Denis Gillet

List of Publications by Year
in descending order

126	1,836	567144 15	454834 30
papers	citations	h-index	g-index

129	129	129	1378
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Innovations in STEM education: the Go-Lab federation of online labs. Smart Learning Environments, 2014, 1, .	4.3	164
2	Collaborative Web-Based Experimentation in Flexible Engineering Education. IEEE Transactions on Education, 2005, 48, 696-704.	2.0	140
3	Information technology enhanced learning in distance and conventional education. IEEE Transactions on Education, 1999, 42, 247-254.	2.0	109
4	Model predictive coordination of autonomous vehicles crossing intersections. , 2013, , .		54
5	Fluent coordination of autonomous vehicles at intersections. , 2012, , .		45
6	Reciprocal collision avoidance for quadrotors using on-board visual detection. , 2015, , .		41
7	Turning Web 2.0 Social Software into Versatile Collaborative Learning Solutions. , 2008, , .		40
8	A social media platform in higher education. , 2012, , .		39
9	Vision-based Unmanned Aerial Vehicle detection and tracking for sense and avoid systems. , 2016, , .		38
10	Personal learning environments in a global higher engineering education Web 2.0 realm. , 2010, , .		36
11	The Smart Device specification for remote labs. , 2015, , .		36
12	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.	0.7	35
13	Towards an Online Lab Portal for Inquiry-Based STEM Learning at School. Lecture Notes in Computer Science, 2013, , 244-253.	1.0	34
14	Web-Enabled Remote Scientific Environments. Computing in Science and Engineering, 2009, 11, 36-46.	1.2	32
15	A musculoskeletal shoulder model based on pseudo-inverse and null-space optimization. Medical Engineering and Physics, 2010, 32, 1050-1056.	0.8	32
16	A Systematic Two-Layer Approach to Develop Web-Based Experimentation Environments for Control Engineering Education. Intelligent Automation and Soft Computing, 2008, 14, 505-524.	1.6	29
17	Towards Portable Learning Analytics Dashboards. , 2013, , .		29
18	Smart device paradigm, Standardization for online labs. , 2013, , .		28

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19	Using educational data from teaching and learning to inform teachersâ€™ reflective educational design in inquiry-based STEM education. Computers in Human Behavior, 2019, 92, 724-738.	5.1	28
20	Advanced control strategy of a solar domestic hot water system with a segmented auxiliary heater. Energy and Buildings, 2001, 33, 463-475.	3.1	27
21	Identifying influential scholars in academic social media platforms. , 2013, , .		25
22	Laboratory as a Service (LaaS): A model for developing and implementing remote laboratories as modular components. , 2014, , .		24
23	A therapy parameter-based model for predicting blood glucose concentrations in patients with type 1 diabetes. Computer Methods and Programs in Biomedicine, 2015, 118, 107-123.	2.6	24
24	Strategy for the Control of a Dual-stage Nano-positioning System with a Single Metrology. , 2006, , .		22
25	Self-Organized Laboratories for Smart Campus. IEEE Transactions on Learning Technologies, 2020, 13, 404-416.	2.2	22
26	Gamifying knowledge sharing in humanitarian organisations: a design science journey. European Journal of Information Systems, 2020, 29, 153-171.	5.5	22
27	Personal learning environments as enablers for connectivist MOOCs. , 2013, , .		21
28	The 3A Interaction Model: Towards Bridging the Gap between Formal and Informal Learning. , 2010, , .		20
29	Instruction, Student Engagement, and Learning Outcomes: A Case Study Using Anonymous Social Media in a Face-to-Face Classroom. IEEE Transactions on Learning Technologies, 2020, 13, 718-733.	2.2	20
30	The Electronic Laboratory Journal: A Collaborative and Cooperative Learning Environment for Web-Based Experimentation. Computer Supported Cooperative Work, 2005, 14, 189-216.	1.9	19
31	Virtual Vehicle-Based Cooperative Maneuver Planning for Connected Automated Vehicles at Single-Lane Roundabouts. IEEE Intelligent Transportation Systems Magazine, 2018, 10, 35-46.	2.6	17
32	3D collision avoidance algorithm for Unmanned Aerial Vehicles with limited field of view constraints. , 2016, , .		16
33	From LMS to PLE: A Step Forward through OpenSocial Apps in Moodle. Lecture Notes in Computer Science, 2012, , 69-78.	1.0	15
34	Peer assessment based on ratings in a social media course. , 2014, , .		15
35	Collision avoidance in next-generation fiber positioner robotic systems for large survey spectrographs. Astronomy and Astrophysics, 2014, 566, A84.	2.1	15
36	The Smart Device Specification for Remote Labs. International Journal of Online and Biomedical Engineering, 2015, 11, 20.	0.9	15

