Vlado Stankovski

List of Publications by Citations

68 papers	1,006 citations	17 h-index	30 g-index
79 ext. papers	1,333 ext. citations	3.4 avg, IF	4.87 L-index

#	Paper	IF	Citations
68	Transformative effects of IoT, Blockchain and Artificial Intelligence on cloud computing: Evolution, vision, trends and open challenges. *Internet of Things (Netherlands)*, **2019**, 8, 100118	6.9	150
67	Trust management in a blockchain based fog computing platform with trustless smart oracles. *Future Generation Computer Systems*, **2019**, 101, 747-759	7.5	80
66	Monitoring self-adaptive applications within edge computing frameworks: A state-of-the-art review. *Journal of Systems and Software*, **2018**, 136, 19-38	3.3	65
65	Experiences in building a mOSAIC of clouds. *Journal of Cloud Computing: Advances, Systems and Applications*, **2013**, 2, 12	3.2	58
64	Grid-enabling data mining applications with DataMiningGrid: An architectural perspective. *Future Generation Computer Systems*, **2008**, 24, 259-279	7.5	58
63	A Capillary Computing Architecture for Dynamic Internet of Things: Orchestration of Microservices from Edge Devices to Fog and Cloud Providers. *Sensors*, **2018**, 18,	3.8	51
62	Supporting smart construction with dependable edge computing infrastructures and applications. *Automation in Construction*, **2018**, 85, 182-192	9.6	47
61	SWITCH workbench: A novel approach for the development and deployment of time-critical microservice-based cloud-native applications. *Future Generation Computer Systems*, **2019**, 99, 197-212	7.5	46
60	Holistic resource management for sustainable and reliable cloud computing: An innovative solution to global challenge. *Journal of Systems and Software*, **2019**, 155, 104-129	3.3	37
59	Dynamic Multi-level Auto-scaling Rules for Containerized Applications. *Computer Journal*, **2019**, 62, 174-197	1.5	31
58	Current and Future Challenges of Software Engineering for Services and Applications. *Procedia Computer Science*, **2016**, 97, 34-42	1.6	29
57	Modelling the population dynamics of red deer (Cervus elaphus L.) with regard to forest development. *Ecological Modelling*, **1998**, 108, 145-153	3	24
56	Developing and Operating Time Critical Applications in Clouds: The State of the Art and the SWITCH Approach. *Procedia Computer Science*, **2015**, 68, 17-28	1.6	22
55	QoS-Aware Orchestration of Network Intensive Software Utilities within Software Defined Data Centres. *Journal of Grid Computing*, **2018**, 16, 85-112	4.2	21
54	AI for next generation computing: Emerging trends and future directions. *Internet of Things (Netherlands)*, **2022**, 19, 100514	6.9	21
53	A Software Workbench for Interactive, Time Critical and Highly Self-Adaptive Cloud Applications (SWITCH) **2015**,		19
52	Formal Quality of Service assurances, ranking and verification of cloud deployment options with a probabilistic model checking method. *Information and Software Technology*, **2019**, 109, 14-25	3.4	18

51	Digging Deep into the Data Mine with DataMiningGrid. *IEEE Internet Computing*, **2008**, 12, 69-76	2.4	17
50	Architecture of an open knowledge base for sustainable buildings based on Linked Data technologies. *Automation in Construction*, **2013**, 35, 542-550	9.6	14
49	Dynamically reconfigurable workflows for time-critical applications **2015**,		14
48	Building applications for smart and safe construction with the DECENTER Fog Computing and Brokerage Platform. *Automation in Construction*, **2021**, 124, 103562	9.6	13
47	Smart Contracts for Service-Level Agreements in Edge-to-Cloud Computing. *Journal of Grid Computing*, **2020**, 18, 673-690	4.2	11
46	Application of Decision Trees to Smart Homes. *Lecture Notes in Computer Science*, **2006**, 132-145	0.9	11
45	A review of technologies and applications for smart construction. *Proceedings of the Institution of Civil Engineers: Civil Engineering*, **2019**, 172, 83-87	0.4	9
44	Improving the performance of Federated Digital Library services. *Future Generation Computer Systems*, **2008**, 24, 824-832	7.5	9
43	A grid-based architecture for personalized federation of digital libraries. *Library Collections Acquisitions and Technical Services*, **2006**, 30, 139-153		9
42	**2019**,		7
41	Towards Cloud-enabled Business Process Management Based on Patterns, Rules and Multiple Models **2012**,		7
40	A grid-based architecture for personalized federation of digital libraries. *Library Collections Acquisitions and Technical Services*, **2006**, 30, 139-153		7
39	Implementing time-critical functionalities with a distributed adaptive container architecture **2016**,		7
38	Auto-scaling Applications in Edge Computing **2017**,		6
37	Developing a Model Driven Approach for engineering applications based on mOSAIC. *Cluster Computing*, **2014**, 17, 101-110	2.1	6
36	Workflows in a Dashboard: A New Generation of Usability **2014**,		6
35	A provenance data management system for improving the product modelling process. *Automation in Construction*, **2007**, 16, 485-497	9.6	6
34	Using the mOSAIC's semantic engine to design and develop civil engineering cloud applications **2012**,		5

