Javier Garcia-Zubia

List of Publications by Year
in descending order

103	1,361	567281 15	477307 29
papers	citations	h-index	g-index

103	103	103	655
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On Objectives of Instructional Laboratories, Individual Assessment, and Use of Collaborative Remote Laboratories. IEEE Transactions on Learning Technologies, 2009, 2, 263-274.	3.2	165
2	Addressing Software Impact in the Design of Remote Laboratories. IEEE Transactions on Industrial Electronics, 2009, 56, 4757-4767.	7.9	119
3	A Flexible and Configurable Architecture for Automatic Control Remote Laboratories. IEEE Transactions on Learning Technologies, 2015, 8, 299-310.	3.2	65
4	Empirical Analysis of the Use of the VISIR Remote Lab in Teaching Analog Electronics. IEEE Transactions on Education, 2017, 60, 149-156.	2.4	65
5	Adding New Features to New and Existing Remote Experiments through their Integration in WebLab-Deusto. International Journal of Online and Biomedical Engineering, 2011, 7, 33.	1.4	47
6	An Extensible Architecture for the Integration of Remote and Virtual Laboratories in Public Learning Tools. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2015, 10, 223-233.	0.9	35
7	Towards federated interoperable bridges for sharing educational remote laboratories. Computers in Human Behavior, 2014, 30, 389-395.	8.5	32
8	VISIR: Experiences and Challenges. International Journal of Online and Biomedical Engineering, 2012, 8, 25.	1.4	31
9	Improving the Scalability and Replicability of Embedded Systems Remote Laboratories Through a Cost-Effective Architecture. IEEE Access, 2019, 7, 164164-164185.	4.2	31
10	Remote measurement and instrumentation laboratory for training in real analog electronic experiments. Measurement: Journal of the International Measurement Confederation, 2016, 82, 123-134.	5.0	28
11	State of Art, Initiatives and New Challenges for Virtual and Remote Labs. , 2012, , .		27
12	Increasing the Value of Remote Laboratory Federations Through an Open Sharing Platform: LabsLand. Lecture Notes in Networks and Systems, 2018, , 859-873.	0.7	25
13	Scaling up the Lab: An Adaptable and Scalable Architecture for Embedded Systems Remote Labs. IEEE Access, 2018, 6, 16887-16900.	4.2	24
14	Spreading remote lab usage a system â€" A community â€" A Federation. , 2016, , .		23
15	Mobile Devices and Remote Labs in Engineering Education. , 2008, , .		22
16	Generic integration of remote laboratories in learning and content management systems through federation protocols. , 2013, , .		22
17	Interactive live-streaming technologies and approaches for web-based applications. Multimedia Tools and Applications, 2018, 77, 6471-6502.	3.9	22
18	Exploring the computational cost of machine learning at the edge for human-centric Internet of Things. Future Generation Computer Systems, 2020, 112, 670-683.	7.5	22

#	Article	IF	Citations
19	Time to play with a microcontroller managed mobile bot. , 2012, , .		21
20	Using LabVIEW remote panel in remote laboratories: Advantages and disadvantages. , 2012, , .		19
21	LXI Technologies for Remote Labs: An Extension of the VISIR Project. International Journal of Online and Biomedical Engineering, 2010, 6, 25.	1.4	19
22	Enabling mobile access to Remote Laboratories. , 2011, , .		18
23	LabsLand: A sharing economy platform to promote educational remote laboratories maintainability, sustainability and adoption. , 2016, , .		18
24	Learning Analytics on federated remote laboratories: Tips and techniques. , 2014, , .		15
25	Acceptance, Usability and Usefulness of WebLab-Deusto from the Students Point of View. International Journal of Online and Biomedical Engineering, 2009, 5, 9.	1.4	15
26	Using remote labs to serve different teacher's needs A case study with VISIR and RemotElectLab. , 2012, , .		14
27	Adapting Remote Labs to Learning Scenarios: Case Studies Using VISIR and RemotElectLab. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2014, 9, 33-39.	0.9	14
28	New Approach for Conversational Agent Definition by Non-Programmers: A Visual Domain-Specific Language. IEEE Access, 2019, 7, 5262-5276.	4.2	14
29	VISIR deployment in undergraduate engineering practices. , 2011, , .		13
30	Sharing Laboratories across Different Remote Laboratory Systems. , 2012, , .		13
31	An Open and Scalable Web-Based Interactive Live-Streaming architecture: The WILSP Platform. IEEE Access, 2017, 5, 9842-9856.	4.2	13
32	Design and Evaluation of a User Experience Questionnaire for Remote Labs. IEEE Access, 2021, 9, 50222-50230.	4.2	13
33	Application and user perceptions of using the WebLab-Deusto-PLD in technical education. , 2011, , .		12
34	A mobile robot platform for open learning based on serious games and remote laboratories. , 2013, , .		12
35	The WebLab-Deusto Remote Laboratory Management System Architecture: Achieving Scalability, Interoperability, and Federation of Remote Experimentation. , 2018, , 17-42.		12
36	Sharing the remote laboratories among different institutions: A practical case. , 2012, , .		11

