Gabriel Diaz Orueta

List of Publications by Year
in descending order

75 papers	1,047 citations	759233 12 h-index	501196 28 g-index
75 all docs	75 docs citations	75 times ranked	807 citing authors

#	ARTICLE	IF	CITATIONS
1	New technology trends in education: Seven years of forecasts and convergence. Computers and Education, 2011, 57, 1893-1906.	8.3	323
2	Expanding the Boundaries of the Classroom: Implementation of Remote Laboratories for Industrial Electronics Disciplines. IEEE Industrial Electronics Magazine, 2013, 7, 41-49.	2.6	50
3	State of the art of frameworks and middleware for facilitating mobile and ubiquitous learning development. Journal of Systems and Software, 2011, 84, 1883-1891.	4.5	45
4	Static analysis of source code security: Assessment of tools against SAMATE tests. Information and Software Technology, 2013, 55, 1462-1476.	4.4	45
5	State-of-the-art remote laboratories for industrial electronics applications. , 2012, , .		43
6	An automatic data mining method to detect abnormal human behaviour using physical activity measurements. Pervasive and Mobile Computing, 2014, 15, 228-241.	3.3	38
7	Theoretical study of oxygen in silicon: Breaking of the Si–Si bond. Physical Review B, 1987, 35, 788-791.	3.2	31
8	VISIR: Experiences and Challenges. International Journal of Online and Biomedical Engineering, 2012, 8, 25.	1.4	31
9	Virtual and Remote Industrial Laboratory: Integration in Learning Management Systems. IEEE Industrial Electronics Magazine, 2014, 8, 45-58.	2.6	27
10	Remote labs as learning services in the educational arena. , 2011, , .		26
11	A practice-based MOOC for learning electronics. , 2014, , .		26
12	Blended learning system for efficient professional driving. Computers and Education, 2014, 78, 124-139.	8.3	23
13	Intensities and field enhancement of light scattered from periodic gratings: study OF Ag, Au and Cu surfaces. Surface Science, 1984, 143, 342-358.	1.9	20
14	Remote electronics lab within a MOOC: Design and preliminary results. , 2013, , .		19
15	Novel design and development of advanced remote electronics experiments. Computer Applications in Engineering Education, 2015, 23, 327-336.	3.4	18
16	Remote laboratories for electrical & electronic subjects in new engineering grades. , 2011, , .		14
17	VISIR deployment in undergraduate engineering practices. , 2011, , .		13
18	On the design of remote laboratories. , 2012, , .		12

#	Article	IF	Citations
19	Adaptive Streaming: A subjective catalog to assess the performance of objective QoE metrics. Network Protocols and Algorithms, 2014, 6, 123.	1.0	12
20	A learning environment for augmented reality mobile learning. , 2014, , .		12
21	An XML Modular Approach in the Building of Remote Labs by Students: A Way to Improve Learning. International Journal of Online and Biomedical Engineering, 2013, 9, 5.	1.4	11
22	The color of the light: A remote laboratory that uses a smart device that connects teachers and students. , 2014, , .		10
23	Online Experiments With DC/DC Converters Using the VISIR Remote Laboratory. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2015, 10, 310-318.	0.9	10
24	Subjective video quality evaluation of different content types under different impairments. New Review of Hypermedia and Multimedia, 2017, 23, 1-28.	1.1	10
25	PILAR: a Federation of VISIR Remote Laboratory Systems for Educational Open Activities. , 2018, , .		10
26	Remote laboratories for electronics and new steps in learning process integration. , 2016, , .		9
27	UNED OER Experience: From OCW to Open UNED. IEEE Transactions on Education, 2014, 57, 248-254.	2.4	8
28	Security Vulnerabilities in Raspberry Piâ€"Analysis of the System Weaknesses. IEEE Consumer Electronics Magazine, 2019, 8, 47-52.	2.3	8
29	Middleware for the Development of Context-Aware Applications inside m-Learning: Connecting e-Learning to the Mobile World. , 2009, , .		7
30	Lab sessions in VISIR laboratories. , 2016, , .		7
31	A methodology to evaluate driving efficiency for professional drivers based on a maturity model. Transportation Research Part C: Emerging Technologies, 2017, 85, 148-167.	7.6	7
32	Experimenting in PILAR federation: A common path for the future. , 2018, , .		7
33	Internet-based teaching evolution in Computer Architecture. , 2008, , .		6
34	Subjective evaluation of critical success factors for a QoE aware adaptive system. Computer Communications, 2013, 36, 1608-1620.	5.1	6
35	An Architecture for a Learning Analytics System Applied to Efficient Driving. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2016, 11, 137-145.	0.9	6
36	PILAR: Sharing VISIR Remote Labs Through a Federation. , 2019, , .		6

