

Carlos Canal

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

1,478
citations

516215

16
h-index

344852

36
g-index

95
all docs

95
docs citations

95
times ranked

721
citing authors

#	ARTICLE	IF	CITATIONS
1	A formal approach to component adaptation. <i>Journal of Systems and Software</i> , 2005, 74, 45-54.	3.3	203
2	From the Internet of Things to the Internet of People. <i>IEEE Internet Computing</i> , 2015, 19, 40-47.	3.2	186
3	Formalizing Web Service Choreographies. <i>Electronic Notes in Theoretical Computer Science</i> , 2004, 105, 73-94.	0.9	166
4	Model-Based Adaptation of Behavioral Mismatching Components. <i>IEEE Transactions on Software Engineering</i> , 2008, 34, 546-563.	4.3	106
5	Compatibility and inheritance in software architectures. <i>Science of Computer Programming</i> , 2001, 41, 105-138.	1.5	81
6	People as a Service: A Mobile-centric Model for Providing Collective Sociological Profiles. <i>IEEE Software</i> , 2014, 31, 48-53.	2.1	72
7	Adding roles to CORBA objects. <i>IEEE Transactions on Software Engineering</i> , 2003, 29, 242-260.	4.3	41
8	Formalizing WSBPEL Business Processes Using Process Algebra. <i>Electronic Notes in Theoretical Computer Science</i> , 2006, 154, 159-173.	0.9	34
9	ITACA: An integrated toolbox for the automatic composition and adaptation of Web services. , 2009, , .		30
10	Early analysis of resource consumption patterns in mobile applications. <i>Pervasive and Mobile Computing</i> , 2017, 35, 32-50.	2.1	30
11	Rich contextual information for monitoring the elderly in an early stage of cognitive impairment. <i>Pervasive and Mobile Computing</i> , 2017, 34, 106-125.	2.1	30
12	Extending CORBA Interfaces with Protocols. <i>Computer Journal</i> , 2001, 44, 448-462.	1.5	28
13	A service-oriented framework for developing cross cloud migratable software. <i>Journal of Systems and Software</i> , 2013, 86, 2294-2308.	3.3	26
14	Synchronizing Behavioural Mismatch in Software Composition. <i>Lecture Notes in Computer Science</i> , 2006, , 63-77.	1.0	24
15	Software Adaptation. <i>L Objet</i> , 2006, 12, 9-31.	0.2	24
16	Situational-Context: A Unified View of Everything Involved at a Particular Situation. <i>Lecture Notes in Computer Science</i> , 2016, , 476-483.	1.0	22
17	A Model-Based Approach to the Verification and Adaptation of WF/.NET Components. <i>Electronic Notes in Theoretical Computer Science</i> , 2008, 215, 39-55.	0.9	21
18	Component adaptation through flexible subservicing. <i>Science of Computer Programming</i> , 2006, 63, 39-56.	1.5	15

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19	A Formal Framework for Structural Reconfiguration of Components under Behavioural Adaptation. <i>Electronic Notes in Theoretical Computer Science</i> , 2010, 263, 95-110.	0.9	15
20	On the semantics of software adaptation. <i>Science of Computer Programming</i> , 2006, 61, 136-151.	1.5	14
21	Context-Based Adaptation of Component Behavioural Interfaces. , 2007, , 305-323.		13
22	An Aspect-Oriented Adaptation Framework for Dynamic Component Evolution. <i>Electronic Notes in Theoretical Computer Science</i> , 2007, 189, 21-34.	0.9	12
23	Developing migratable multicloud applications based on MDE and adaptation techniques. , 2013, ,		12
24	Human microservices: A framework for turning humans into service providers. <i>Software - Practice and Experience</i> , 2021, 51, 1910-1935.	2.5	11
25	Coordination and Adaptation Techniques for Software Entities. <i>Lecture Notes in Computer Science</i> , 2005, , 133-147.	1.0	11
26	Systematic component adaptation. <i>Electronic Notes in Theoretical Computer Science</i> , 2002, 66, 97-113.	0.9	10
27	Dynamic Contextual Adaptation. <i>Electronic Notes in Theoretical Computer Science</i> , 2007, 175, 81-95.	0.9	10
28	Structural reconfiguration of systems under behavioral adaptation. <i>Science of Computer Programming</i> , 2012, 78, 46-64.	1.5	10
29	Semi-Automatic Specification of Behavioural Service Adaptation Contracts. <i>Electronic Notes in Theoretical Computer Science</i> , 2010, 264, 19-34.	0.9	9
30	Behavioural self-adaptation of services in ubiquitous computing environments. , 2009, ,		8
31	Interactive specification and verification of behavioral adaptation contracts. <i>Information and Software Technology</i> , 2012, 54, 701-723.	3.0	8
32	Interactive Specification and Verification of Behavioural Adaptation Contracts. , 2009, ,		7
33	Enough about standardization, let's build cloud applications. , 2012, ,		7
34	Allowing IoT Devices Collaboration to Help Elderly in Their Daily Lives. <i>Communications in Computer and Information Science</i> , 2020, , 111-122.	0.4	7
35	Behavioural Types for Service Integration: Achievements and Challenges. <i>Electronic Notes in Theoretical Computer Science</i> , 2007, 180, 41-54.	0.9	6
36	Identifying adaptation needs to avoid the vendor lock-in effect in the deployment of cloud SBAs. , 2012, ,		6

