Pal Varga

List of Publications by Year
in descending order

73	1,072	759055 12	752573 20
papers	citations	h-index	g-index

77	77	77	852
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	5G public network integration for a real-life PROFINET application. , 2022, , .		1
2	Positioning in 5G and 6G Networksâ€"A Survey. Sensors, 2022, 22, 4757.	2.1	38
3	Dynamic Multilevel Workflow Management Concept for Industrial IoT Systems. IEEE Transactions on Automation Science and Engineering, 2021, 18, 1354-1366.	3.4	17
4	Motorway Measurement Campaign to Support R&D Activities in the Field of Automated Driving Technologies. Sensors, 2021, 21, 2169.	2.1	14
5	System of Systems Lifecycle Managementâ€"A New Concept Based on Process Engineering Methodologies. Applied Sciences (Switzerland), 2021, 11, 3386.	1.3	14
6	A compact 5G Non-Public Network. , 2021, , .		2
7	Reliable Identification Schemes for Asset and Production Tracking in Industry 4.0. Sensors, 2020, 20, 3709.	2.1	52
8	From Models to Management and Back: Towards a System-of-Systems Engineering Toolchain. , 2020, , .		8
9	The Pursuit of NB-IoT Transmission Rate Limitations by Real-life Network Measurements. , 2020, , .		2
10	Improving the Maintenance of Railway Switches through Proactive Approach. Electronics (Switzerland), 2020, 9, 1260.	1.8	7
11	Towards Traffic Identification and Modeling for 5G Application Use-Cases. Electronics (Switzerland), 2020, 9, 640.	1.8	15
12	Practical 5G KPI Measurement Results on a Non-Standalone Architecture. , 2020, , .		25
13	User Group Behavioural Pattern in a Cellular Mobile Network for 5G Use-cases. , 2020, , .		3
14	Achieving Flexible Digital Production with the Arrowhead Workflow Choreographer. , 2020, , .		3
15	5G support for Industrial IoT Applicationsâ€" Challenges, Solutions, and Research gaps. Sensors, 2020, 20, 828.	2.1	139
16	5G-Enabled Autonomous Driving Demonstration with a V2X Scenario-in-the-Loop Approach. Sensors, 2020, 20, 7344.	2.1	24
17	Native OPC UA Handling and IEC 61499 PLC Integration within the Arrowhead Framework. , 2020, , .		4
18	A Governance Model for Local and Interconnecting Arrowhead Clouds. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Investigating the network traffic of Industry 4.0 applications â€“ methodology and initial results. , 2020, , .		5
20	Asset and Production Tracking through Value Chains for Industry 4.0 using the Arrowhead Framework. , 2019, , .		7
21	Improving the performance of a Publish-Subscribe message broker. , 2019, , .		2
22	Distinguishing 5G IoT Use-Cases through Analyzing Signaling Traffic Characteristics. , 2019, , .		5
23	Supply Chain Management and Logistics 4.0 - A Study on Arrowhead Framework Integration. , 2019, , .		14
24	Data-driven Workflow Management by utilising BPMN and CPN in IIoT Systems with the Arrowhead Framework. , 2019, , .		17
25	Monitoring of Production Processes and the Condition of the Production Equipment through the Internet. , 2019, , .		7
26	QoS Guarantees for Industrial IoT Applications over LTE - a Feasibility Study. , 2019, , .		5
27	A Methodology for the Design of Safety-Compliant and Secure Communication of Autonomous Vehicles. IEEE Access, 2019, 7, 125022-125037.	2.6	14
28	Maintenance 4.0 World of Integrated Information. Proceedings of the I-ESA Conference, 2019, , 67-78.	0.4	3
29	Improving and modeling the performance of a Publish-Subscribe message broker. , 2019, , .		3
30	Communication Challenges and Solutions between Heterogeneous Industrial IoT Systems. , 2019, , .		7
31	Supporting Digital Production, Product Lifecycle and Supply Chain Management in Industry 4.0 by the Arrowhead Framework â€“ a Survey. , 2019, , .		14
32	On the Security Threat of Abandoned and Zombie Cellular IoT Devices. , 2019, , .		3
33	FPGA-Assisted DPI Systems: 100 Gbit/s and Beyond. IEEE Communications Surveys and Tutorials, 2019, 21, 2015-2040.	24.8	11
34	Indexing current advances with DOI â€“ at the Infocommunications Journal. Infocommunications Journal, 2019, 11, 1-1.	0.6	0
35	Assembling SIP-based VoLTE Call Data Records based on network monitoring. Telecommunication Systems, 2018, 68, 393-407.	1.6	5
36	Data-Driven Workflow Execution in Service Oriented IoT Architectures. , 2018, , .		8