#	Article	IF	Citations
37	Addressing low cost remote laboratories through federation protocols: Fish tank remote laboratory. , 2013, , .		11
38	Dashboard for the VISIR remote lab. , 2019, , .		11
39	Modelling remote laboratories integrations in e-learning tools through remote laboratories federation protocols. , 2012, , .		10
40	Exploring complex remote laboratory ecosystems through interoperable federation chains. , 2013, , .		10
41	Automatic Assessment of Progress Using Remote Laboratories. International Journal of Online and Biomedical Engineering, 2015, 11, 49.	1.4	10
42	Learning to Program in K12 Using a Remote Controlled Robot: RoboBlock. Lecture Notes in Networks and Systems, 2018, , 344-358.	0.7	10
43	WebLabLib: New Approach for Creating Remote Laboratories. Lecture Notes in Networks and Systems, 2020, , 477-488.	0.7	10
44	Application and user perceptions of using the WebLab-Deusto-PLD in technical education. , 2011, , .		9
45	Experience with WebLab-Deusto. , 2006, , .		8
46	Remote experiments in secondary school education. , 2013, , .		8
47	Generic integration of remote laboratories in public learning tools: Organizational and technical challenges. , 2014, , .		8
48	RoboBlock: A remote lab for robotics and visual programming. , 2017, , .		8
49	A sustainable approach to laboratory experimentation. , 2019, , .		8
50	Experimenting in PILAR federation: A common path for the future. , 2018, , .		7
51	Towards Reliable Remote Laboratory Experiences: A Model for Maximizing Availability Through Fault-Detection and Replication. IEEE Access, 2021, 9, 45032-45054.	4.2	7
52	Optimizing Computational Resources for Edge Intelligence Through Model Cascade Strategies. IEEE Internet of Things Journal, 2022, 9, 7404-7417.	8.7	7
53	VISIR deployment in undergraduate engineering practices. , 2011, , .		6
54	Exploring students collaboration in remote laboratory infrastructures. , 2012, , .		6

#	Article	IF	Citations
55	Sharing Control Laboratories by Remote Laboratory Management System WebLab-Deusto. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 345-350.	0.4	6
56	Boole-WebLab-FPGA: Creating an Integrated Digital Electronics Learning Workflow Through a Hybrid Laboratory and an Educational Electronics Design Tool. International Journal of Online and Biomedical Engineering, 2013, 9, 19.	1.4	6
57	Towards a microRLMS approach for shared development of remote laboratories. , 2014, , .		6
58	Classifying online laboratories: Reality, simulation, user perception and potential overlaps. , 2016, , .		6
59	Integral Remote laboratory for Programmable Logic. , 2019, , .		6
60	International Cooperation for Remote Laboratory Use. , 2018, , 1-31.		6
61	Remote Control of Web 2.0-Enabled Laboratories from Mobile Devices. , 2006, , .		5
62	Remote experiments and online games: How to merge them?. , 2011, , .		5
63	A new approach to conduct remote experimentation over embedded technologies. , 2016, , .		5
64	Using VISIR Remote Lab in the Classroom: Case of Study of the University of Deusto 2009â€“2019. Advances in Intelligent Systems and Computing, 2021, , 82-102.	0.6	5
65	A roadmap for the VISIR remote lab. European Journal of Engineering Education, 2023, 48, 880-898.	2.3	5
66	Putting fundamentals of electronic circuits practices online. , 2012, , .		4
67	Sharing Remote Labs: A Case Study. International Journal of Online and Biomedical Engineering, 2013, 9, 26.	1.4	4
68	Archimedes remote lab for secondary schools. , 2015, , .		4
69	wCloud: Automatic generation of WebLab-Deusto deployments in the Cloud. , 2015, , .		4
70	Weblab â€" Microscope: A remote laboratory for experimenting with digital microscope. , 2016, , .		4
71	Simplicity is Best. , 2019, , .		4
72	Remote Experiments and Online Games: How to Merge them?. International Journal of Engineering Pedagogy, 2011, 1, 31.	1.1	4