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37	Enabling the Interconnection of Smart Devices Through Semantic Web Techniques. Lecture Notes in Computer Science, 2019, , 534-537.	1.0	6
38	TITAN: a Framework for Aspect Oriented System Evolution. , 2007, , .		5
39	Context-Aware Service Discovery and Adaptation Based on Semantic Matchmaking. , 2010, , .		5
40	Assisting Cloud Service Migration Using Software Adaptation Techniques. , 2013, , .		5
41	Early Evaluation of Mobile Applicationsâ€™ Resource Consumption and Operating Costs. IEEE Access, 2020, 8, 146648-146665.	2.6	5
42	Digital Avatars: Promoting Independent Living for Older Adults. Wireless Communications and Mobile Computing, 2020, 2020, 1-11.	0.8	5
43	Adapting Components with Mismatching Behaviours. Lecture Notes in Computer Science, 2002, , 185-199.	1.0	5
44	Handling Data-Based Concurrency in Context-Aware Service Protocols. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 30, 62-77.	0.8	5
45	SOWCompact: A federated process mining method for social workflows. Information Sciences, 2022, 595, 18-37.	4.0	5
46	Soft component adaptation ¹ This work has been partly supported by the project NAPOLI funded by the Italian Ministry of Instruction, University and Research (MIUR), and the projects TIC2002-4309-C02-02 and TIC2001-2705-C03-02 funded by the Spanish Ministry of Science and Technology (MCYT). Electronic Notes in Theoretical Computer Science, 2003, 85, 1-16.	0.9	4
47	Run-time Composition and Adaptation of Mismatching Behavioural Transactions. , 2007, , .		4
48	Towards a Model-Based Approach for Context-Aware Composition and Adaptation: A Case Study using WF/.NET. , 2008, , .		4
49	Using Bluetooth Low Energy Advertisements for the Detection of People Temporal Proximity Patterns. Mobile Information Systems, 2020, 2020, 1-17.	0.4	4
50	Modelling digital avatars: A tuple space approach. Science of Computer Programming, 2021, 203, 102583.	1.5	4
51	A People-Oriented Paradigm for Smart Cities. Lecture Notes in Computer Science, 2017, , 584-591.	1.0	4
52	Towards Dynamically Programmable Devices Using Beacons. Lecture Notes in Computer Science, 2018, , 49-58.	1.0	4
53	On the specification of software adaptation. Electronic Notes in Theoretical Computer Science, 2004, 97, 47-65.	0.9	3
54	Enabling Adaptivity in User Interfaces. Lecture Notes in Computer Science, 2007, , 106-114.	1.0	3

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55	A formal model and composition language for context-aware service protocols. , 2009, , .		3
56	Towards Distributed and Context-Aware Human-Centric Cyber-Physical Systems. Communications in Computer and Information Science, 2018, , 59-73.	0.4	3
57	Measuring Component Adaptation. Lecture Notes in Computer Science, 2004, , 71-86.	1.0	3
58	Coordination and Adaptation Techniques: Bridging the Gap Between Design and Implementation. , 2006, , 72-86.		3
59	Multiple Concern Adaptation for Run-time Composition in Context-Aware Systems. Electronic Notes in Theoretical Computer Science, 2008, 215, 111-130.	0.9	2
60	Smartphones as Personal Profile Providers: Enhancing Mobile App Architectures. , 2015, , .		2
61	Towards Multi-Device Context Aware Systems for Elders Well-being. , 2018, , .		2
62	One Step Towards Dynamically Programmable Things: an Implementation Using Beacons. , 2019, , .		2
63	Digital Avatars for Older Peopleâ€™s Care. Communications in Computer and Information Science, 2020, , 59-70.	0.4	2
64	Stability-Based Adaptation of Asynchronously Communicating Software. Lecture Notes in Computer Science, 2016, , 321-336.	1.0	2
65	Clint: A Composition Language Interpreter (Tool Paper). , 2008, , 423-427.		2
66	Liquid Context: Migrating the Usersâ€™ Context Across Devices. Lecture Notes in Computer Science, 2016, , 128-141.	1.0	1
67	Situational context in the programmable world. , 2017, , .		1
68	Complex Event Processing for Health Monitoring. Communications in Computer and Information Science, 2019, , 3-14.	0.4	1
69	Dynamically Programmable Virtual Profiles as a Service. , 2019, , .		1
70	Model-Based Adaptation of Software Communicating via FIFO Buffers. Lecture Notes in Computer Science, 2015, , 252-266.	1.0	1
71	A Case Study in Model-Based Adaptation of Web Services. Lecture Notes in Computer Science, 2010, , 112-126.	1.0	0
72	A Framework for Run-Time Behavioural Service Adaptation in Ubiquitous Computing. Lecture Notes in Computer Science, 2010, , 67-76.	1.0	0

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73	Seamless Interactions on the Internet of Things. A Spotify-Based Proof of Concept. Lecture Notes in Computer Science, 2018, , 124-136.	1.0	0
74	Interconnecting IoT Devices to Improve the QoL of Elderly People. Communications in Computer and Information Science, 2019, , 83-93.	0.4	0
75	A Programming Framework for People as a Service. Lecture Notes in Computer Science, 2020, , 308-312.	1.0	0
76	Interconnecting IoT Devices to Improve the QoL of Elderly People. Advances in Medical Technologies and Clinical Practice Book Series, 2020, , 148-165.	0.3	0
77	Providing Support to IoT Devices Deployed in Disconnected Rural Environment. Communications in Computer and Information Science, 2020, , 140-150.	0.4	0
78	A Formal Programming Framework for Digital Avatars. Lecture Notes in Computer Science, 2020, , 236-251.	1.0	0
79	Interconnecting IoT Devices to Improve the QoL of Elderly People. , 2022, , 999-1013.		0