

Simon J Julier

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,329
citations

1040056

9
h-index

996975

15
g-index

46
all docs

46
docs citations

46
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	On Kalman Filtering With Nonlinear Equality Constraints. IEEE Transactions on Signal Processing, 2007, 55, 2774-2784.	5.3	280
2	Distributed Fusion of PHD Filters Via Exponential Mixture Densities. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 521-531.	10.8	161
3	Robust tracking of respiratory rate in high-dynamic range scenes using mobile thermal imaging. Biomedical Optics Express, 2017, 8, 4480.	2.9	93
4	Coordinated Search with a Swarm of UAVs. , 2009, , .		75
5	An Empirical Study into the Use of Chernoff Information for Robust, Distributed Fusion of Gaussian Mixture Models. , 2006, , .		72
6	DeepBreath: Deep learning of breathing patterns for automatic stress recognition using low-cost thermal imaging in unconstrained settings. , 2017, , .		69
7	Instant Stress: Detection of Perceived Mental Stress Through Smartphone Photoplethysmography and Thermal Imaging. JMIR Mental Health, 2019, 6, e10140.	3.3	52
8	Using Exponential Mixture Models for Suboptimal Distributed Data Fusion. , 2006, , .		47
9	Unscented Orientation Estimation Based on the Bingham Distribution. IEEE Transactions on Automatic Control, 2016, 61, 172-177.	5.7	47
10	Weak in the NEES?: Auto-Tuning Kalman Filters with Bayesian Optimization. , 2018, , .		42
11	Probabilistic target detection by camera-equipped UAVs. , 2010, , .		37
12	Deep Thermal Imaging. , 2018, , .		33
13	Fusion of Finite-Set Distributions: Pointwise Consistency and Global Cardinality. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2759-2773.	4.7	33
14	An experimental study on the role of augmented reality content type in an outdoor site exploration. Behaviour and Information Technology, 2019, 38, 9-27.	4.0	27
15	Design and implementation of an immersive virtual reality system based on a smartphone platform. , 2013, , .		26
16	Occupancy Detection and People Counting Using WiFi Passive Radar. , 2020, , .		24
17	Towards a situated, multimodal interface for multiple UAV control. , 2010, , .		22
18	A Taxonomy for Combining Activity Recognition and Process Discovery in Industrial Environments. Lecture Notes in Computer Science, 2018, , 84-93.	1.3	18

#	ARTICLE	IF	CITATIONS
19	Why the Failure? How Adversarial Examples Can Provide Insights for Interpretable Machine Learning. , 2018, , .		17
20	Towards the exploitation of prior information in SLAM. , 2010, , .		16
21	Nose Heat: Exploring Stress-induced Nasal Thermal Variability through Mobile Thermal Imaging. , 2019, , .		15
22	Directing versus Attracting Attention: Exploring the Effectiveness of Central and Peripheral Cues in Panoramic Videos. , 2020, , .		14
23	Avoiding negative depth in inverse depth bearing-only SLAM. , 2008, , .		12
24	Efficient Bingham filtering based on saddlepoint approximations. , 2014, , .		12
25	Failure is Not an Option: Policy Learning for Adaptive Recovery in Space Operations. IEEE Robotics and Automation Letters, 2018, 3, 1639-1646.	5.1	11
26	Assumptions about the positioning of virtual stimuli affect gaze direction estimates during Augmented Reality based interactions. Scientific Reports, 2019, 9, 2566.	3.3	9
27	Mediated Spatial Narratives. , 2018, , .		8
28	Exploiting prior information in GraphSLAM. , 2011, , .		7
29	Learning to discover objects in RGB-D images using correlation clustering. , 2013, , .		7
30	Everybody Needs Somebody Sometimes: Validation of Adaptive Recovery in Robotic Space Operations. IEEE Robotics and Automation Letters, 2019, 4, 1216-1223.	5.1	7
31	Augmenting Experimental Data with Simulations to Improve Activity Classification in Healthcare Monitoring. , 2021, , .		7
32	Guidance and surroundings awareness in outdoor handheld augmented reality. PLoS ONE, 2020, 15, e0230518.	2.5	6
33	Behaviour-aware sensor fusion: Continuously inferring the alignment of coordinate systems from user behaviour. , 2013, , .		4
34	Non Parametric Distributed Inference in Sensor Networks Using Box Particles Messages. Mathematics in Computer Science, 2014, 8, 455-478.	0.4	4
35	Attention-Based Applications in Extended Reality to Support Autistic Users: A Systematic Review. IEEE Access, 2022, 10, 15574-15593.	4.2	4
36	The Common State Filter for SLAM. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
37	Human-Aware Reinforcement Learning for Fault Recovery Using Contextual Gaussian Processes. Journal of Aerospace Information Systems, 0, , 1-13.	1.4	2
38	FMNet: Latent Feature-Wise Mapping Network for Cleaning Up Noisy Micro-Doppler Spectrogram. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	2
39	Bearings-only localisation of targets from low-speed UAVs. , 2010, , .		1
40	‘misspelled’ visual words in unsupervised range data classification: the effect of noise on classification performance. , 2011, , .		1
41	Process model parameterisation in posegraphs. , 2013, , .		1
42	Localisation of an Unknown Number of Land Mines Using a Network of Vapour Detectors. Sensors, 2014, 14, 21000-21022.	3.8	1
43	Directing versus Attracting Attention: Exploring the Effectiveness of Central and Peripheral Cues in Panoramic Videos. , 2020, , .		1
44	Reducing the Computational Cost of a Monte Carlo Based Planning Algorithm. , 2013, , .		0
45	NeuroMask: Explaining Predictions of Deep Neural Networks through Mask Learning. , 2019, , .		0