Tim Landgraf

List of Publications by Year
in descending order

36	933	516681 16	501174 28
papers	citations	h-index	g-index

44	44	44	713
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fish waves as emergent collective antipredator behavior. Current Biology, 2022, 32, 708-714.e4.	3.9	25
2	Biomimetic robots promote the 3Rs Principle in animal testing. , 2021, , .		2
3	Social networks predict the life and death of honey bees. Nature Communications, 2021, 12, 1110.	12.8	60
4	Animal-in-the-Loop: Using Interactive Robotic Conspecifics to Study Social Behavior in Animal Groups. Annual Review of Control, Robotics, and Autonomous Systems, 2021, 4, 487-507.	11.8	18
5	A Flying Platform to Investigate Neuronal Correlates of Navigation in the Honey Bee (Apis mellifera). Frontiers in Behavioral Neuroscience, 2021, 15, 690571.	2.0	5
6	Electric signal synchronization as a behavioural strategy to generate social attention in small groups of mormyrid weakly electric fish and a mobile fish robot. Biological Cybernetics, 2021, 115, 599-613.	1.3	9
7	Impact of Variable Speed on Collective Movement of Animal Groups. Frontiers in Physics, 2021, 9, .	2.1	13
8	Consistent Behavioral Syndrome Across Seasons in an Invasive Freshwater Fish. Frontiers in Ecology and Evolution, 2021, 8, .	2.2	14
9	Group-level patterns emerge from individual speed as revealed by an extremely social robotic fish. Biology Letters, 2020, 16, 20200436.	2.3	18
10	Guppies Prefer to Follow Large (Robot) Leaders Irrespective of Own Size. Frontiers in Bioengineering and Biotechnology, 2020, 8, 441.	4.1	15
11	Robofish as Social Partner for Live Guppies. Lecture Notes in Computer Science, 2020, , 270-274.	1.3	0
12	Motion Dynamics of Foragers in Honey Bee Colonies. Lecture Notes in Computer Science, 2020, , 203-215.	1.3	0
13	A neural network model for familiarity and context learning during honeybee foraging flights. Biological Cybernetics, 2018, 112, 113-126.	1.3	39
14	Using a robotic fish to investigate individual differences in social responsiveness in the guppy. Royal Society Open Science, 2018, 5, 181026.	2.4	58
15	Insights into the Social Behavior of Surface and Cave-Dwelling Fish (Poecilia mexicana) in Light and Darkness through the Use of a Biomimetic Robot. Frontiers in Robotics and AI, 2018, 5, 3.	3.2	42
16	Tracking All Members of a Honey Bee Colony Over Their Lifetime Using Learned Models of Correspondence. Frontiers in Robotics and AI, 2018, 5, 35.	3.2	38
17	RenderGAN: Generating Realistic Labeled Data. Frontiers in Robotics and AI, 2018, 5, 66.	3.2	79
18	Evidence for mutual allocation of social attention through interactive signaling in a mormyrid weakly electric fish. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6852-6857.	7.1	22

#	Article	IF	Citations
19	Guidance of Navigating Honeybees by Learned Elongated Ground Structures. Frontiers in Behavioral Neuroscience, 2018, 12, 322.	2.0	21
20	Dancing attraction: followers of honey bee tremble and waggle dances exhibit similar behaviors. Biology Open, 2017, 6, 810-817.	1.2	6
21	Automatic detection and decoding of honey bee waggle dances. PLoS ONE, 2017, 12, e0188626.	2.5	29
22	KÃ¼nstliche Miniâ€Gehirne fÃ¼r Roboter. , 2017, , 135-150.		0
23	RoboFish: increased acceptance of interactive robotic fish with realistic eyes and natural motion patterns by live Trinidadian guppies. Bioinspiration and Biomimetics, 2016, 11, 015001.	2.9	92
24	Automatic methods for long-term tracking and the detection and decoding of communication dances in honeybees. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	49
25	Walking bumblebees memorize panorama and local cues in a laboratory test of navigation. Animal Behaviour, 2014, 97, 13-23.	1.9	28
26	Blending in with the Shoal: Robotic Fish Swarms for Investigating Strategies of Group Formation in Guppies. Lecture Notes in Computer Science, 2014, , 178-189.	1.3	31
27	Electro-communicating Dummy Fish Initiate Group Behavior in the Weakly Electric Fish Mormyrus rume. Lecture Notes in Computer Science, 2014, , 446-448.	1.3	7
28	Conditioned behavior in a robot controlled by a spiking neural network. , 2013, , .		19
29	Interactive Robotic Fish for the Analysis of Swarm Behavior. Lecture Notes in Computer Science, 2013, , 1-10.	1.3	20
30	Imitation of the Honeybee Dance Communication System by Means of a Biomimetic Robot. Lecture Notes in Computer Science, 2012, , 132-143.	1.3	12
31	A Multi-agent Platform for Biomimetic Fish. Lecture Notes in Computer Science, 2012, , 365-366.	1.3	4
32	Analysis of the Waggle Dance Motion of Honeybees for the Design of a Biomimetic Honeybee Robot. PLoS ONE, 2011, 6, e21354.	2.5	40
33	A biomimetic honeybee robot for the analysis of the honeybee dance communication system. , 2010, , .		22
34	Sleep deprivation affects extinction but not acquisition memory in honeybees. Learning and Memory, 2009, 16, 698-705.	1.3	56
35	Design and Development of a Robotic Bee for the Analysis of Honeybee Dance Communication. Applied Bionics and Biomechanics, 2008, 5, 157-164.	1.1	15
36	Collective Predator Perception Advertisement in Fish. SSRN Electronic Journal, 0, , .	0.4	0