

Fulvio Corno

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7093810/publications.pdf>

Version: 2024-02-01

152
papers

2,302
citations

394421

19
h-index

330143

37
g-index

158
all docs

158
docs citations

158
times ranked

1747
citing authors

#	ARTICLE	IF	CITATIONS
1	How the Preattentive Process is Exploited in Practical Information Visualization Design: A Review. International Journal of Human-Computer Interaction, 2023, 39, 707-720.	4.8	1
2	Helping novice developers harness security issues in cloud-IoT systems. Journal of Reliable Intelligent Environments, 2022, 8, 261-283.	5.2	4
3	Computational notebooks to support developers in prototyping IoT systems. International Journal of Human Computer Studies, 2022, 165, 102850.	5.6	2
4	Perception of Security Issues in the Development of Cloud-IoT Systems by a Novice Programmer. Ambient Intelligence and Smart Environments, 2021, , .	0.3	2
5	On Computational Notebooks to Empower Physical Computing Novices. , 2021, , .		1
6	From Usersâ€™ Intentions to IF-THEN Rules in the Internet of Things. ACM Transactions on Information Systems, 2021, 39, 1-33.	4.9	16
7	Devices, Information, and People: Abstracting the Internet of Things for End-User Personalization. Lecture Notes in Computer Science, 2021, , 71-86.	1.3	6
8	How is Open Source Software Development Different in Popular IoT Projects?. IEEE Access, 2020, 8, 28337-28348.	4.2	11
9	TAPrec. , 2020, , .		12
10	HeyTAP. , 2020, , .		18
11	XDN: cross-device framework for custom notifications management. Computing (Vienna/New York), 2019, 101, 1735-1761.	4.8	6
12	On the impact of dysarthric speech on contemporary ASR cloud platforms. Journal of Reliable Intelligent Environments, 2019, 5, 163-172.	5.2	30
13	Reliability on pervasive well-being: will it soon become a reality?. Journal of Reliable Intelligent Environments, 2019, 5, 129-130.	5.2	1
14	On the challenges novice programmers experience in developing IoT systems: A Survey. Journal of Systems and Software, 2019, 157, 110389.	4.5	13
15	Touch-Based Ontology Browsing on Tablets and Surfaces. , 2019, , .		0
16	My IoT Puzzle: Debugging IF-THEN Rules Through the Jigsaw Metaphor. Lecture Notes in Computer Science, 2019, , 18-33.	1.3	17
17	Towards Computational Notebooks for IoT Development. , 2019, , .		3
18	RecRules. ACM Transactions on Intelligent Systems and Technology, 2019, 10, 1-27.	4.5	22

