Educational Perspective. Communications in Computer and Information Science, 2015, , 68-83.	0.5	0
49	Can everybody learn to code?. , 2014, , .		6
50	Neo-piagetian theory as a guide to curriculum analysis. , 2014, , .		9
51	Identifying computer science self-regulated learning strategies. , 2014, , .		83
52	Experiences in course design using neo-piagetian theory. , 2014, , .		2
53	Increasing the effectiveness of automated assessment by increasing marking granularity and feedback units. , 2014, , .		27
54	Towards modelling and analysing non-functional properties of systems of systems. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
55	A Comprehensive Pattern-Driven Security Methodology for Distributed Systems. , 2014, , .		1
56	Architectural Support for Model-Driven Performance Prediction of Distributed Real-Time Embedded Systems of Systems. Lecture Notes in Computer Science, 2014, , 357-364.	1.3	5
57	A Model-Driven Engineering Method for DRE Defense Systems Performance Analysis and Prediction. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2014, , 301-326.	0.5	2
58	Building Consensus: Students' Cognitive and Metacognitive Behaviours during Wiki Construction. , 2013, , .		3
59	Computer Science Education: The First Threshold Concept. , 2013, , .		2
60	Combat management systems: Predicting performance early in the design lifecycle. , 2013, , .		2
61	Modeling scenarios for the performance prediction of distributed real-time embedded systems. , 2013, , .		4
62	Model-Driven Performance Prediction of Distributed Real-Time Embedded Defense Systems. , 2013, , .		7
63	Decomposing Distributed Software Architectures for the Determination and Incorporation of Security and Other Non-functional Requirements. , 2013, , .		5
64	Designing and supporting collaborative learning activities. , 2013, , .		1
65	Analysing computer science students' teamwork role adoption in an online self-organised teamwork activity. , 2013, , .		19
66	Collaborative learning and anxiety. , 2013, , .		24
67	Computer science students' causal attributions for successful and unsuccessful outcomes in programming assignments. , 2013, , .		14
68	Neo-piagetian Forms of Reasoning in Software Development Process Construction. , 2013, , .		3
69	S-RVM. , 2012, , .		0
70	Integrating communication skills into the computer science curriculum. , 2012, , .		19
71	Supporting and structuring "contributing student pedagogy" in Computer Science curricula. Computer Science Education, 2012, 22, 413-443.	3.7	29
72	Securing distributed systems using patterns: A survey. Computers and Security, 2012, 31, 681-703.	6.0	37

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73	Automated Extraction of Semantic Concepts from Semi-structured Data: Supporting Computer-Based Education through the Analysis of Lecture Notes. Lecture Notes in Computer Science, 2012, , 161-175.	1.3	10
74	Embedding Communication Skills in the Study of the Discipline. , 2012, , 94-114.		0
75	Developing authentic problem solving skills in introductory computing classes. , 2009, , .		46
76	Middleware for Distributed Video Surveillance. IEEE Distributed Systems Online, 2008, 9, 1-1.	0.5	28
77	Estimating camera overlap in large and growing networks. , 2008, , .		9
78	Topology Estimation for Thousand-Camera Surveillance Networks. , 2007, , .		25
79	Demonstration of Model-driven Performance Prediction of Distributed Real-time Embedded Systems of Systems. , 2007, , .		1
80	Middleware for video surveillance networks. , 2006, , .		15
81	Scalable Surveillance Software Architecture. , 2006, , .		11
82	Addressing the challenges of a new digital technologies curriculum: MOOCs as a scalable solution for teacher professional development. Research in Learning Technology, 0, 22, .	2.3	90