

# Manuel Daz

## 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.

65  
papers

1,655  
citations

12  
h-index

40  
g-index

74  
ext. papers

2,097  
ext. citations

3.1  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
65	Kafka-ML: Connecting the data stream with ML/AI frameworks. <i>Future Generation Computer Systems</i> , <b>2022</b> , 126, 15-33	7.5	3
64	Facilitating the monitoring and management of structural health in civil infrastructures with an Edge/Fog/Cloud architecture. <i>Computer Standards and Interfaces</i> , <b>2021</b> , 81, 103600	3.5	2
63	Managing and Deploying Distributed and Deep Neural Models Through Kafka-ML in the Cloud-to-Things Continuum. <i>IEEE Access</i> , <b>2021</b> , 9, 125478-125495	3.5	0
62	An open source framework based on Kafka-ML for Distributed DNN inference over the Cloud-to-Things continuum. <i>Journal of Systems Architecture</i> , <b>2021</b> , 118, 102214	5.5	3
61	Integrating Blockchain in Safety-Critical Systems: An Application to the Nuclear Industry. <i>IEEE Access</i> , <b>2020</b> , 8, 190605-190619	3.5	4
60	Performance analysis of wireless sensor networks and priority queueing systems. <i>International Journal of Sensor Networks</i> , <b>2019</b> , 30, 126	0.8	2
59	PICO: A platform independent communications middleware for heterogeneous devices in smart grids. <i>Computer Standards and Interfaces</i> , <b>2019</b> , 65, 1-14	3.5	3
58	Wireless sensor networks and structural health monitoring: Experiences with slab track infrastructures. <i>International Journal of Distributed Sensor Networks</i> , <b>2019</b> , 15, 155014771982600	1.7	5
57	From the Edge to the Cloud: Enabling Reliable IoT Applications <b>2019</b> ,		2
56	Middleware and communication technologies for structural health monitoring of critical infrastructures: A survey. <i>Computer Standards and Interfaces</i> , <b>2018</b> , 56, 83-100	3.5	35
55	Appdaptivity: An Internet of Things Device-Decoupled System for Portable Applications in Changing Contexts. <i>Sensors</i> , <b>2018</b> , 18,	3.8	2
54	On blockchain and its integration with IoT. Challenges and opportunities. <i>Future Generation Computer Systems</i> , <b>2018</b> , 88, 173-190	7.5	769
53	Run-time deployment and management of CoAP resources for the Internet of Things. <i>International Journal of Distributed Sensor Networks</i> , <b>2017</b> , 13, 155014771769896	1.7	3
52	Developing a Content Distribution System over a Secure Peer-to-Peer Middleware <b>2017</b> , 211-239		
51	Impact of Middleware Design on the Communication Performance. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 505-519	0.9	1
50	State-of-the-art, challenges, and open issues in the integration of Internet of things and cloud computing. <i>Journal of Network and Computer Applications</i> , <b>2016</b> , 67, 99-117	7.9	423
49	(lambda)-CoAP: An Internet of Things and Cloud Computing Integration Based on the Lambda Architecture and CoAP. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2016</b> , 195-206	0.2	3

48	Sensor4PRI: a sensor platform for the protection of railway infrastructures. <i>Sensors</i> , <b>2015</b> , 15, 4996-5019	3.8	13
47	Maintenance of Reliable Distributed Applications with Open-Source Middleware: Fifteen Years Later. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 116-128	0.9	
46	Using Wireless Sensor Networks and Trains as Data Mules to Monitor Slab Track Infrastructures. <i>Sensors</i> , <b>2015</b> , 15, 15101-26	3.8	9
45	. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 3381-3389	4	10
44	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2014</b> , 10, 1755-1764	11.9	26
43	A Virtual Channel-Based Framework for the Integration of Wireless Sensor Networks in the Cloud <b>2014</b> ,		10
42	A wireless sensor network framework based on light databases. <i>Software - Practice and Experience</i> , <b>2013</b> , 43, 501-523	2.5	0
41	PS-QUASAR: A publish/subscribe QoS aware middleware for Wireless Sensor and Actor Networks. <i>Journal of Systems and Software</i> , <b>2013</b> , 86, 1650-1662	3.3	21
40	COINS: COalitions and INcentives for effective Peer-to-Peer downloads. <i>Journal of Network and Computer Applications</i> , <b>2013</b> , 36, 484-497	7.9	6
39	RAISE: RAILway Infrastructure Health Monitoring Using Wireless Sensor Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2013</b> , 143-157	0.2	10
38	Using standards to integrate soft real-time components into dynamic distributed architectures. <i>Computer Standards and Interfaces</i> , <b>2012</b> , 34, 238-262	3.5	10
37	HERO: A hierarchical, efficient and reliable routing protocol for wireless sensor and actor networks. <i>Computer Communications</i> , <b>2012</b> , 35, 1392-1409	5.1	20
36	Distributed Shared Memory as an Approach for Integrating WSNs and Cloud Computing <b>2012</b> ,		10
35	A service-oriented approach to facilitate WSN application development. <i>Ad Hoc Networks</i> , <b>2011</b> , 9, 430-442	4.52	19
34	A survey on quality of service support in wireless sensor and actor networks: Requirements and challenges in the context of critical infrastructure protection. <i>Journal of Network and Computer Applications</i> , <b>2011</b> , 34, 1225-1239	7.9	60
33	Smart Home Automation Using Controller Area Network. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> , 167-174		0
32	ServiceDDS: A Framework for Real-Time P2P Systems Integration <b>2010</b> ,		5
31	Towards memory management for service-oriented real-time systems <b>2010</b> ,		2