#	ARTICLE	IF	CITATIONS
19	EUDoptimizer: Assisting End Users in Composing IF-THEN Rules Through Optimization. IEEE Access, 2019, 7, 37950-37960.	4.2	4
20	Empowering End Users in Debugging Trigger-Action Rules. , 2019, , .		34
21	A high-level semantic approach to End-User Development in the Internet of Things. International Journal of Human Computer Studies, 2019, 125, 41-54.	5.6	28
22	Assessing Virtual Assistant Capabilities with Italian Dysarthric Speech. , 2018, , .		22
23	User expectations in intelligent environments. Journal of Reliable Intelligent Environments, 2018, 4, 189-198.	5.2	3
24	On The Advanced Services That 5G May Provide To IoT Applications. , 2018, , .		3
25	AwareNotifications: Multi-device semantic notification handling with user-defined preferences. Journal of Ambient Intelligence and Smart Environments, 2018, 10, 327-343.	1.4	6
26	Easing IoT development for novice programmers through code recipes. , 2018, , .		6
27	An Unsupervised and Noninvasive Model for Predicting Network Resource Demands. IEEE Internet of Things Journal, 2018, 5, 4342-4350.	8.7	6
28	IoT for Ambient Assisted Living. , 2018, , 161-187.		1
29	Collaborative Accessible Gameplay with One-Switch Interfaces. , 2018, , .		0
30	Pain Points for Novice Programmers of Ambient Intelligence Systems: An Exploratory Study. , 2017, , .		2
31	Design and Development of One-Switch Video Games for Children with Severe Motor Disabilities. ACM Transactions on Accessible Computing, 2017, 10, 1-42.	2.4	8
32	Training Engineers for the Ambient Intelligence Challenge. IEEE Transactions on Education, 2017, 60, 40-49.	2.4	19
33	A Semantic Web Approach to Simplifying Trigger-Action Programming in the IoT. Computer, 2017, 50, 18-24.	1.1	191
34	On the design of an energy and user aware study room. , 2017, , .		1
35	A High-Level Approach Towards End User Development in the IoT. , 2017, , .		15
36	XDN. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
37	SmartBike: an IoT Crowd Sensing Platform for Monitoring City Air Pollution. International Journal of Electrical and Computer Engineering, 2017, 7, 3602.	0.7	31
38	IoT for Ambient Assisted Living. Advances in Medical Technologies and Clinical Practice Book Series, 2017, , 66-97.	0.3	0
39	Estimate user meaningful places through low-energy mobile sensing. , 2016, , .		5
40	Educating Internet of Things Professionals: The Ambient Intelligence Course. IT Professional, 2016, 18, 50-57.	1.5	9
41	A Healthcare Support System for Assisted Living Facilities: An IoT Solution. , 2016, , .		20
42	Clocks, Bars and Balls. , 2016, , .		2
43	Autonomic goal-oriented device management for Smart Environments. Journal of Ambient Intelligence and Smart Environments, 2015, 7, 425-448.	1.4	3
44	Real-time monitoring of high-level states in smart environments. Journal of Ambient Intelligence and Smart Environments, 2015, 7, 133-153.	1.4	6
45	Smart Systems. IT Professional, 2015, 17, 14-17.	1.5	5
46	A context and user aware smart notification system. , 2015, , .		24
47	IoT Meets Exhibition Areas: A Modular Architecture to Improve Proximity Interactions. , 2015, , .		0
48	The Overall Architecture of a Decision Support System for Public Buildings. Energy Procedia, 2015, 78, 2196-2201.	1.8	5
49	Supporting caregivers in assisted living facilities for persons with disabilities: a user study. Universal Access in the Information Society, 2015, 14, 133-144.	3.0	22
50	Designing for user confidence in intelligent environments. Journal of Reliable Intelligent Environments, 2015, 1, 11-21.	5.2	16
51	HomeRules. , 2015, , .		43
52	GNomon. , 2015, , .		8
53	PowerOnt: An Ontology-Based Approach for Power Consumption Estimation in Smart Homes. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 3-8.	0.3	9
54	IoT Meets Caregivers: A Healthcare Support System in Assisted Living Facilities. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 172-177.	0.3	1

#	ARTICLE	IF	CITATIONS
55	Playable One-Switch Video Games for Children with Severe Motor Disabilities Based on GNomon. , 2015, , .		2
56	Can We Make Dynamic, Accessible and Fun One-Switch Video Games?. , 2015, , .		3
57	A Semantics-Rich Information Technology Architecture for Smart Buildings. Buildings, 2014, 4, 880-910.	3.1	10
58	Advancing Cloud Computing [Guest editors' introduction]. IT Professional, 2014, 16, 16-17.	1.5	0
59	Modeling and formal verification of smart environments. Security and Communication Networks, 2014, 7, 1582-1598.	1.5	13
60	JEERP: Energy-Aware Enterprise Resource Planning. IT Professional, 2014, 16, 50-56.	1.5	8
61	SAT based enforcement of domotic effects in smart environments. Journal of Ambient Intelligence and Humanized Computing, 2014, 5, 565-579.	4.9	3
62	Design-time formal verification for smart environments: an exploratory perspective. Journal of Ambient Intelligence and Humanized Computing, 2014, 5, 581-599.	4.9	9
63	Template-Based Ontology Population for Smart Environments Configuration. Lecture Notes in Computer Science, 2014, , 271-278.	1.3	0
64	Innovative and Disruptive Technologies [From the Editors]. IT Professional, 2013, 15, 4-5.	1.5	1
65	The smart home controller on your wrist. , 2013, , .		8
66	E-Learning at Politecnico di Torino. , 2013, , 690-702.		0
67	Real-Time Big Data Processing for Domain Experts. , 2013, , 415-447.		2
68	Publishing LO(D)D: Linked Open (Dynamic) Data for Smart Sensing and Measuring Environments. Procedia Computer Science, 2012, 10, 381-388.	2.0	6
69	dWatch: A Personal Wrist Watch for Smart Environments. Procedia Computer Science, 2012, 10, 300-307.	2.0	16
70	spChains: A Declarative Framework for Data Stream Processing in Pervasive Applications. Procedia Computer Science, 2012, 10, 316-323.	2.0	9
71	Intelligent Energy Optimization for User Intelligible Goals in Smart Home Environments. IEEE Transactions on Smart Grid, 2012, 3, 2128-2135.	9.0	76
72	DoMAIns: Domain-based modeling for Ambient Intelligence. Pervasive and Mobile Computing, 2012, 8, 614-628.	3.3	8