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37	IoT Remote Laboratory Based on ARM Device Extension of VISIR Remote Laboratories to Include IoT Support. Lecture Notes in Networks and Systems, 2020, , 269-279.	0.7	6
38	First-Principles Calculation of the Electronic Structure of Nonperiodic Solids: Application toaˆ’Si:H. Physical Review Letters, 1986, 56, 1731-1734.	7.8	5
39	Fingerprint Verification System in Tests in Moodle. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2013, 8, 23-30.	0.9	5
40	Adaptive learning for efficient driving in urban public transport. , 2015, , .		5
41	Formal characterization of an efficient driving evaluation process for companies of the transport sector. Transportation Research, Part A: Policy and Practice, 2016, 94, 431-445.	4.2	5
42	Increasing Engagement in a Network Security Management Course through Gamification. , 2019, , .		5
43	Proposals for Postgraduate Students to Reinforce Information Security Management Inside ITILÂ®. International Journal of Human Capital and Information Technology Professionals, 2011, 2, 16-25.	0.6	5
44	Practical experiences on building structured remote and virtual laboratories from the student's point of view. , 2012, , .		4
45	Teaching technology with CLIL methodology: A case study. , 2013, , .		4
46	Adaptation engine for a streaming service based on MPEG-DASH. Multimedia Tools and Applications, 2015, 74, 7983-8002.	3.9	4
47	Educational Scenarios Using Remote Laboratory VISIR for Electrical/Electronic Experimentation. Lecture Notes in Networks and Systems, 2018, , 298-303.	0.7	4
48	Analytic System to Evaluate Efficient Driving Programs in Professional Fleets. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1099-1111.	8.0	4
49	Applying a assessment tool in distance learning education. , 2011, , .		3
50	A Non-invasive and Autonomous Physical Activity Measurement System for the Elderly. , 2013, , .		3
51	Grid Remote Laboratory Management System. , 2013, , .		3
52	Open educational resources and standards in the eMadrid network. , 2016, , .		3
53	Sharing educational experiences from in-person classroom to collaborative lab environments. , 2017, , .		3
54	Work in progress: Proof of concept: Remote Laboratory Raspberry Pi + FPAA. , 2019, , .		3

#	Article	IF	Citations
55	Scaffolding online laboratory experiences as inclusive and motivational tools for students and teachers. , 2013, , .		2
56	Dynamic reconfiguration in FPAA and its use in education. , 2017, , .		2
57	Economic Impact of the Use of Inertia in an Urban Bus Company. Energies, 2017, 10, 1029.	3.1	2
58	Leveraging Interoperable Data to Improve Training Effectiveness Using the Experience API (XAPI). Lecture Notes in Computer Science, 2016, , 46-54.	1.3	2
59	Work in progress - initiative for the use of learning objects in the electronics labs practice. , 2008, , .		1
60	Special session: Remote-labs access in internet and performance learning environment projects. , 2013, , .		1
61	Widget and smart devices. A different aproach for online learning scenarios. , 2013, , .		1
62	Towards learning resources rankings in MOOCs: A pairwise based reputation mechanism. , 2015, , .		1
63	eMadrid project: Authoring, reuse and remote labs. , 2016, , .		1
64	Remote Laboratories Integration into Electronics Engineer Curricula. , 2018, , .		1
65	Dynamic reconfiguration in FPAA for technical and nontechnical education in a global environment. Computer Applications in Engineering Education, 2021, 29, 911-930.	3.4	1
66	Proyectos e Investigación para la mejora de la Educación y el uso de la Tecnología en la Ingeniería. Revista De Docencia Universitaria, 0, 11, 301.	0.3	1
67	MOOCS EXPERIENCES FROM 2012 TO 2016. FROM COMMUNITIES AND CONTESTS TO PRACTICE-BASED MOOCS AND CERTIFICATIONS. EDULEARN Proceedings, 2017, , .	0.0	1
68	A Framework to Measure and Estimate Video Quality in SVC Real-Time Adaptive Systems. International Journal of Business Data Communications and Networking, 2014, 10, 47-64.	0.7	0
69	Enhancing higher education experience: The eMadrid initiative at UNED university. , 2014, , .		0
70	Non-isolated linear/switching regulated DC/DC converter for remote experimentation. , 2014, , .		0
71	Limits for the real-time simulation of video services over commodity hardware. Journal of Simulation, 2016, 10, 251-259.	1.5	0
72	Impact of Efficient Driving in Professional Bus Fleets. Energies, 2017, 10, 2060.	3.1	0

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73	VULNERABILIDADES DE SEGURIDAD EN SISTEMAS EMBEBIDOS. Dyna (Spain), 2016, 91, 484-484.	0.2	0
74	ANÁLISIS DE RIESGOS Y RECOMENDACIONES DE DISEÃ'O ELECTRÃ"NICO CON ARDUINO. Dyna (Spain), 2017, 92, 607-608.	0.2	0
75	Security Management on Arduino-Based Electronic Devices. IEEE Consumer Electronics Magazine, 2023, 12, 72-84.	2.3	0