Luis De La Torre

List of Publications by Year
in descending order

68 papers	1,526 citations	516215 16 h-index	315357 38 g-index
68 all docs	68 docs citations	68 times ranked	1229 citing authors

#	Article	IF	Citations
1	Virtual and remote labs in education: A bibliometric analysis. Computers and Education, 2016, 98, 14-38.	5.1	353
2	Evolutionary Trajectory Planner for Multiple UAVs in Realistic Scenarios. IEEE Transactions on Robotics, 2010, 26, 619-634.	7.3	176
3	Virtual and remote labs in control education: A survey. Annual Reviews in Control, 2016, 42, 1-10.	4.4	136
4	Open and Low-Cost Virtual and Remote Labs on Control Engineering. IEEE Access, 2015, 3, 805-814.	2.6	109
5	The Ball and Beam System: A Case Study of Virtual and Remote Lab Enhancement With Moodle. IEEE Transactions on Industrial Informatics, 2015, 11, 934-945.	7.2	94
6	Providing collaborative support to virtual and remote laboratories. IEEE Transactions on Learning Technologies, 2013, 6, 312-323.	2.2	71
7	On the performance comparison of multi-objective evolutionary UAV path planners. Information Sciences, 2013, 238, 111-125.	4.0	68
8	Exemplar driven development of software product lines. Expert Systems With Applications, 2012, 39, 12885-12896.	4.4	56
9	What remote labs can do for you. Physics Today, 2016, 69, 48-53.	0.3	43
10	Remote Control Laboratory Using EJS Applets and TwinCAT Programmable Logic Controllers. IEEE Transactions on Education, 2013, 56, 156-164.	2.0	42
11	Design of a Low-Cost Air Levitation System for Teaching Control Engineering. Sensors, 2017, 17, 2321.	2.1	34
12	Two web-based laboratories of the FisL@bs network: Hooke's and Snell's laws. European Journal of Physics, 2011, 32, 571-584.	0.3	33
13	Automatic Generation and Easy Deployment of Digitized Laboratories. IEEE Transactions on Industrial Informatics, 2020, 16, 7328-7337.	7.2	30
14	Customized Online Laboratory Experiments: A General Tool and Its Application to the Furuta Inverted Pendulum [Focus on Education]. IEEE Control Systems, 2019, 39, 75-87.	1.0	24
15	Open-Source Hardware in Education: A Systematic Mapping Study. IEEE Access, 2018, 6, 72094-72103.	2.6	22
16	Self-Organized Laboratories for Smart Campus. IEEE Transactions on Learning Technologies, 2020, 13, 404-416.	2.2	22
17	Automated Assessment and Monitoring Support for Competency-Based Courses. IEEE Access, 2019, 7, 41043-41051.	2.6	18
18	The experiment editor: supporting inquiry-based learning with virtual labs. European Journal of Physics, 2017, 38, 035702.	0.3	12

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19	A Study of Strategies for Developing Online Laboratories. IEEE Transactions on Learning Technologies, 2021, 14, 777-787.	2.2	12
20	Adding automatic evaluation to interactive virtual labs. Interactive Learning Environments, 2016, 24, 1456-1476.	4.4	11
21	A Virtual and Remote Control Laboratory in Moodle: The Ball and Beam System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 72-77.	0.4	9
22	An open software - open hardware lab of the air levitation system. IFAC-PapersOnLine, 2017, 50, 9168-9173.	0.5	9
23	An Architecture to use Easy Java-Javascript Simulations in New Devices**Sponsor and financial support acknowledgment goes here. Paper titles should be written in uppercase and lowercase letters, not all uppercase.. IFAC-PapersOnLine, 2015, 48, 129-133.	0.5	8
24	A new architecture for the design of virtual/remote labs: The coupled drives system as a case of study. , 2019, , .		8
25	Evidence-Based Control Engineering Education: Evaluating the LCSD Simulation Tool. IEEE Access, 2020, 8, 170183-170194.	2.6	8
26	Virtual Control Labs Experimentation: The Water Tank System. IFAC-PapersOnLine, 2016, 49, 87-92.	0.5	7
27	Using IoT-Type Metadata and Smart Web Design to Create User Interfaces Automatically. IEEE Transactions on Industrial Informatics, 2023, 19, 3109-3118.	7.2	7
28	Physics Experiments at the UNEDLabs Portal. International Journal of Online and Biomedical Engineering, 2012, 8, 26.	0.9	6
29	Lightweight Node.js & EJsS-based Web Server for Remote Control Laboratories**This work has been supported by the Spanish National Research Project DPI2013-46665-C2-R1.. IFAC-PapersOnLine, 2016, 49, 127-132.	0.5	6
30	Conducting Online Lab Experiments with Blockly. IFAC-PapersOnLine, 2017, 50, 13474-13479.	0.5	6
31	PuzzlEx: an Online Experimentation Environment for Control Engineering Labs. , 2019, , .		6
32	Collecting Experience Data from Remotely Hosted Learning Applications. Lecture Notes in Networks and Systems, 2018, , 170-181.	0.5	6
33	Enhancing Virtual and Remote Labs to Perform Automatic Evaluation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 276-281.	0.4	5
34	Making EJS applications at the OSP digital library available from Moodle. , 2014, , .		5
35	Easy creation and deployment of Javascript remote labs with EjsS and Moodle. , 2016, , .		5
36	A Master Course on Automatic Control with Remote Labs. IFAC-PapersOnLine, 2019, 52, 48-49.	0.5	5