33	Multi-objective Middleware for Distributed VMI Repositories in Federated Cloud Environment. *Scalable Computing*, **2016**, 17,	2.4	5
32	Guest Editors Introduction: Special Issue on Storage for the Big Data Era. *Journal of Grid Computing* , **2018**, 16, 161-163	4.2	4
31	An equation-discovery approach to earthquake-ground-motion prediction. *Engineering Applications of Artificial Intelligence*, **2013**, 26, 1339-1347	7.2	4
30	Incremental Learning from Multi-level Monitoring Data and Its Application to Component Based Software Engineering **2017**,		4
29	Bipolar versus total hip endoprosthesis: functional results. *Archives of Orthopaedic and Trauma Surgery*, **2000**, 120, 259-61	3.6	4
28	Information Modelling and Semantic Linking for a Software Workbench for Interactive, Time Critical and Self-Adaptive Cloud Applications **2016**,		3
27	Using Constraint-Based Reasoning for Multi-objective Optimisation of the ENTICE Environment **2016**,		3
26	Blockchain Enabled Distributed Storage and Sharing of Personal Data Assets **2020**,		2
25	SWITCH-ing from Multi-Tenant to Event-Driven Videoconferencing Services **2017**,		2
24	A Network Edge Monitoring Approach for Real-Time Data Streaming Applications. *Lecture Notes in Computer Science*, **2017**, 293-303	0.9	2
23	Quality of Service Models for Microservices and Their Integration into the SWITCH IDE **2017**,		2
22	Non-functional requirements optimisation for multi-tier cloud applications: An early warning system case study **2017**,		2
21	Solving Solid and Fluid Mechanics Problems in the Cloud with mOSAIC. *Computing in Science and Engineering*, **2014**, 16, 68-77	1.5	2
20	A Sustainable Building Application Design Based on the mOSAIC API and Platform **2012**,		2
19	Enabling Legacy Engineering Applications for Cloud Computing: Experience with the mOSAIC API and Platform **2012**,		2
18	Special section: Data mining in grid computing environments. *Future Generation Computer Systems*, **2007**, 23, 31-33	7.5	2
17	Towards an Environment for Efficient and Transparent Virtual Machine Operations: The ENTICE Approach **2016**,		2
16	Towards an Environment Supporting Resilience, High-Availability, Reproducibility and Reliability for Cloud Applications **2015**,		2

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15	Multi-objective Optimization Framework for VMI Distribution in Federated Cloud Repositories. *Lecture Notes in Computer Science*, **2017**, 236-247	0.9	2
14	Distributed environment for efficient virtual machine image management in federated Cloud architectures. *Concurrency Computation Practice and Experience*, **2018**, 30, e4220	1.4	2
13	Use Cases towards a Decentralized Repository for Transparent and Efficient Virtual Machine Operations **2017**,		1
12	Quality of Service-aware matchmaking for adaptive microservice-based applications. *Concurrency Computation Practice and Experience*, **2020**, 33, e6120	1.4	1
11	Quality of Service Assurance for Internet of Things Time-Critical Cloud Applications: Experience with the Switch and Entice Projects **2017**,		1
10	Algorithms for a Smart Construction Environment. *Lecture Notes in Computer Science*, **2020**, 1-14	0.9	1
9	A New Blockchain Ecosystem for Trusted, Traceable and Transparent Ontological Knowledge Management. *Lecture Notes in Computer Science*, **2021**, 93-105	0.9	1
8	Developing, Provisioning and Controlling Time Critical Applications in Cloud. *Communications in Computer and Information Science*, **2018**, 169-174	0.3	1
7	A Decentralized AI Data Management System In Federated Learning **2020**,		1
6	Semantic approach for multi-objective optimisation of the ENTICE distributed Virtual Machine and container images repository. *Concurrency Computation Practice and Experience*, **2019**, 31, e4264	1.4	1
5	Smart Contracts for Container Based Video Conferencing Services: Architecture and Implementation. *Lecture Notes in Computer Science*, **2019**, 219-233	0.9	0
4	Pareto-Optimised Fog Storage Services with Novel Service-Level Agreement Specification. *Applied Sciences (Switzerland)*, **2022**, 12, 3308	2.6	0
3	Dependability of Container-Based Data-Centric Systems **2018**, 7-27		
2	Smart Contract for Cross-Border AI Model Management. *Lecture Notes in Computer Science*, **2021**, 215-222	0.9	
1	Developing Context-Free Grammars for Equation Discovery: An Application in Earthquake Engineering. *Studies in Computational Intelligence*, **2013**, 197-203	0.8	