

John Ball

List of Publications by Year in descending order

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54
papers

1,067
citations

623574

14
h-index

434063

31
g-index

55
all docs

55
docs citations

55
times ranked

1292
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive survey of deep learning in remote sensing: theories, tools, and challenges for the community. <i>Journal of Applied Remote Sensing</i> , 2017, 11, 1.	0.6	435
2	LiDAR and Camera Detection Fusion in a Real-Time Industrial Multi-Sensor Collision Avoidance System. <i>Electronics (Switzerland)</i> , 2018, 7, 84.	1.8	70
3	State-of-the-art review of athletic wearable technology: What 113 strength and conditioning coaches and athletic trainers from the USA said about technology in sports. <i>International Journal of Sports Science and Coaching</i> , 2020, 15, 26-40.	0.7	65
4	Wearable Stretch Sensors for Human Movement Monitoring and Fall Detection in Ergonomics. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3554.	1.2	56
5	Semantic Segmentation with Transfer Learning for Off-Road Autonomous Driving. <i>Sensors</i> , 2019, 19, 2577.	2.1	51
6	Prediction of Student Academic Performance Using a Hybrid 2D CNN Model. <i>Electronics (Switzerland)</i> , 2022, 11, 1005.	1.8	25
7	Closing the Wearable Gap: Mobile Systems for Kinematic Signal Monitoring of the Foot and Ankle. <i>Electronics (Switzerland)</i> , 2018, 7, 117.	1.8	22
8	Closing the Wearable Gap—Part II: Sensor Orientation and Placement for Foot and Ankle Joint Kinematic Measurements. <i>Sensors</i> , 2019, 19, 3509.	2.1	22
9	Fusion of an Ensemble of Augmented Image Detectors for Robust Object Detection. <i>Sensors</i> , 2018, 18, 894.	2.1	20
10	Response of GNSS-R on Dynamic Vegetated Terrain Conditions. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 1599-1611.	2.3	20
11	Closing the Wearable Gap—Part VI: Human Gait Recognition Using Deep Learning Methodologies. <i>Electronics (Switzerland)</i> , 2020, 9, 796.	1.8	19
12	Closing the Wearable Gap—Part III: Use of Stretch Sensors in Detecting Ankle Joint Kinematics During Unexpected and Expected Slip and Trip Perturbations. <i>Electronics (Switzerland)</i> , 2019, 8, 1083.	1.8	18
13	Level set segmentation of remotely sensed hyperspectral images. , 0, , .		17
14	A Graph-based Ant-like Approach to Optimal Path Planning. , 2020, , .		17
15	Closing the Wearable Gap—Part V: Development of a Pressure-Sensitive Sock Utilizing Soft Sensors. <i>Sensors</i> , 2020, 20, 208.	2.1	17
16	Special Section Guest Editorial: Feature and Deep Learning in Remote Sensing Applications. <i>Journal of Applied Remote Sensing</i> , 2018, 11, 1.	0.6	15
17	Wearables for Biomechanical Performance Optimization and Risk Assessment in Industrial and Sports Applications. <i>Bioengineering</i> , 2022, 9, 33.	1.6	14
18	Closing the Wearable Gap—Part IV: 3D Motion Capture Cameras Versus Soft Robotic Sensors Comparison of Gait Movement Assessment. <i>Electronics (Switzerland)</i> , 2019, 8, 1382.	1.8	12