30	Providing temporal isolation in the OSGi framework <b>2009</b> ,		11
29	Designing distributed software with RT-CORBA and SDL. <i>Computer Standards and Interfaces</i> , <b>2009</b> , 31, 1073-1091	3.5	2
28	A Service-Oriented Middleware for Wireless Sensor and Actor Networks <b>2009</b> ,		4
27	<b>2009</b> ,		1
26	Managing Multi-concern Application Complexity in AspectSBASCO. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 133-142	0.9	
25	USEME: A Service-Oriented Framework for Wireless Sensor and Actor Networks <b>2008</b> ,		3
24	UM-RTCOM: An analyzable component model for real-time distributed systems. <i>Journal of Systems and Software</i> , <b>2008</b> , 81, 709-726	3.3	5
23	Programming Wireless Sensor and Actor Networks with TC-WSANs <b>2007</b> ,		4
22	File Sharing Service over a Generic P2P Simulator <b>2007</b> ,		1
21	Programming Approaches and Challenges for Wireless Sensor Networks <b>2007</b> ,		18
20	A component-based nuclear power plant simulator kernel. <i>Concurrency Computation Practice and Experience</i> , <b>2007</b> , 19, 593-607	1.4	4
19	A tuple channel-based coordination model for parallel and distributed programming. <i>Journal of Parallel and Distributed Computing</i> , <b>2007</b> , 67, 1092-1107	4.4	3
18	Development of distributed real-time simulators based on CORBA. <i>Simulation Modelling Practice and Theory</i> , <b>2007</b> , 15, 716-733	3.9	4
17	A Component Framework for Wireless Sensor and Actor Networks <b>2006</b> ,		6
16	Experiences with component-oriented technologies in nuclear power plant simulators. <i>Software - Practice and Experience</i> , <b>2006</b> , 36, 1489-1512	2.5	6
15	Efficient parallel LAN/WAN algorithms for optimization. The mallba project. <i>Parallel Computing</i> , <b>2006</b> , 32, 415-440	1	50
14	Using SBASCO to Solve Reaction-Diffusion Equations in Two-Dimensional Irregular Domains. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 912-919	0.9	2
13	Dynamic Reconfiguration of Scientific Components Using Aspect Oriented Programming: A Case Study. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1351-1360	0.9	

12	A CCA-compliant Nuclear Power Plant Simulator Kernel. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 283-297. 0.9	2
11	Integrating RT-CORBA in SDL. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 47-67	0.9
10	An Object-oriented Methodology for Embedded Real-time Systems. <i>Computer Journal</i> , <b>2003</b> , 46, 123-145. 1.3	5
9	Integrating Schedulability Analysis and Design Techniques in SDL. <i>Real-Time Systems</i> , <b>2003</b> , 24, 267-302	1.3 13
8	Domain interaction patterns to coordinate HPF tasks. <i>Parallel Computing</i> , <b>2003</b> , 29, 925-951	1 3
7	SGL-SAT Trillo: A Full Scope Simulator for Nuclear Power Plants. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 7-10	0.9
6	A Border-based Coordination Language for Integrating Task and Data Parallelism. <i>Journal of Parallel and Distributed Computing</i> , <b>2002</b> , 62, 715-740	4.4 5
5	Integrating Task and Data Parallelism by Means of Coordination Patterns. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 16-26	0.9 4
4	Integration of Task and Data Parallelism: A Coordination-Based Approach. <i>Lecture Notes in Computer Science</i> , <b>2000</b> , 173-182	0.9
3	An Analyzable Execution Model for SDL for Embedded Real-Time Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1999</b> , 32, 171-176	
2	A parlog based real-time distributed logic environment. <i>Future Generation Computer Systems</i> , <b>1993</b> , 9, 201-218	7.5 3
1	TCMote: a tuple channel coordination model for wireless sensor networks	2