#	ARTICLE	IF	CITATIONS
73	Home energy consumption feedback: A user survey. Energy and Buildings, 2012, 47, 383-393.	6.7	74
74	Formal Verification of Device State Chart Models. , 2011, , .		7
75	What would you ask to your home if it were intelligent? Exploring user expectations about next-generation homes. Journal of Ambient Intelligence and Smart Environments, 2011, 3, 111-126.	1.4	25
76	DOGeye: Controlling your home with eye interaction. Interacting With Computers, 2011, 23, 484-498.	1.5	17
77	Modeling, simulation and emulation of Intelligent Domotic Environments. Automation in Construction, 2011, 20, 967-981.	9.8	10
78	Enabling machine understandable exchange of energy consumption information in intelligent domotic environments. Energy and Buildings, 2011, 43, 1392-1402.	6.7	24
79	Review of the state-of-the-art in patent information and forthcoming evolutions in intelligent patent informatics. World Patent Information, 2010, 32, 30-38.	1.7	117
80	Rule-based intelligence for domotic environments. Automation in Construction, 2010, 19, 183-196.	9.8	23
81	Mobile interaction with smart environments through linked data. , 2010, , .		8
82	DogSim: A state chart simulator for Domotic Environments. , 2010, , .		11
83	Eye-based Direct Interaction for Environmental Control in Heterogeneous Smart Environments. , 2010, , 1117-1138.		5
84	Technology independent interoperation of domotic devices through rules. , 2009, , .		3
85	An Ontology-Based Context Management and Reasoning on the DOG Gateway. , 2009, , .		1
86	FaSet: A Set Theory Model for Faceted Search. , 2009, , .		8
87	A blueprint for integrated eye-controlled environments. Universal Access in the Information Society, 2009, 8, 311-321.	3.0	8
88	Understanding users and their needs. Universal Access in the Information Society, 2009, 8, 259-275.	3.0	39
89	Automatic domotic device interoperation. IEEE Transactions on Consumer Electronics, 2009, 55, 499-506.	3.6	6
90	The DOG gateway: enabling ontology-based intelligent domotic environments. IEEE Transactions on Consumer Electronics, 2008, 54, 1656-1664.	3.6	75

#	ARTICLE	IF	CITATIONS
91	Self-Similarity Metric for Index Pruning in Conceptual Vector Space Models. , 2008, , .		1
92	Integrated speech and gaze control for realistic desktop environments. , 2008, , .		11
93	DOG: An Ontology-Powered OSCi Domotic Gateway. , 2008, , .		17
94	DogOnt - Ontology Modeling for Intelligent Domotic Environments. Lecture Notes in Computer Science, 2008, , 790-803.	1.3	134
95	Eye Tracking Impact on Quality-of-Life of ALS Patients. Lecture Notes in Computer Science, 2008, , 70-77.	1.3	32
96	A reusable 3D visualization component for the semantic web. , 2007, , .		5
97	Versatile RDF Representation for Multimedia Semantic Search. , 2007, , .		0
98	Domotic house gateway. , 2006, , .		16
99	On-the-fly Construction of Web Services Compositions from Natural Language Requests. Journal of Software, 2006, 1, .	0.6	15
100	Automatic learning of text-to-concept mappings exploiting WordNet-like lexical networks. , 2005, , .		5
101	Evolving Assembly Programs: How Games Help Microprocessor Validation. IEEE Transactions on Evolutionary Computation, 2005, 9, 695-706.	10.0	35
102	Composing Web services on the basis of natural language requests. , 2005, , .		13
103	Automatic test generation for verifying microprocessors. IEEE Potentials, 2005, 24, 34-37.	0.3	5
104	Multilingual semantic elaboration in the DOSE platform. , 2004, , .		3
105	EVOLUTIONARY SIMULATION-BASED VALIDATION. International Journal on Artificial Intelligence Tools, 2004, 13, 897-916.	1.0	2
106	A BIST-based Solution for the Diagnosis of Embedded Memories Adopting Image Processing Techniques. Journal of Electronic Testing: Theory and Applications (JETTA), 2004, 20, 79-87.	1.2	4
107	Code Generation for Functional Validation of Pipelined Microprocessors. Journal of Electronic Testing: Theory and Applications (JETTA), 2004, 20, 269-278.	1.2	7
108	Automatic test program generation: a case study. IEEE Design and Test of Computers, 2004, 21, 102-109.	1.0	106