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37	Distributed deconfliction algorithm for Unmanned Aerial Vehicles with limited range and field of view sensors. , 2015, , .		15
38	Rich open educational resources for personal and inquiry learning: Agile creation, sharing and reuse in educational social media platforms. , 2014, , .		14
39	Blending Digital and Face-to-Face Interaction Using a Co-Located Social Media App in Class. IEEE Transactions on Learning Technologies, 2018, 11, 478-492.	2.2	13
40	Not Yet Ready for Everyone: An Experience Report about a Personal Learning Environment for Language Learning. Lecture Notes in Computer Science, 2010, , 269-278.	1.0	13
41	Graaasp. , 2010, , .		12
42	Speakup in the classroom. , 2014, , .		12
43	An 8-mm diameter fibre robot positioner for massive spectroscopy surveys. Monthly Notices of the Royal Astronomical Society, 2015, 450, 794-806.	1.6	12
44	Contextual learning analytics apps to create awareness in blended inquiry learning. , 2015, , .		11
45	A Virtual Assistant for Web-Based Training in Engineering Education. Lecture Notes in Computer Science, 2002, , 301-310.	1.0	11
46	A hamilton-jacobi formulation for cooperative control of multi-agent systems. , 2009, , .		10
47	Collision-free intersection crossing of mobile robots using decentralized navigation functions on predefined paths. , 2011, , .		10
48	Microsimulation Modeling of Coordination of Automated Guided Vehicles at Intersections. Transportation Research Record, 2012, 2324, 119-124.	1.0	10
49	The color of the light: A remote laboratory that uses a smart device that connects teachers and students. , 2014, , .		10
50	Occlusion-Aware Motion Planning at Roundabouts. IEEE Transactions on Intelligent Vehicles, 2021, 6, 276-287.	9.4	10
51	Integrated Model for Comprehensive Digital Education Platforms. , 2022, , .		10
52	The eLogBook Framework. International Journal of Web-Based Learning and Teaching Technologies, 2007, 2, 61-76.	0.6	9
53	End-to-end adaptation scheme for ubiquitous remote experimentation. Personal and Ubiquitous Computing, 2009, 13, 181-196.	1.9	9
54	Quality of experience for adaptation in augmented reality. , 2009, , .		9

