

Debi Prosad Dogra

List of Publications by Year in descending order

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69
papers

1,965
citations

236925

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265206

42
g-index

72
all docs

72
docs citations

72
times ranked

1583
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of EEG signals and its application to neuromarketing. Multimedia Tools and Applications, 2017, 76, 19087-19111.	3.9	158
2	Coupled HMM-based multi-sensor data fusion for sign language recognition. Pattern Recognition Letters, 2017, 86, 1-8.	4.2	152
3	A multimodal framework for sensor based sign language recognition. Neurocomputing, 2017, 259, 21-38.	5.9	134
4	deepGesture: Deep learning-based gesture recognition scheme using motion sensors. Displays, 2018, 55, 38-45.	3.7	75
5	Prediction of advertisement preference by fusing EEG response and sentiment analysis. Neural Networks, 2017, 92, 77-88.	5.9	72
6	Trajectory-Based Surveillance Analysis: A Survey. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 1985-1997.	8.3	67
7	A position and rotation invariant framework for sign language recognition (SLR) using Kinect. Multimedia Tools and Applications, 2018, 77, 8823-8846.	3.9	63
8	Independent Bayesian classifier combination based sign language recognition using facial expression. Information Sciences, 2018, 428, 30-48.	6.9	62
9	Multimodal Gait Recognition With Inertial Sensor Data and Video Using Evolutionary Algorithm. IEEE Transactions on Fuzzy Systems, 2019, 27, 956-965.	9.8	62
10	EEG-Based Age and Gender Prediction Using Deep BLSTM-LSTM Network Model. IEEE Sensors Journal, 2019, 19, 2634-2641.	4.7	59
11	Fingertip detection and tracking for recognition of air-writing in videos. Expert Systems With Applications, 2019, 136, 217-229.	7.6	58
12	Computer-Vision-Assisted Palm Rehabilitation With Supervised Learning. IEEE Transactions on Biomedical Engineering, 2016, 63, 991-1001.	4.2	57
13	Envisioned speech recognition using EEG sensors. Personal and Ubiquitous Computing, 2018, 22, 185-199.	2.8	56
14	Study of Text Segmentation and Recognition Using Leap Motion Sensor. IEEE Sensors Journal, 2017, 17, 1293-1301.	4.7	55
15	Exploring Impact of Age and Gender on Sentiment Analysis Using Machine Learning. Electronics (Switzerland), 2020, 9, 374.	3.1	54
16	A bio-signal based framework to secure mobile devices. Journal of Network and Computer Applications, 2017, 89, 62-71.	9.1	52
17	Computer-Vision-Guided Human Pulse Rate Estimation: A Review. IEEE Reviews in Biomedical Engineering, 2016, 9, 91-105.	18.0	49
18	A novel framework of continuous human-activity recognition using Kinect. Neurocomputing, 2018, 311, 99-111.	5.9	45

#	ARTICLE	IF	CITATIONS
19	Kinect sensor-based interaction monitoring system using the BLSTM neural network in healthcare. International Journal of Machine Learning and Cybernetics, 2019, 10, 2529-2540.	3.6	44
20	3D text segmentation and recognition using leap motion. Multimedia Tools and Applications, 2017, 76, 16491-16510.	3.9	32
21	Designing of marker-based augmented reality learning environment for kids using convolutional neural network architecture. Displays, 2018, 55, 46-54.	3.7	30
22	Autonomous detection and tracking under illumination changes, occlusions and moving camera. Signal Processing, 2015, 117, 343-354.	3.7	29
23	A Survey on Neuromarketing Using EEG Signals. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 732-749.	3.8	29
24	A multimodal-Siamese Neural Network (mSNN) for person verification using signatures and EEG. Information Fusion, 2021, 71, 17-27.	19.1	29
25	Computer vision-guided intelligent traffic signaling for isolated intersections. Expert Systems With Applications, 2019, 134, 267-278.	7.6	27
26	A segmental HMM based trajectory classification using genetic algorithm. Expert Systems With Applications, 2018, 93, 169-181.	7.6	25
27	Query-Based Video Synopsis for Intelligent Traffic Monitoring Applications. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3457-3468.	8.0	23
28	Segmentation and recognition of text written in 3D using Leap motion interface. , 2015, , .		21
29	Smart video summarization using mealy machine-based trajectory modelling for surveillance applications. Multimedia Tools and Applications, 2016, 75, 6373-6401.	3.9	21
30	Surveillance scene representation and trajectory abnormality detection using aggregation of multiple concepts. Expert Systems With Applications, 2018, 101, 43-55.	7.6	21
31	Analysis of 3D signatures recorded using leap motion sensor. Multimedia Tools and Applications, 2018, 77, 14029-14054.	3.9	20
32	Summarization of videos by analyzing affective state of the user through crowdsource. Cognitive Systems Research, 2018, 52, 917-930.	2.7	20
33	Video trajectory analysis using unsupervised clustering and multi-criteria ranking. Soft Computing, 2020, 24, 16643-16654.	3.6	17
34	Fast recognition and verification of 3D air signatures using convex hulls. Expert Systems With Applications, 2018, 100, 106-119.	7.6	15
35	Temporal Unknown Incremental Clustering Model for Analysis of Traffic Surveillance Videos. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1762-1773.	8.0	15
36	Visual rendering of shapes on 2D display devices guided by hand gestures. Displays, 2019, 57, 18-33.	3.7	14