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73	Integration of a remote lab in a software tool for digital electronics. , 2013, , .		3
74	Boole-WebLab-Deusto: Integration of a remote lab in a tool for digital circuits design. , 2013, , .		3
75	An automatic assessment model for remote laboratories. , 2014, , .		3
76	New challenges in the Bologna Process using Remote Laboratories and Learning Analytics to support teachers in continuous assessment. , 2014, , .		3
77	OpenSocial Application Builder and Customizer for School Teachers. , 2014, , .		3
78	An architecture for new models of online laboratories: Educative multi-user gamified hybrid laboratories based on virtual environments. , 2016, , .		3
79	A sustainable approach to let students do more real experiments with electrical and electronic circuits. , 2018, , .		3
80	Serious Games, Remote Laboratories and Augmented Reality to Develop and Assess Programming Skills. Lecture Notes in Computer Science, 2014, , 29-36.	1.3	3
81	Accessing WebLabs from cellular phones. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	2
82	Reconfigurable electronics remote lab from the experiments and instruments point of view. , 2012, , .		2
83	Using Remote Labs to Serve Different TeacherÃ¢??s Needs - A Case Study with VISIR and RemotElectLab. International Journal of Online and Biomedical Engineering, 2012, 8, 36.	1.4	2
84	WebLab-Deusto-CPLD: A Practical Experience. International Journal of Online and Biomedical Engineering, 2012, 8, 17.	1.4	2
85	WebLab-Deployer: Exporting remote laboratories as SaaS through federation protocols. , 2013, , .		2
86	Spreading the VISIR Remote Lab Along Argentina. The Experience in Patagonia. Lecture Notes in Networks and Systems, 2018, , 290-297.	0.7	2
87	Addressing technical and organizational pitfalls of using remote laboratories in a commercial environment. , 2018, , .		2
88	Experiencia espaÃ±ola en el proyecto Go-Lab. Educar, 2020, 56, 387-405.	0.4	2
89	Control methodology independent of the experiments to be deployed in remote labs of analog electronic. , 2012, , .		1
90	OLAREX project: Open learning approach with remote experiments. , 2013, , .		1

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91	Widget and smart devices. A different aproach for online learning scenarios. , 2013, , .		1
92	Archimedes remote lab. , 2015, , .		1
93	Remote Experimentation Using a Didactical Elevator. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2015, 10, 319-323.	0.9	1
94	The AppComposer Web application for school teachers: A platform for translating and adapting educational web applications. , 2015, , .		1
95	Mapping VISIR Circuits for Computer-assisted Assessment. , 2021, , .		1
96	Measuring Instruments Control Methodology Performance for Analog Electronics Remote Labs. International Journal of Online and Biomedical Engineering, 2012, 8, 10.	1.4	0
97	IX International Conference on Remote Engineering and Virtual Instrumentation REV 2012. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2014, 9, 22-22.	0.9	0
98	InnoEscuela, innovation in secondary school technical studies. , 2015, , .		0
99	Technology, Learning and Teaching Electronicsâ€"TecnologÃa, Aprendizaje y EnseÃ±anza de la ElectrÃ³nica, TAEE 2014. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2015, 10, 280-281.	0.9	0
100	New experiences and strategies in remote laboratories and apps for electronics: Proposal for a special session. , 2016, , .		0
101	Promoting Microelectronic Through Remote FPGA Based Laboratory. Lecture Notes in Networks and Systems, 2022, , 514-524.	0.7	0
102	Competence Development and Assessment Using a Game-based Strategy. International Journal of Online and Biomedical Engineering, 2014, 10, 38.	1.4	0
103	Accessing Remote Laboratories from Mobile Devices. Advances in Mobile and Distance Learning Book Series, 0, , 233-246.	0.5	0