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55	Cloud-Savvy contextual spaces as agile personal learning environments or informal knowledge management solutions. , 2013, , .		9
56	Speed profile optimization for vehicles crossing an intersection under a safety constraint. , 2014, , .		9
57	Enabling the Automatic Generation of User Interfaces for Remote Laboratories. Lecture Notes in Networks and Systems, 2018, , 778-793.	0.5	9
58	SpeakUp â€“ A Mobile App Facilitating Audience Interaction. Lecture Notes in Computer Science, 2013, , 11-20.	1.0	9
59	Complete coordination of robotic fiber positioners for massive spectroscopic surveys. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.0	9
60	On decentralized navigation schemes for coordination of multi-agent dynamical systems. , 2009, , .		8
61	Preclinically assessed optimal control of postprandial glucose excursions for type 1 patients with diabetes. , 2011, , .		8
62	A Federated Recommender System for Online Learning Environments. Lecture Notes in Computer Science, 2012, , 89-98.	1.0	8
63	Massive Open Online Labs (MOOLs): An Innovative Solution to Achieving SDGs in the Global South. , 2019, , .		8
64	Using Social Software for Teamwork and Collaborative Project Management in Higher Education. Lecture Notes in Computer Science, 2010, , 161-170.	1.0	8
65	Priority coordination of fiber positioners in multi-objects spectrographs. , 2018, , .		8
66	Impersonating Chatbots in a Code Review Exercise to Teach Software Engineering Best Practices. , 2022, , .		8
67	The PRIMA Astrometric Planet Search project. , 2004, , .		7
68	Defining the Critical Factors in the Architectural Design of Remote Laboratories. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2015, 10, 269-279.	0.7	7
69	Cloud ecosystem for supporting inquiry learning with online labs: Creation, personalization, and exploitation. , 2017, , .		7
70	Deploying Large-Scale Online Labs with Smart Devices. , 2018, , 43-78.		7
71	Supervisory Coordination of Robotic Fiber Positioners in Multi-Object Spectrographs. IFAC-PapersOnLine, 2019, 52, 61-66.	0.5	7
72	Monitoring, awareness and reflection in blended technology enhanced learning: a systematic review. International Journal of Technology Enhanced Learning, 2017, 9, 126.	0.4	7

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73	Distributed architecture for teleoperation over the internet. , 2001, , 399-407.		6
74	Information sharing among autonomous vehicles crossing an intersection. , 2012, , .		6
75	The Navigation of Robotic Fiber Positioners in SDSS-V Project: Design and Implementation. , 2019, , .		6
76	Towards PLEs throughwidget spaces in Moodle. Computer Science and Information Systems, 2014, 11, 443-460.	0.7	6
77	A Global Remote Laboratory Experimentation Network and the Experiment Service Provider Business Model and Plans. Modeling, Identification and Control, 2003, 24, 159-168.	0.6	6
78	Promoting Computational Thinking Skills in Non-Computer-Science Students: Gamifying Computational Notebooks to Increase Student Engagement. IEEE Transactions on Learning Technologies, 2022, 15, 392-405.	2.2	6
79	An Institutional Personal Learning Environment Enabler. , 2012, , .		5
80	Autonomous coordination of heterogeneous vehicles at roundabouts. , 2016, , .		5
81	ADA for IBL: Lessons Learned in Aligning Learning Design and Analytics for Inquiry-Based Learning Orchestration. Journal of Learning Analytics, 2021, 8, 22-50.	1.8	5
82	A Competence Bartering Platform for Learners. Lecture Notes in Computer Science, 2011, , 148-153.	1.0	5
83	Standardization Layers for Remote Laboratories as Services and Open Educational Resources. Lecture Notes in Networks and Systems, 2018, , 874-884.	0.5	5
84	Promoting Critical and Design Thinking Activities to Tackle Sustainable Development Goals in Higher Education. , 2021, , .		5
85	Framework for Fast Real-Time Applications in Automatic Control Education. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 299-304.	0.4	4
86	Reinventing Mobile Community Computing and Communication. , 2013, , .		4
87	Early awareness of Global Issues and development of soft skills in engineering education: An interdisciplinary approach to communication. , 2014, , .		4
88	AngeLA: Putting the teacher in control of student privacy in the online classroom. , 2014, , .		4
89	Graspeo. , 2015, , .		4
90	Special Sessionâ€"Online Laboratories in Engineering Education: Innovation, Disruption, and Future Potential. , 2018, , .		4