#	ARTICLE	IF	CITATIONS
109	Validation of the dependability of CAN-based networked systems. , 2004, , .		4
110	Impact of Technology on Learning Paradigms and Teaching Practices. , 2004, , 199-200.		0
111	Built-In Self Test of Sequential Circuits. Genetic Algorithms and Evolutionary Computation, 2003, , 143-173.	0.3	0
112	Initializability analysis of synchronous sequential circuits. ACM Transactions on Design Automation of Electronic Systems, 2002, 7, 249-264.	2.6	6
113	Evolutionary Techniques for Minimizing Test Signals Application Time. Lecture Notes in Computer Science, 2002, , 183-189.	1.3	0
114	ARPIA: A High-Level Evolutionary Test Signal Generator. Lecture Notes in Computer Science, 2001, , 298-306.	1.3	3
115	Evolving Cellular Automata for Self-Testing Hardware. Lecture Notes in Computer Science, 2000, , 31-40.	1.3	9
116	Automatic Validation of Protocol Interfaces Described in VHDL. Lecture Notes in Computer Science, 2000, , 205-214.	1.3	1
117	Exploiting Behavioral Information in Gate-Level ATPG. Journal of Electronic Testing: Theory and Applications (JETTA), 1999, 14, 141-148.	1.2	8
118	SymFony: a hybrid topological-symbolic ATPG exploiting RT-level information. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 1999, 18, 191-202.	2.7	6
119	Test Pattern Generation under Low Power Constraints. Lecture Notes in Computer Science, 1999, , 162-170.	1.3	1
120	The General Product Machine: a New Model for Symbolic FSM Traversal. Formal Methods in System Design, 1998, 12, 267-289.	0.8	3
121	Integrating online and offline testing of a switching memory. IEEE Design and Test of Computers, 1998, 15, 63-70.	1.0	8
122	The selfish gene algorithm. , 1998, , .		44
123	<title>Experiences in the use of evolutionary techniques for testing digital circuits</title>. , 1998, , .		4
124	SAARA. , 1997, , .		1
125	Simulation-Based Verification of Network Protocols Performance. IFIP Advances in Information and Communication Technology, 1997, , 236-251.	0.7	1
126	GATTO: a genetic algorithm for automatic test pattern generation for large synchronous sequential circuits. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 1996, 15, 991-1000.	2.7	93

#	ARTICLE	IF	CITATIONS
127	Circular self-test path for FSMs. IEEE Design and Test of Computers, 1996, 13, 50-60.	1.0	14
128	A parallel genetic algorithm for Automatic Generation of Test Sequences for digital circuits. Lecture Notes in Computer Science, 1996, , 454-459.	1.3	6
129	Exploiting competing subpopulations for automatic generation of test sequences for digital circuits. Lecture Notes in Computer Science, 1996, , 791-800.	1.3	1
130	A PVM tool for automatic test generation on parallel and distributed systems. Lecture Notes in Computer Science, 1995, , 39-44.	1.3	2
131	A methodology for system-level design for verifiability. , 1993, , 80-91.		2
132	New techniques for speeding-up fault-injection campaigns. , 0, , .		48
133	Testability analysis and ATPG on behavioral RT-level VHDL. , 0, , .		52
134	Guaranteeing testability in re-encoding for low power. , 0, , .		3
135	Exploiting symbolic techniques for partial scan flip flop selection. , 0, , .		6
136	Fast sequential circuit test generation using high-level and gate-level techniques. , 0, , .		29
137	Approximate equivalence verification of sequential circuits via genetic algorithms. , 0, , .		0
138	Integrating symbolic techniques in ATPG-based sequential logic optimization. , 0, , .		0
139	Optimizing deceptive functions with the SG-Clans algorithm. , 0, , .		4
140	Automatic test bench generation for validation of RT-level descriptions: an industrial experience. , 0, , .		10
141	On the test of microprocessor IP cores. , 0, , .		43
142	Efficient machine-code test-program induction. , 0, , .		14
143	Dynamic prediction of web requests. , 0, , .		8
144	Fully automatic test program generation for microprocessor cores. , 0, , .		45

#	ARTICLE	IF	CITATIONS
145	Exploiting co-evolution and a modified island model to climb the core war hill. , 0, , .		3
146	Domain specific searches using conceptual spectra. , 0, , .		5
147	An agent based autonomic semantic platform. , 0, , .		12
148	The Impact of Gaze Controlled Technology on Quality of Life. , 0, , 48-54.		7
149	Beyond Communication and Control. , 0, , 103-127.		1
150	Verifying the equivalence of sequential circuits with genetic algorithms. , 0, , .		0
151	Speech and Gaze Control for Desktop Environments. , 0, , 188-203.		0
152	How do end-users program the Internet of Things?. Behaviour and Information Technology, 0, , 1-23.	4.0	3