

Denis Gillet

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

1,836
citations

567144

15
h-index

454834

30
g-index

129
all docs

129
docs citations

129
times ranked

1378
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-Driven Convergence Prediction of Astrobots Swarms. IEEE Transactions on Automation Science and Engineering, 2022, 19, 747-758.	3.4	1
2	Interactive Lab Experimentation and Simulation Tools for Remote Laboratories. Lecture Notes in Networks and Systems, 2022, , 66-77.	0.5	1
3	Impersonating Chatbots in a Code Review Exercise to Teach Software Engineering Best Practices. , 2022, , .		8
4	Integrated Model for Comprehensive Digital Education Platforms. , 2022, , .		10
5	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
6	Occlusion-Aware Motion Planning at Roundabouts. IEEE Transactions on Intelligent Vehicles, 2021, 6, 276-287.	9.4	10
7	Learning convergence prediction of astrobots in multi-object spectrographs. Journal of Astronomical Telescopes, Instruments, and Systems, 2021, 7, .	1.0	0
8	Astrobotics: Swarm Robotics for Astrophysical Studies. IEEE Robotics and Automation Magazine, 2021, 28, 92-101.	2.2	3
9	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
10	Experimental evaluation of complete safe coordination of astrobots for Sloan Digital Sky Survey V. Experimental Astronomy, 2021, 51, 77-94.	1.6	1
11	Promoting Critical and Design Thinking Activities to Tackle Sustainable Development Goals in Higher Education. , 2021, , .		5
12	Self-Organized Laboratories for Smart Campus. IEEE Transactions on Learning Technologies, 2020, 13, 404-416.	2.2	22
13	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
14	Gamifying knowledge sharing in humanitarian organisations: a design science journey. European Journal of Information Systems, 2020, 29, 153-171.	5.5	22
15	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
16	The Navigation of Robotic Fiber Positioners in SDSS-V Project: Design and Implementation. , 2019, , .		6
17	Promoting and Implementing Digital STEM Education at Secondary Schools in Africa. , 2019, , .		2
18	Supervisory Coordination of Robotic Fiber Positioners in Multi-Object Spectrographs. IFAC-PapersOnLine, 2019, 52, 61-66.	0.5	7

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19	New Tools for MOOC/MOOL to Sustain Continuity of Experimentation in Control. IFAC-PapersOnLine, 2019, 52, 254-259.	0.5	3
20	Towards Open Data in Digital Education Platforms. , 2019, , .		3
21	Massive Open Online Labs (MOOLs): An Innovative Solution to Achieving SDGs in the Global South. , 2019, , .		8
22	Heterogeneous Target Assignment to Robotic Fiber Positioner Systems. , 2019, , .		2
23	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
24	Complete coordination of robotic fiber positioners for massive spectroscopic surveys. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.0	9
25	Deploying Large-Scale Online Labs with Smart Devices. , 2018, , 43-78.		7
26	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
27	Special Sessionâ€™ Online Laboratories in Engineering Education: Innovation, Disruption, and Future Potential. , 2018, , .		4
28	Next Steps in Supporting More Students in MOOL for Control Education. IFAC-PapersOnLine, 2018, 51, 184-189.	0.5	4
29	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
30	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
31	Enabling the Automatic Generation of User Interfaces for Remote Laboratories. Lecture Notes in Networks and Systems, 2018, , 778-793.	0.5	9
32	Priority coordination of fiber positioners in multi-objects spectrographs. , 2018, , .		8
33	Standardization Layers for Remote Laboratories as Services and Open Educational Resources. Lecture Notes in Networks and Systems, 2018, , 874-884.	0.5	5
34	Cloud ecosystem for supporting inquiry learning with online labs: Creation, personalization, and exploitation. , 2017, , .		7
35	Mobility-on-demand scenarios relying on lightweight autonomous and connected vehicles for large pedestrian areas and intermodal hubs. , 2017, , .		2
36	GraaspBox. , 2017, , .		0

