

# Vlado Stankovski

## List of Publications by Year in Descending Order

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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.

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	Pareto-Optimised Fog Storage Services with Novel Service-Level Agreement Specification. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3308	2.6	0
67	AI for next generation computing: Emerging trends and future directions. <i>Internet of Things (Netherlands)</i> , <b>2022</b> , 19, 100514	6.9	21
66	Smart Contract for Cross-Border AI Model Management. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 215-222	9	9
65	A New Blockchain Ecosystem for Trusted, Traceable and Transparent Ontological Knowledge Management. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 93-105	0.9	1
64	Building applications for smart and safe construction with the DECENTER Fog Computing and Brokerage Platform. <i>Automation in Construction</i> , <b>2021</b> , 124, 103562	9.6	13
63	Quality of Service-aware matchmaking for adaptive microservice-based applications. <i>Concurrency Computation Practice and Experience</i> , <b>2020</b> , 33, e6120	1.4	1
62	Blockchain Enabled Distributed Storage and Sharing of Personal Data Assets <b>2020</b> ,		2
61	Algorithms for a Smart Construction Environment. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 1-14	0.9	1
60	Smart Contracts for Service-Level Agreements in Edge-to-Cloud Computing. <i>Journal of Grid Computing</i> , <b>2020</b> , 18, 673-690	4.2	11
59	A Decentralized AI Data Management System In Federated Learning <b>2020</b> ,		1
58	Transformative effects of IoT, Blockchain and Artificial Intelligence on cloud computing: Evolution, vision, trends and open challenges. <i>Internet of Things (Netherlands)</i> , <b>2019</b> , 8, 100118	6.9	150
57	Holistic resource management for sustainable and reliable cloud computing: An innovative solution to global challenge. <i>Journal of Systems and Software</i> , <b>2019</b> , 155, 104-129	3.3	37
56	SWITCH workbench: A novel approach for the development and deployment of time-critical microservice-based cloud-native applications. <i>Future Generation Computer Systems</i> , <b>2019</b> , 99, 197-212	7.5	46
55	A review of technologies and applications for smart construction. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , <b>2019</b> , 172, 83-87	0.4	9
54	Dynamic Multi-level Auto-scaling Rules for Containerized Applications. <i>Computer Journal</i> , <b>2019</b> , 62, 174-197	13	31
53	Trust management in a blockchain based fog computing platform with trustless smart oracles. <i>Future Generation Computer Systems</i> , <b>2019</b> , 101, 747-759	7.5	80
52	<b>2019</b> ,		7

51	Smart Contracts for Container Based Video Conferencing Services: Architecture and Implementation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 219-233	0.9	0
50	Formal Quality of Service assurances, ranking and verification of cloud deployment options with a probabilistic model checking method. <i>Information and Software Technology</i> , <b>2019</b> , 109, 14-25	3.4	18
49	Semantic approach for multi-objective optimisation of the ENTICE distributed Virtual Machine and container images repository. <i>Concurrency Computation Practice and Experience</i> , <b>2019</b> , 31, e4264	1.4	1
48	Dependability of Container-Based Data-Centric Systems <b>2018</b> , 7-27		
47	Guest Editors Introduction: Special Issue on Storage for the Big Data Era. <i>Journal of Grid Computing</i> , <b>2018</b> , 16, 161-163	4.2	4
46	Monitoring self-adaptive applications within edge computing frameworks: A state-of-the-art review. <i>Journal of Systems and Software</i> , <b>2018</b> , 136, 19-38	3.3	65
45	Developing, Provisioning and Controlling Time Critical Applications in Cloud. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 169-174	0.3	1
44	QoS-Aware Orchestration of Network Intensive Software Utilities within Software Defined Data Centres. <i>Journal of Grid Computing</i> , <b>2018</b> , 16, 85-112	4.2	21
43	Supporting smart construction with dependable edge computing infrastructures and applications. <i>Automation in Construction</i> , <b>2018</b> , 85, 182-192	9.6	47
42	Distributed environment for efficient virtual machine image management in federated Cloud architectures. <i>Concurrency Computation Practice and Experience</i> , <b>2018</b> , 30, e4220	1.4	2
41	A Capillary Computing Architecture for Dynamic Internet of Things: Orchestration of Microservices from Edge Devices to Fog and Cloud Providers. <i>Sensors</i> , <b>2018</b> , 18,	3.8	51
40	Use Cases towards a Decentralized Repository for Transparent and Efficient Virtual Machine Operations <b>2017</b> ,		1
39	Auto-scaling Applications in Edge Computing <b>2017</b> ,		6
38	SWITCH-ing from Multi-Tenant to Event-Driven Videoconferencing Services <b>2017</b> ,		2
37	Incremental Learning from Multi-level Monitoring Data and Its Application to Component Based Software Engineering <b>2017</b> ,		4
36	A Network Edge Monitoring Approach for Real-Time Data Streaming Applications. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 293-303	0.9	2
35	Quality of Service Models for Microservices and Their Integration into the SWITCH IDE <b>2017</b> ,		2
34	Quality of Service Assurance for Internet of Things Time-Critical Cloud Applications: Experience with the Switch and Entice Projects <b>2017</b> ,		1