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37	Vehicular Trajectory Classification and Traffic Anomaly Detection in Videos Using a Hybrid CNN-VAE Architecture. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11891-11902.	8.0	14
38	Toward Automating Hammersmith Pulled-To-Sit Examination of Infants Using Feature Point Based Video Object Tracking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 38-47.	4.9	13
39	Trajectory-Based Scene Understanding Using Dirichlet Process Mixture Model. IEEE Transactions on Cybernetics, 2021, 51, 4148-4161.	9.5	13
40	ELM-HTM guided bio-inspired unsupervised learning for anomalous trajectory classification. Cognitive Systems Research, 2020, 63, 30-41.	2.7	13
41	A multi-stream deep neural network with late fuzzy fusion for real-world anomaly detection. Expert Systems With Applications, 2022, 201, 117030.	7.6	12
42	A Tool for Automatic Hammersmith Infant Neurological Examination. International Journal of E-Health and Medical Communications, 2011, 2, 1-13.	1.6	11
43	Queuing theory guided intelligent traffic scheduling through video analysis using Dirichlet process mixture model. Expert Systems With Applications, 2019, 118, 169-181.	7.6	11
44	Video based exercise recognition and correct pose detection. Multimedia Tools and Applications, 2022, 81, 30267-30282.	3.9	10
45	Recognizing gender from human facial regions using genetic algorithm. Soft Computing, 2019, 23, 8085-8100.	3.6	9
46	A Robust Biometric Authentication System for Handheld Electronic Devices by Intelligently Combining 3D Finger Motions and Cerebral Responses. IEEE Transactions on Consumer Electronics, 2021, 67, 58-67.	3.6	9
47	Localization of region of interest in surveillance scene. Multimedia Tools and Applications, 2017, 76, 13651-13680.	3.9	7
48	Motion anomaly detection and trajectory analysis in visual surveillance. Multimedia Tools and Applications, 2018, 77, 16223-16248.	3.9	7
49	Understanding crowd flow patterns using active-Langevin model. Pattern Recognition, 2021, 119, 108037.	8.1	7
50	Video analysis of Hammersmith lateral tilting examination using Kalman filter guided multi-path tracking. Medical and Biological Engineering and Computing, 2014, 52, 759-772.	2.8	6
51	A novel point-line duality feature for trajectory classification. Visual Computer, 2019, 35, 415-427.	3.5	6
52	Estimation of linear motion in dense crowd videos using Langevin model. Expert Systems With Applications, 2020, 150, 113333.	7.6	5
53	Logo detection using weakly supervised saliency map. Multimedia Tools and Applications, 2021, 80, 4341-4365.	3.9	5
54	Unsupervised classification of erroneous video object trajectories. Soft Computing, 2018, 22, 4703-4721.	3.6	4

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55	Person Re-identification in Videos by Analyzing Spatio-temporal Tubes. Multimedia Tools and Applications, 2020, 79, 24537-24551.	3.9	4
56	Automatic Adductors Angle Measurement for Neurological Assessment of Post-neonatal Infants during Follow Up. Lecture Notes in Computer Science, 2011, , 160-166.	1.3	3
57	Autonomous vision-guided approach for the analysis and grading of vertical suspension tests during Hammersmith Infant Neurological Examination (HINE). , 2016, 2016, 863-866.		2
58	Exercise classification and event segmentation in Hammersmith Infant Neurological Examination videos. Machine Vision and Applications, 2018, 29, 233-245.	2.7	2
59	Robustness Analysis of Motion Sensor Guided Air Authentication System. IEEE Transactions on Consumer Electronics, 2018, 64, 171-179.	3.6	2
60	Ornament Image Retrieval Using Multimodal Fusion. SN Computer Science, 2021, 2, 1.	3.6	2
61	Topic-based Video Analysis. ACM Computing Surveys, 2022, 54, 1-34.	23.0	2
62	Posture Recognition in HINE Exercises. Advances in Intelligent Systems and Computing, 2017, , 321-330.	0.6	2
63	Object Interaction-Based Localization and Description of Road Accident Events Using Deep Learning. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 20601-20613.	8.0	2
64	Likelihood learning in modified Dirichlet Process Mixture Model for video analysis. Pattern Recognition Letters, 2019, 128, 211-219.	4.2	1
65	Natural Gestures to Interact with 3D Virtual Objects using Deep Learning Framework. , 2019, , .		1
66	Crowd Characterization in Surveillance Videos Using Deep-Graph Convolutional Neural Network. IEEE Transactions on Cybernetics, 2021, PP, 1-12.	9.5	1
67	PIDLNet: A Physics-Induced Deep Learning Network for Characterization of Crowd Videos. , 2021, , .		1
68	Extraction of Long-Duration Moving Object Trajectories from Curtailed Tracks. Advances in Intelligent Systems and Computing, 2018, , 315-326.	0.6	0
69	Can we automate diagrammatic reasoning?. Pattern Recognition, 2020, 106, 107412.	8.1	0