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37	Monitoring, awareness and reflection in blended technology enhanced learning: a systematic review. International Journal of Technology Enhanced Learning, 2017, 9, 126.	0.4	7
38	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
39	3D collision avoidance algorithm for Unmanned Aerial Vehicles with limited field of view constraints. , 2016, , .		16
40	Vision-based Unmanned Aerial Vehicle detection and tracking for sense and avoid systems. , 2016, , .		38
41	Rule of thumb. , 2016, , .		1
42	Autonomous coordination of heterogeneous vehicles at roundabouts. , 2016, , .		5
43	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
44	The Smart Device Specification for Remote Labs. International Journal of Online and Biomedical Engineering, 2015, 11, 20.	0.9	15
45	SkillsRec: A Novel Semantic Analysis Driven Learner Skills Mining and Filtering Approach for Personal Learning Environments Based on Teacher Guidance. , 2015, , .		0
46	Contextual learning analytics apps to create awareness in blended inquiry learning. , 2015, , .		11
47	Distributed deconfliction algorithm for Unmanned Aerial Vehicles with limited range and field of view sensors. , 2015, , .		15
48	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
49	Defining the Critical Factors in the Architectural Design of Remote Laboratories. Revista Iberoamericana De Tecnologias Del Aprendizaje, 2015, 10, 269-279.	0.7	7
50	Reciprocal collision avoidance for quadrotors using on-board visual detection. , 2015, , .		41
51	Lessons Learned from the Development of the ROLE PLE Framework. , 2015, , 185-217.		1
52	The Smart Device specification for remote labs. , 2015, , .		36
53	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
54	Graspeo. , 2015, , .		4

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55	A therapy parameter-based model for predicting blood glucose concentrations in patients with type 1 diabetes. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 118, 107-123.	2.6	24
56	STEM Teachersâ€™ Community Building Through a Social Tutoring Platform. <i>Lecture Notes in Computer Science</i> , 2015, , 238-244.	1.0	2
57	Speed profile optimization for vehicles crossing an intersection under a safety constraint. , 2014, , .		9
58	Peer assessment based on ratings in a social media course. , 2014, , .		15
59	Critical factors in the architectural design of modern educational remote laboratories. , 2014, , .		1
60	Early awareness of Global Issues and development of soft skills in engineering education: An interdisciplinary approach to communication. , 2014, , .		4
61	AngeLA: Putting the teacher in control of student privacy in the online classroom. , 2014, , .		4
62	Speakup in the classroom. , 2014, , .		12
63	Laboratory as a Service (LaaS): A model for developing and implementing remote laboratories as modular components. , 2014, , .		24
64	Developing micro DC-brushless motor driver and position control for fiber positioners. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
65	Innovations in STEM education: the Go-Lab federation of online labs. <i>Smart Learning Environments</i> , 2014, 1, .	4.3	164
66	Rich open educational resources for personal and inquiry learning: Agile creation, sharing and reuse in educational social media platforms. , 2014, , .		14
67	OpenSocial Application Builder and Customizer for School Teachers. , 2014, , .		3
68	The color of the light: A remote laboratory that uses a smart device that connects teachers and students. , 2014, , .		10
69	Collision avoidance in next-generation fiber positioner robotic systems for large survey spectrographs. <i>Astronomy and Astrophysics</i> , 2014, 566, A84.	2.1	15
70	Collision-free motion planning for fiber positioner robots: discretization of velocity profiles. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
71	Towards PLEs through widget spaces in Moodle. <i>Computer Science and Information Systems</i> , 2014, 11, 443-460.	0.7	6
72	Web 2.0 Open Remote and Virtual Laboratories in Engineering Education. , 2014, , 559-580.		3

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73	Smart device paradigm, Standardization for online labs. , 2013, , .		28
74	Cloud-Savvy contextual spaces as agile personal learning environments or informal knowledge management solutions. , 2013, , .		9
75	Widget and smart devices. A different aproach for online learning scenarios. , 2013, , .		1
76	Identifying influential scholars in academic social media platforms. , 2013, , .		25
77	Towards Portable Learning Analytics Dashboards. , 2013, , .		29
78	Model predictive coordination of autonomous vehicles crossing intersections. , 2013, , .		54
79	Reinventing Mobile Community Computing and Communication. , 2013, , .		4
80	Personal learning environments as enablers for connectivist MOOCs. , 2013, , .		21
81	SpeakUp â€™ A Mobile App Facilitating Audience Interaction. Lecture Notes in Computer Science, 2013, , 11-20.	1.0	9
82	Towards an Online Lab Portal for Inquiry-Based STEM Learning at School. Lecture Notes in Computer Science, 2013, , 244-253.	1.0	34
83	Fluent coordination of autonomous vehicles at intersections. , 2012, , .		45
84	Information sharing among autonomous vehicles crossing an intersection. , 2012, , .		6
85	An Institutional Personal Learning Environment Enabler. , 2012, , .		5
86	A social media platform in higher education. , 2012, , .		39
87	Microsimulation Modeling of Coordination of Automated Guided Vehicles at Intersections. Transportation Research Record, 2012, 2324, 119-124.	1.0	10
88	From LMS to PLE: A Step Forward through OpenSocial Apps in Moodle. Lecture Notes in Computer Science, 2012, , 69-78.	1.0	15
89	A Federated Recommender System for Online Learning Environments. Lecture Notes in Computer Science, 2012, , 89-98.	1.0	8
90	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