33	Non-functional requirements optimisation for multi-tier cloud applications: An early warning system case study <b>2017</b> ,		2
32	Multi-objective Optimization Framework for VMI Distribution in Federated Cloud Repositories. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 236-247	0.9	2
31	Current and Future Challenges of Software Engineering for Services and Applications. <i>Procedia Computer Science</i> , <b>2016</b> , 97, 34-42	1.6	29
30	Information Modelling and Semantic Linking for a Software Workbench for Interactive, Time Critical and Self-Adaptive Cloud Applications <b>2016</b> ,		3
29	Towards an Environment for Efficient and Transparent Virtual Machine Operations: The ENTICE Approach <b>2016</b> ,		2
28	Multi-objective Middleware for Distributed VMI Repositories in Federated Cloud Environment. <i>Scalable Computing</i> , <b>2016</b> , 17,	2.4	5
27	Using Constraint-Based Reasoning for Multi-objective Optimisation of the ENTICE Environment <b>2016</b> ,		3
26	Implementing time-critical functionalities with a distributed adaptive container architecture <b>2016</b> ,		7
25	A Software Workbench for Interactive, Time Critical and Highly Self-Adaptive Cloud Applications (SWITCH) <b>2015</b> ,		19
24	Developing and Operating Time Critical Applications in Clouds: The State of the Art and the SWITCH Approach. <i>Procedia Computer Science</i> , <b>2015</b> , 68, 17-28	1.6	22
23	Dynamically reconfigurable workflows for time-critical applications <b>2015</b> ,		14
22	Towards an Environment Supporting Resilience, High-Availability, Reproducibility and Reliability for Cloud Applications <b>2015</b> ,		2
21	Developing a Model Driven Approach for engineering applications based on mOSAIC. <i>Cluster Computing</i> , <b>2014</b> , 17, 101-110	2.1	6
20	Solving Solid and Fluid Mechanics Problems in the Cloud with mOSAIC. <i>Computing in Science and Engineering</i> , <b>2014</b> , 16, 68-77	1.5	2
19	Workflows in a Dashboard: A New Generation of Usability <b>2014</b> ,		6
18	Experiences in building a mOSAIC of clouds. <i>Journal of Cloud Computing: Advances, Systems and Applications</i> , <b>2013</b> , 2, 12	3.2	58
17	An equation-discovery approach to earthquake-ground-motion prediction. <i>Engineering Applications of Artificial Intelligence</i> , <b>2013</b> , 26, 1339-1347	7.2	4
16	Architecture of an open knowledge base for sustainable buildings based on Linked Data technologies. <i>Automation in Construction</i> , <b>2013</b> , 35, 542-550	9.6	14

15	Developing Context-Free Grammars for Equation Discovery: An Application in Earthquake Engineering. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 197-203	0.8	
14	A Sustainable Building Application Design Based on the mOSAIC API and Platform <b>2012</b> ,		2
13	Towards Cloud-enabled Business Process Management Based on Patterns, Rules and Multiple Models <b>2012</b> ,		7
12	Enabling Legacy Engineering Applications for Cloud Computing: Experience with the mOSAIC API and Platform <b>2012</b> ,		2
11	Using the mOSAIC's semantic engine to design and develop civil engineering cloud applications <b>2012</b> ,		5
10	Digging Deep into the Data Mine with DataMiningGrid. <i>IEEE Internet Computing</i> , <b>2008</b> , 12, 69-76	2.4	17
9	Improving the performance of Federated Digital Library services. <i>Future Generation Computer Systems</i> , <b>2008</b> , 24, 824-832	7.5	9
8	Grid-enabling data mining applications with DataMiningGrid: An architectural perspective. <i>Future Generation Computer Systems</i> , <b>2008</b> , 24, 259-279	7.5	58
7	Special section: Data mining in grid computing environments. <i>Future Generation Computer Systems</i> , <b>2007</b> , 23, 31-33	7.5	2
6	A provenance data management system for improving the product modelling process. <i>Automation in Construction</i> , <b>2007</b> , 16, 485-497	9.6	6
5	A grid-based architecture for personalized federation of digital libraries. <i>Library Collections Acquisitions and Technical Services</i> , <b>2006</b> , 30, 139-153		7
4	A grid-based architecture for personalized federation of digital libraries. <i>Library Collections Acquisitions and Technical Services</i> , <b>2006</b> , 30, 139-153		9
3	Application of Decision Trees to Smart Homes. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 132-145	0.9	11
2	Bipolar versus total hip endoprosthesis: functional results. <i>Archives of Orthopaedic and Trauma Surgery</i> , <b>2000</b> , 120, 259-61	3.6	4
1	Modelling the population dynamics of red deer ( <i>Cervus elaphus</i> L.) with regard to forest development. <i>Ecological Modelling</i> , <b>1998</b> , 108, 145-153	3	24