

# Vijay Bhaskar Semwal

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,803  
citations

257450

24  
h-index

315739

38  
g-index

48  
all docs

48  
docs citations

48  
times ranked

680  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-input CNN-GRU based human activity recognition using wearable sensors. Computing (Vienna/New York), 2021, 103, 1461-1478.	4.8	193
2	A multibranch CNN-BiLSTM model for human activity recognition using wearable sensor data. Visual Computer, 2022, 38, 4095-4109.	3.5	114
3	Robust and accurate feature selection for humanoid push recovery and classification: deep learning approach. Neural Computing and Applications, 2017, 28, 565-574.	5.6	109
4	Pattern identification of different human joints for different human walking styles using inertial measurement unit (IMU) sensor. Artificial Intelligence Review, 2022, 55, 1149-1169.	15.7	89
5	Biometric gait identification based on a multilayer perceptron. Robotics and Autonomous Systems, 2015, 65, 65-75.	5.1	84
6	An optimized hybrid deep learning model using ensemble learning approach for human walking activities recognition. Journal of Supercomputing, 2021, 77, 12256-12279.	3.6	78
7	An optimized feature selection technique based on incremental feature analysis for bio-metric gait data classification. Multimedia Tools and Applications, 2017, 76, 24457-24475.	3.9	77
8	Clinical Human Gait Classification: Extreme Learning Machine Approach. , 2019, , .		63
9	Fusion of Multi-Sensor-Based Biomechanical Gait Analysis Using Vision and Wearable Sensor. IEEE Sensors Journal, 2021, 21, 14213-14220.	4.7	60
10	Deep ensemble learning approach for lower extremity activities recognition using wearable sensors. Expert Systems, 2022, 39, e12743.	4.5	56
11	Less computationally intensive fuzzy logic (type-1)-based controller for humanoid push recovery. Robotics and Autonomous Systems, 2015, 63, 122-135.	5.1	54
12	Biologically-inspired push recovery capable bipedal locomotion modeling through hybrid automata. Robotics and Autonomous Systems, 2015, 70, 181-190.	5.1	51
13	Generation of Joint Trajectories Using Hybrid Automate-Based Model: A Rocking Block-Based Approach. IEEE Sensors Journal, 2016, 16, 5805-5816.	4.7	49
14	Human Activity Recognition Using Gait Pattern. International Journal of Computer Vision and Image Processing, 2013, 3, 31-53.	0.4	47
15	Wearable sensor-based pattern mining for human activity recognition: deep learning approach. Industrial Robot, 2022, 49, 21-33.	2.1	45
16	Toward Developing a Computational Model for Bipedal Push Recoveryâ€“A Brief. IEEE Sensors Journal, 2015, 15, 2021-2022.	4.7	43
17	Inception inspired CNN-GRU hybrid network for human activity recognition. Multimedia Tools and Applications, 2023, 82, 5369-5403.	3.9	43
18	Design of Vector Field for Different Subphases of Gait and Regeneration of Gait Pattern. IEEE Transactions on Automation Science and Engineering, 2018, 15, 104-110.	5.2	41

#	ARTICLE	IF	CITATIONS
19	Human Gait State Prediction Using Cellular Automata and Classification Using ELM. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 135-145.	0.6	41
20	Multiple Task Human Gait Analysis and Identification: Ensemble Learning Approach. , 2020, , 185-197.		38
21	Advanced Automated Module for Smart and Secure City. <i>Procedia Computer Science</i> , 2016, 78, 367-374.	2.0	37
22	HDL-PSR: Modelling Spatio-Temporal Features Using Hybrid Deep Learning Approach for Post-Stroke Rehabilitation. <i>Neural Processing Letters</i> , 2023, 55, 279-298.	3.2	36
23	Stride segmentation of inertial sensor data using statistical methods for different walking activities. <i>Robotica</i> , 2022, 40, 2567-2580.	1.9	35
24	Bidirectional association of joint angle trajectories for humanoid locomotion: the restricted Boltzmann machine approach. <i>Neural Computing and Applications</i> , 2018, 30, 1747-1755.	5.6	34
25	An optimized feature selection using bio-geography optimization technique for human walking activities recognition. <i>Computing (Vienna/New York)</i> , 2021, 103, 2893-2914.	4.8	32
26	Heterogeneous computing model for postâ€ injury walking pattern restoration and postural stability rehabilitation exercise recognition. <i>Expert Systems</i> , 2022, 39, e12706.	4.5	28
27	Study of humanoid Push recovery based on experiments. , 2013, , .		27
28	Modeling bipedal locomotion trajectories using hybrid automata. , 2016, , .		27
29	Biped model based on human Gait pattern parameters for sagittal plane movement. , 2013, , .		25
30	Speed, Cloth and Pose Invariant Gait Recognition-Based Person Identification. <i>Studies in Big Data</i> , 2021, , 39-56.	1.1	24
31	Analysis of Gait Pattern to Recognize the Human Activities. <i>International Journal of Interactive Multimedia and Artificial Intelligence</i> , 2014, 2, 7.	1.3	17
32	Occluded Gait reconstruction in multi person Gait environment using different numerical methods. <i>Multimedia Tools and Applications</i> , 2022, 81, 23421-23448.	3.9	15
33	Multiobjective optimized bipedal locomotion. <i>International Journal of Machine Learning and Cybernetics</i> , 2019, 10, 1997-2013.	3.6	14
34	Hybrid Deep Learning Approach for Aspect Detection on Reviews. <i>Algorithms for Intelligent Systems</i> , 2021, , 991-999.	0.6	10
35	A Fault-Tolerant Mobile Computing Model Based On Scalable Replica. <i>International Journal of Interactive Multimedia and Artificial Intelligence</i> , 2014, 2, 58.	1.3	10
36	Violent Video Detection by Pre-trained Model and CNN-LSTM Approach. <i>Algorithms for Intelligent Systems</i> , 2021, , 979-989.	0.6	9

#	ARTICLE	IF	CITATIONS
37	Hybrid Model for Passive Locomotion Control of a Biped Humanoid:The Artificial Neural Network Approach. International Journal of Interactive Multimedia and Artificial Intelligence, 2018, 5, 40.	1.3	9
38	Measurement of viewer sentiment to improve the quality of television and interactive content using adaptive content. , 2016, , .		6
39	Accurate location estimation of moving object In Wireless Sensor network. International Journal of Interactive Multimedia and Artificial Intelligence, 2011, 1, 71.	1.3	6
40	An accurate hand tracking system for complex background based on modified KLT Tracker. , 2016, , .		4
41	A Review of Computational Model for Bipedal Robot Walking Using Gait Analysis. , 2020, , .		4
42	Design of A Recurrent Neural Network Model for Machine Reading Comprehension. Procedia Computer Science, 2020, 167, 1791-1800.	2.0	4
43	Performance Analysis of Data-Driven Techniques for Solving Inverse Kinematics Problems. Lecture Notes in Networks and Systems, 2022, , 85-99.	0.7	3
44	Development of Universal Polynomial Equation for All the Sub-phases of Human Gait. Lecture Notes in Electrical Engineering, 2021, , 45-55.	0.4	3
45	Comparative Study of Inverse Kinematics Using Data Driven And FABRIK Approach. , 2021, , .		3
46	The Recent Advancements in Humanoid Robot Technology. , 2022, , .		2
47	SPECIAL SESSION ON RECENT ADVANCES IN COMPUTATIONAL INTELLIGENCE & TECHNOLOGYS (SS_10_RACIT). Lecture Notes in Networks and Systems, 2023, , 595-608.	0.7	2