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91	Preclinically assessed optimal control of postprandial glucose excursions for type 1 patients with diabetes. , 2011, , .		8
92	Collision-free intersection crossing of mobile robots using decentralized navigation functions on predefined paths. , 2011, , .		10
93	A Minimal Exercise Extension for Models of the Glucoregulatory System. Computer Aided Chemical Engineering, 2011, 29, 1520-1524.	0.3	2
94	A Competence Bartering Platform for Learners. Lecture Notes in Computer Science, 2011, , 148-153.	1.0	5
95	A musculoskeletal shoulder model based on pseudo-inverse and null-space optimization. Medical Engineering and Physics, 2010, 32, 1050-1056.	0.8	32
96	Trust-based rating prediction for recommendation in Web 2.0 collaborative learning social software. , 2010, , .		3
97	Graaasp. , 2010, , .		12
98	The 3A Interaction Model: Towards Bridging the Gap between Formal and Informal Learning. , 2010, , .		20
99	Personal learning environments in a global higher engineering education Web 2.0 realm. , 2010, , .		36
100	Using Social Software for Teamwork and Collaborative Project Management in Higher Education. Lecture Notes in Computer Science, 2010, , 161-170.	1.0	8
101	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
102	Web-Enabled Remote Scientific Environments. Computing in Science and Engineering, 2009, 11, 36-46.	1.2	32
103	End-to-end adaptation scheme for ubiquitous remote experimentation. Personal and Ubiquitous Computing, 2009, 13, 181-196.	1.9	9
104	A hamilton-jacobi formulation for cooperative control of multi-agent systems. , 2009, , .		10
105	Dynamical biomechanical model of the shoulder: Null space based optimization of the overactuated system.. , 2009, , .		3
106	Quality of experience for adaptation in augmented reality. , 2009, , .		9
107	On decentralized navigation schemes for coordination of multi-agent dynamical systems. , 2009, , .		8
108	6 th "Sense" Toward a Generic Framework for End-to-End Adaptive Wearable Augmented Reality. Lecture Notes in Computer Science, 2009, , 280-310.	1.0	2

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109	Turning Web 2.0 Social Software into Versatile Collaborative Learning Solutions. , 2008, , .		40
110	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
111	Remote lab: online support and awareness analysis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8135-8140.	0.4	3
112	The eLogBook Framework. International Journal of Web-Based Learning and Teaching Technologies, 2007, 2, 61-76.	0.6	9
113	Strategy for the Control of a Dual-stage Nano-positioning System with a Single Metrology. , 2006, , .		22
114	Framework for Sustaining Collaboration in Laboratory-Oriented Communities of Practice. , 2006, , .		1
115	Collaborative Web-Based Experimentation in Flexible Engineering Education. IEEE Transactions on Education, 2005, 48, 696-704.	2.0	140
116	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
117	PRIMA astrometry operations and software. , 2004, , .		0
118	The PRIMA Astrometric Planet Search project. , 2004, , .		7
119	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
120	A Virtual Assistant for Web-Based Training in Engineering Education. Lecture Notes in Computer Science, 2002, , 301-310.	1.0	11
121	Distributed architecture for teleoperation over the internet. , 2001, , 399-407.		6
122	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
123	Information technology enhanced learning in distance and conventional education. IEEE Transactions on Education, 1999, 42, 247-254.	2.0	109
124	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
125	Iterative Design and Evaluation of a Web-Based Experimentation Environment. , 0, , 286-313.		3
126	Supporting Developers in Creating Web Apps for Education via an App Development Framework. , 0, , .		2