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37	Integrated Infrastructure for Electro Mobility Powered by the Arrowhead Framework. IEEE Access, 2018, 6, 73210-73222.	2.6	6
38	IoT Device Lifecycle â€“ A Generic Model and a Use Case for Cellular Mobile Networks. , 2018, , .		9
39	Security and safety risk analysis of vision guided autonomous vehicles. , 2018, , .		11
40	The MANTIS Architecture for Proactive Maintenance. , 2018, , .		11
41	Secure and trusted inter-cloud communications in the arrowhead framework. , 2018, , .		21
42	Detecting DDoS attacks within milliseconds by using FPGA-based hardware acceleration. , 2018, , .		12
43	Low-reaction time FPGA-based DDoS detector. , 2018, , .		6
44	Complex solution for VoLTE monitoring and cross-protocol data analysis. , 2018, , .		2
45	Proactive Maintenance of Railway Switches. , 2018, , .		11
46	Inter-Cloud Communication Through Gatekeepers to Support IoT Service Interaction in the Arrowhead Framework. Wireless Personal Communications, 2017, 96, 3515-3532.	1.8	4
47	Combining Safety and Security Analysis for Industrial Collaborative Automation Systems. Lecture Notes in Computer Science, 2017, , 187-198.	1.0	13
48	Security threats and issues in automation IoT. , 2017, , .		69
49	Making system of systems interoperable â€“ The core components of the arrowhead framework. Journal of Network and Computer Applications, 2017, 81, 85-95.	5.8	114
50	Real-time security services for SDN-based datacenters. , 2017, , .		10
51	Assembling VoLTE CDRs based on network monitoring - challenges with fragmented information. , 2017, , .		1
52	3 The Arrowhead Framework architecture. , 2017, , 43-88.		21
53	4 Arrowhead Framework core systems and services. , 2017, , 89-138.		5
54	Enabling IoT automation using local clouds. , 2016, , .		34

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55	Enhancements of the Arrowhead Framework to refine inter-cloud service interactions. , 2016, , .		19
56	Optimising maintenance: What are the expectations for Cyber Physical Systems. , 2016, , .		20
57	Organizing IoT Systems-of-Systems from standardized engineering data. , 2016, , .		7
58	100 Gbit/s network monitoring with on-the-fly reconfigurable rules for multi-encapsulated packets. , 2015, , .		0
59	C-GEP: 100 Gbit/s capable, FPGA-based, reconfigurable networking equipment. , 2015, , .		7
60	Network initiated Wi-Fi â€" LTE handovers with multipath TCP. , 2015, , .		0
61	Towards estimating video QoE based on frame loss statistics of the video streams. , 2015, , .		10
62	Translation error handling for multi-protocol SOA systems. , 2015, , .		18
63	C-GEP: Adaptive network management with reconfigurable hardware. , 2015, , .		5
64	C-GEP: Platform demo for 100 Gbit/s network monitoring. , 2015, , .		0
65	The arrowhead approach for SOA application development and documentation. , 2014, , .		55
66	A case study on correlating video QoS and QoE. , 2014, , .		12
67	LTE core network testing using generated traffic based on models from real-life data. , 2013, , .		2
68	A flexible switch-router with reconfigurable forwarding and Linux-based Control Element. , 2012, , .		3
69	A Low Power, Programmable Networking Platform and Development Environment. , 2011, , 19-36.		3
70	Dependability of a Network Monitoring Hardware. , 2010, , .		1
71	Integration of service-level monitoring with fault management for end-to-end multi-provider ethernet services. IEEE Transactions on Network and Service Management, 2007, 4, 28-38.	3.2	17
72	Towards Estimating Quality of Experience with Passive Bottleneck Detection Metrics. , 2007, , 115-125.		1

#	Article	IF	Citations
73	Analyzing group behavior patterns in a cellular mobile network for 5G useâ€cases. International Journal of Network Management, 0, , e2157.	1.4	1