Julien R Serres

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3755704/publications.pdf

Version: 2024-02-01

567281 552781 1,077 45 15 26 citations h-index g-index papers 52 52 52 805 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	A Bio-Inspired Flying Robot Sheds Light on Insect Piloting Abilities. Current Biology, 2007, 17, 329-335.	3.9	157
2	Fast reproducible identification and large-scale databasing of individual functional cognitive networks. BMC Neuroscience, 2007, 8, 91.	1.9	112
3	Optic flow-based collision-free strategies: From insects to robots. Arthropod Structure and Development, 2017, 46, 703-717.	1.4	112
4	AntBot: A six-legged walking robot able to home like desert ants in outdoor environments. Science Robotics, 2019, 4, .	17.6	97
5	A vision-based autopilot for a miniature air vehicle: joint speed control and lateral obstacle avoidance. Autonomous Robots, 2008, 25, 103-122.	4.8	80
6	A bee in the corridor: centering and wall-following. Die Naturwissenschaften, 2008, 95, 1181-1187.	1.6	68
7	Compact and high performance wind actuated venturi triboelectric energy harvester. Nano Energy, 2019, 62, 449-457.	16.0	46
8	An ant-inspired celestial compass applied to autonomous outdoor robot navigation. Robotics and Autonomous Systems, 2019, 117, 40-56.	5.1	42
9	Toward Optic Flow Regulation for Wall-Following and Centring Behaviours. International Journal of Advanced Robotic Systems, 2006, 3, 23.	2.1	39
10	Modelling honeybee visual guidance in a 3-D environment. Journal of Physiology (Paris), 2010, 104, 27-39.	2.1	34
11	Insect-Inspired Robots: Bridging Biological and Artificial Systems. Sensors, 2021, 21, 7609.	3.8	32
12	A biomimetic vision-based hovercraft accounts for bees' complex behaviour in various corridors. Bioinspiration and Biomimetics, 2014, 9, 036003.	2.9	28
13	Altitude control in honeybees: joint vision-based learning and guidance. Scientific Reports, 2017, 7, 9231.	3.3	26
14	Polarized skylight-based heading measurements: a bio-inspired approach. Journal of the Royal Society Interface, 2019, 16, 20180878.	3.4	25
15	Optic flow cues help explain altitude control over sea in freely flying gulls. Journal of the Royal Society Interface, 2019, 16, 20190486.	3.4	16
16	Optic Flow Based Visual Guidance: From Flying Insects to Miniature Aerial Vehicles. , 0, , .		15
17	Time-of-Travel Methods for Measuring Optical Flow on Board a Micro Flying Robot. Sensors, 2017, 17, 571.	3.8	15
18	A novel insect-inspired optical compass sensor for a hexapod walking robot. , 2017, , .		14

#	Article	IF	CITATIONS
19	A bio-inspired celestial compass applied to an ant-inspired robot for autonomous navigation. , 2017, , .		13
20	Biomimetic Autopilot Based on Minimalistic Motion Vision for Navigating along Corridors Comprising U-shaped and S-shaped Turns. Journal of Bionic Engineering, 2015, 12, 47-60.	5.0	12
21	Insect-inspired vision for autonomous vehicles. Current Opinion in Insect Science, 2018, 30, 46-51.	4.4	12
22	A fully-autonomous hovercraft inspired by bees: Wall following and speed control in straight and tapered corridors. , 2012 , , .		11
23	Two optic flow regulators for speed control and obstacle avoidance. , 0, , .		9
24	Neuromimetic Robots Inspired by Insect Vision. Advances in Science and Technology, 2008, 58, 127-136.	0.2	8
25	Toward an insect-inspired event-based autopilot combining both visual and control events. , 2017, , .		5
26	A Hexapod Walking Robot Mimicking Navigation Strategies of Desert Ants Cataglyphis. Lecture Notes in Computer Science, 2018, , 145-156.	1.3	5
27	A 3D insect-inspired visual autopilot for corridor-following. , 2008, , .		4
28	Combining sound and optic fow cues to reach a sound source despite lateral obstacles. , 2008, , .		4
29	Ecological Entomology: How Is Gibson's Framework Useful?. Insects, 2021, 12, 1075.	2.2	4
30	A quasi-panoramic bio-inspired eye for flying parallel to walls. , 2017, , .		3
31	M ² APix: A Bio-Inspired Auto-Adaptive Visual Sensor for Robust Ground Height Estimation. , 2018, , .		3
32	Ecological design of augmentation improves helicopter ship landing maneuvers: An approach in augmented virtuality. PLoS ONE, 2021, 16, e0255779.	2.5	3
33	Optic Flow Based Autopilots: Speed Control and Obstacle Avoidance. , 2009, , 29-50.		3
34	Insect Inspired Autopilots. Journal of Aero Aqua Bio-mechanisms, 2010, 1, 2-10.	1.0	3
35	Floor and ceiling mirror configurations to study altitude control in honeybees. Biology Letters, 2022, 18, 20210534.	2.3	3
36	Event-based visual guidance inspired by honeybees in a 3D tapered tunnel. , 2016, , .		2

#	Article	IF	CITATIONS
37	Bio-inspired celestial compass yields new opportunities for urban localization. , 2020, , .		2
38	Helicopter Pilots Synchronize Their Altitude with Ship Heave to Minimize Energy When Landing on a Ship's Deck. International Journal of Aerospace Psychology, 2021, 31, 135-148.	0.9	2
39	INSECT INSPIRED VISUAL MOTION SENSING AND FLYING ROBOTS. World Scientific Series in Nanoscience and Nanotechnology, 2014, , 565-611.	0.1	1
40	Field Programmable Gate Array (FPGA) for Bio-Inspired Visuo-Motor Control Systems Applied to Micro-Air Vehicles. , 2009, , .		0
41	Taking Inspiration from Flying Insects to Navigate inside Buildings. , 2018, , .		O
42	Insect-inspired omnidirectional vision for autonomous localization on-board a hexapod robot. , 2020, , .		0
43	Aerial Navigation and Optic Flow SensingA Biorobotic Approach. , 2010, , 451-477.		0
44	AntBot is able to go home like desert ants. TheScienceBreaker, 2019, 05, .	0.0	0
45	Le robot fourmi AntBot. Techniques and Culture, 2020, , 128-141.	0.1	0