#	ARTICLE	IF	CITATIONS
19	Machine Learning and Embedded Computing in Advanced Driver Assistance Systems (ADAS). Electronics (Switzerland), 2019, 8, 748.	1.8	11
20	Rollover-Free Path Planning for Off-Road Autonomous Driving. Electronics (Switzerland), 2019, 8, 614.	1.8	11
21	Towards automated segmentation and classification of masses in mammograms. , 2004, 2004, 1814-7.		10
22	Fatigue Testing of Wearable Sensing Technologies: Issues and Opportunities. Materials, 2021, 14, 4070.	1.3	10
23	CaT: CAVS Traversability Dataset for Off-Road Autonomous Driving. IEEE Access, 2022, 10, 24759-24768.	2.6	10
24	Passive Tracking of the Electrochemical Impedance of a Hybrid Electric Vehicle Battery and State of Charge Estimation through an Extended and Unscented Kalman Filter. Batteries, 2018, 4, 52.	2.1	8
25	Estimating the Number of Sources via Deep Learning. , 2019, , .		8
26	Closing the Wearable Gap-Part VII: A Retrospective of Stretch Sensor Tool Kit Development for Benchmark Testing. Electronics (Switzerland), 2020, 9, 1457.	1.8	8
27	Robust estimation of the number of coherent radar signal sources using deep learning. IET Radar, Sonar and Navigation, 2021, 15, 431-440.	0.9	7
28	Multi-LiDAR placement, calibration, co-registration, and processing on a Subaru Forester for off-road autonomous vehicles operations. , 2019, , .		7
29	Genetic programming based Choquet integral for multi-source fusion. , 2017, , .		6
30	State-of-the-Art and Gaps for Deep Learning on Limited Training Data in Remote Sensing. , 2018, , .		6
31	Closing the Wearable Gap“Part IX: Validation of an Improved Ankle Motion Capture Wearable. IEEE Access, 2021, 9, 114022-114036.	2.6	5
32	Traversability mapping in off-road environment using semantic segmentation. , 2021, , .		5
33	Radar and Radio Signal Processing. Electronics (Switzerland), 2017, 6, 64.	1.8	4
34	Deep Learning Hyperspectral Image Classification using Multiple Class-Based Denoising Autoencoders, Mixed Pixel Training Augmentation, and Morphological Operations. , 2018, , .		4
35	Closing the Wearable Gap“Part VIII: A Validation Study for a Smart Knee Brace to Capture Knee Joint Kinematics. Biomechanics, 2021, 1, 152-162.	0.5	4
36	Runway assessment via remote sensing. , 2015, , .		3

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37	Screening Mississippi River Levees Using Texture-Based and Polarimetric-Based Features from Synthetic Aperture Radar Data. Electronics (Switzerland), 2017, 6, 29.	1.8	3
38	A Kinematic Modeling Framework for Prediction of Instantaneous Status of Towing Vehicle Systems. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 11, 177-190.	0.4	3
39	Fusion of diverse features and kernels using LP-norm based multiple kernel learning in hyperspectral image processing. , 2016, , .		2
40	CLODD based band group selection. , 2016, , .		2
41	Recursive Multi-Scale Image Deraining With Sub-Pixel Convolution Based Feature Fusion and Context Aggregation. IEEE Access, 2020, 8, 177495-177505.	2.6	2
42	A Generalized Fuzzy Extension Principle and Its Application to Information Fusion. IEEE Transactions on Fuzzy Systems, 2021, 29, 2726-2738.	6.5	2
43	Fusion of heterogeneous bands and kernels in hyperspectral image processing. Journal of Applied Remote Sensing, 2019, 13, 1.	0.6	2
44	Adaptive hyperspectral pixel unmixing using best bands analysis and dc insensitive singular value decomposition. , 0, , .		1
45	Using wavelets to categorize student attention patterns. , 2016, , .		1
46	Direction of arrival estimation for conformal arrays on real-world impulsive acoustic signals. Proceedings of Meetings on Acoustics, 2017, , .	0.3	1
47	Radar Angle of Arrival System Design Optimization Using a Genetic Algorithm. Electronics (Switzerland), 2017, 6, 24.	1.8	1
48	Preliminary Results of a GNSS-R Simulation to Sense Canopy Parameters. , 2018, , .		1
49	Thermal Imaging for Rapid Noninvasive On-site Insulation Diagnostics. , 2019, , .		1
50	Deterioration of textile vs. electronic components over time in athletic wearable devices. , 2021, , .		1
51	Engaging Students in an Automotive Autonomy Sensor Processing Class: Incorporating active learning and high-fidelity, physics-based autonomy simulation into class projects. IEEE Signal Processing Magazine, 2021, 38, 122-132.	4.6	1
52	Multispectral sensor design using performance measure-based hyperspectral band grouping. , 2015, , .		0
53	Measuring conflict in a multi-source environment as a normal measure. , 2015, , .		0
54	Hybrid Feature Extraction Model to Categorize Student Attention Pattern and Its Relationship with Learning. Electronics (Switzerland), 2022, 11, 1476.	1.8	0