#	Article	IF	Citations
37	A virtual and remote lab of the two electric coupled drives system in the University Network of Interactive Laboratories. , 2015, , .		4
38	Safe Experimentation in Optical Levitation of Charged Droplets Using Remote Labs. Journal of Visualized Experiments, 2019, , .	0.2	4
39	Towards Efficient Resource Allocation for Distributed Workflows Under Demand Uncertainties. Lecture Notes in Computer Science, 2018, , 103-121.	1.0	4
40	A Master Course on Automatic Control Based on the Use of Online Labs. IFAC-PapersOnLine, 2020, 53, 17542-17547.	0.5	4
41	Synchronous Collaboration with Virtual and Remote Labs in Moodle. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 270-275.	0.4	3
42	EasyJava Simulations meets TwinCAT: Remote Real-Time Control Experiments using Programmable Logic Controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 294-299.	0.4	3
43	Assisted Creation and Deployment of Javascript Remote Experiments. International Journal of Online Engineering, 2016, 12, 22.	0.5	3
44	A new Model for a Remote Connection with Hardware Devices using Javascript**This work was supported in part by the Spanish Ministry of Economy and Competitiveness under Project DPI2012-31303.. IFAC-PapersOnLine, 2016, 49, 133-137.	0.5	3
45	Blockly experiments for EjsS laboratories. , 2017, , .		3
46	Coupled tanks laboratory for teaching multivariable control concepts. , 2018, , .		3
47	Using Server-Sent Events for Event-Based Control in Networked Control Systems. IFAC-PapersOnLine, 2019, 52, 260-265.	0.5	3
48	Using Server-Sent Events for Event-Based Control Laboratory Practices in Distance and Blended Learning. , 2019, , .		3
49	Automated experiments on EjsS laboratories. , 2016, , .		2
50	Flipping the Remote Lab with Low Cost Rapid Prototyping Technologies. Lecture Notes in Networks and Systems, 2018, , 250-257.	0.5	2
51	Design and development of a flexible control laboratory plant for educational purposes. , 2018, , .		2
52	The Air Levitation System. IFAC-PapersOnLine, 2019, 52, 33-35.	0.5	2
53	Remote experiments with pneumatic circuit using a double rod cylinder. , 2019, , .		2
54	A new model for a remote connection with hardware devices using Javascript. , 2016, , .		1

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55	On the Fully Automation of the Vibrating String Experiment. Lecture Notes in Networks and Systems, 2018, , 469-482.	0.5	1
56	Stochastic Programming Approach for Resource Selection Under Demand Uncertainty. Lecture Notes in Computer Science, 2019, , 107-126.	1.0	1
57	Learning planar robotics with an open source online laboratory. IFAC-PapersOnLine, 2020, 53, 17222-17227.	0.5	1
58	Performance analysis of multiobjective bio-inspired UAV path planners. , 2011, , .		0
59	Performing Automated Experiments with EJsS Laboratories. IFAC-PapersOnLine, 2015, 48, 134-139.	0.5	0
60	Enhancing web-based labs in Moodle by providing automatic support for different types of files. , 2015, , .		0
61	Low cost air invitation remote lab. , 2017, , .		0
62	Web Experimentation on Virtual and Remote Laboratories. Lecture Notes in Networks and Systems, 2018, , 205-219.	0.5	0
63	Sizing and placement model of energy storage systems in an interactive simulation tool for power distribution networks. , 2018, , .		0
64	Teaching Control supported by Virtual Labs under a Competency-based curriculum. , 0, , .		0
65	Combining Virtual and Remote Interactive Labs and Visual/Textual Programming: The Furuta PendulumÂExperience. Lecture Notes in Networks and Systems, 2019, , 100-109.	0.5	0
66	Entorno de experimentaciÃ³n para laboratorios en lÃnea: el caso del pÃ©ndulo de Furuta. , 0, , .		0
67	Thermal Analysis of the MIPS Processor Formulated within DEVS Conventions. , 0, , 103-144.		0
68	Un nuevo modelo para la conexiÃ³n remota con hardware usando Javascript. , 0, , .		0