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91	Next Steps in Supporting More Students in MOOL for Control Education. IFAC-PapersOnLine, 2018, 51, 184-189.	0.5	4
92	Examining the Effects of Social Media in Co-located Classrooms: A Case Study Based on SpeakUp. Lecture Notes in Computer Science, 2016, , 247-262.	1.0	4
93	Remote lab: online support and awareness analysis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8135-8140.	0.4	3
94	Dynamical biomechanical model of the shoulder: Null space based optimization of the overactuated system.. , 2009, , .		3
95	Trust-based rating prediction for recommendation in Web 2.0 collaborative learning social software. , 2010, , .		3
96	OpenSocial Application Builder and Customizer for School Teachers. , 2014, , .		3
97	New Tools for MOOC/MOOL to Sustain Continuity of Experimentation in Control. IFAC-PapersOnLine, 2019, 52, 254-259.	0.5	3
98	Towards Open Data in Digital Education Platforms. , 2019, , .		3
99	Astrobotics: Swarm Robotics for Astrophysical Studies. IEEE Robotics and Automation Magazine, 2021, 28, 92-101.	2.2	3
100	Web 2.0 Open Remote and Virtual Laboratories in Engineering Education. , 2014, , 559-580.		3
101	Iterative Design and Evaluation of a Web-Based Experimentation Environment. , 0, , 286-313.		3
102	A Minimal Exercise Extension for Models of the Glucoregulatory System. Computer Aided Chemical Engineering, 2011, 29, 1520-1524.	0.3	2
103	Mobility-on-demand scenarios relying on lightweight autonomous and connected vehicles for large pedestrian areas and intermodal hubs. , 2017, , .		2
104	Promoting and Implementing Digital STEM Education at Secondary Schools in Africa. , 2019, , .		2
105	Heterogeneous Target Assignment to Robotic Fiber Positioner Systems. , 2019, , .		2
106	6 th ÂSenseâ€“ Toward a Generic Framework for End-to-End Adaptive Wearable Augmented Reality. Lecture Notes in Computer Science, 2009, , 280-310.	1.0	2
107	Web 2.0 Open Remote and Virtual Laboratories in Engineering Education. Advances in Higher Education and Professional Development Book Series, 2012, , 369-390.	0.1	2
108	STEM Teachersâ€™ Community Building Through a Social Tutoring Platform. Lecture Notes in Computer Science, 2015, , 238-244.	1.0	2

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109	Supporting Developers in Creating Web Apps for Education via an App Development Framework. , 0, , .		2
110	Framework for Sustaining Collaboration in Laboratory-Oriented Communities of Practice. , 2006, , .		1
111	Widget and smart devices. A different aproach for online learning scenarios. , 2013, , .		1
112	Critical factors in the architectural design of modern educational remote laboratories. , 2014, , .		1
113	Developing micro DC-brushless motor driver and position control for fiber positioners. Proceedings of SPIE, 2014, , .	0.8	1
114	Collision-free motion planning for fiber positioner robots: discretization of velocity profiles. Proceedings of SPIE, 2014, , .	0.8	1
115	Lessons Learned from the Development of the ROLE PLE Framework. , 2015, , 185-217.		1
116	Rule of thumb. , 2016, , .		1
117	A Comparative Study of Collision Avoidance Algorithms for Unmanned Aerial Vehicles: Performance and Robustness to Noise. Springer Proceedings in Advanced Robotics, 2018, , 75-88.	0.9	1
118	Data-Driven Convergence Prediction of Astrobots Swarms. IEEE Transactions on Automation Science and Engineering, 2022, 19, 747-758.	3.4	1
119	Interactive Lab Experimentation and Simulation Tools for Remote Laboratories. Lecture Notes in Networks and Systems, 2022, , 66-77.	0.5	1
120	Experimental evaluation of complete safe coordination of astrobots for Sloan Digital Sky Survey V. Experimental Astronomy, 2021, 51, 77-94.	1.6	1
121	Combining the Knowledge Appropriation Model and epistemic networks to understand co-creation and adoption of learning designs using log data. Edutec, 2020, , 190-205.	0.2	1
122	PRIMA astrometry operations and software. , 2004, , .		0
123	SkillsRec: A Novel Semantic Analysis Driven Learner Skills Mining and Filtering Approach for Personal Learning Environments Based on Teacher Guidance. , 2015, , .		0
124	GraaspBox. , 2017, , .		0
125	Learning convergence prediction of astrobots in multi-object spectrographs. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.0	0
126	The perceptions of using instant interaction applications for enhancing peer discussion in a flipped classroom. International Journal of Mobile Learning and Organisation, 2017, 11, 1.	0.2	0