Citation Report
List of articles citing

A survey on fall detection: Principles and approaches

DOI: 10.1016/j.neucom.2011.09.037
Neurocomputing, 2013, 100, 144-152.

Source: https://exaly.com/paper-pdf/54918707/citation-report.pdf
Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
640	Lowpass-filter flat magnitude characteristic with sharp cutoff. **1975**, 11, 174		5
639	Piezoelectric servo-actuator of LiNbO/sub 3/ with an integrated sensor.		
638	A wireless body area network for pervasive health monitoring within smart environments. **2012**,		1
637	Exploiting advanced video analysis technologies for a smart home monitoring platform for epileptic patients: Technological and legal preconditions. **2012**,		2
636	Automatic Fall Detection and Activity Classification by a Wearable Embedded Smart Camera. **2013**, 3, 125-136		51
635	Ambient assisted smart home design using vibration and PIR sensors. **2013**,		6
634	Hybrid Artificial Intelligent Systems. **2013**,		
633	Designing an intelligent health monitoring system and exploring user acceptance for the elderly. **2013**, 37, 9967		40
632	. **2013**,		38
631	A survey on ambient-assisted living tools for older adults. **2013**, 17, 579-90		710
630	A Survey on Ambient Intelligence in Health Care. **2013**, 101, 2470-2494		408
629	Location-independent fall detection with smartphone. **2013**,		11
628	A methodology for multi-actor evaluation of the impact of eCare services. **2013**,		2
627	Fall-prediction algorithm using a neural network for safety enhancement of elderly. **2013**,		5
626	Detecting falls as novelties in acceleration patterns acquired with smartphones. **2014**, 9, e94811		94
625	Depth-based human fall detection via shape features and improved extreme learning machine. **2014**, 18, 1915-22		174
624	Voltage compensation based calibration measurement of 3D-acceleration transducer in fall detection system for the elderly. **2014**, 2014, 2773-6		

623	Multimodal sensor-based fall detection within the domestic environment of elderly people. **2014**, 47, 661-5	16
622	iBump: Smartphone application to detect car accidents. **2014**,	11
621	Detecting falls with wearable sensors using machine learning techniques. **2014**, 14, 10691-708	215
620	Automatic fall monitoring: a review. **2014**, 14, 12900-36	158
619	Comparison and characterization of Android-based fall detection systems. **2014**, 14, 18543-74	61
618	Fall Detection Using Commodity Smart Watch and Smart Phone. **2014**, 70-78	13
617	Seamless tracing of human behavior using complementary wearable and house-embedded sensors. **2014**, 14, 7831-56	47
616	Trunk angular kinematics during slip-induced backward falls and activities of daily living. **2014**, 136, 101005	7
615	Insights into the role of feedbacks in the tracking loop of a modular fall-detection algorithm. **2014**,	1
614	Combining Spatial and Temporal Information for Inactivity Modeling. **2014**,	
613	Fall detection system of elderly people based on integral image and histogram of oriented gradient feature. **2014**,	1
612	Features selection in video fall detection. **2014**,	2
611	An efficient user-customisable multiresolution classifier fall detection and diagnostic system. **2014**,	
610	Artificial Intelligence Applications and Innovations. **2014**,	3
609	An embedded smart agile pixel imager for lasers. **2014**,	
608	Combining domain knowledge and machine learning for robust fall detection. **2014**, 31, 163-175	16
607	Fall-Detection Algorithm Using 3-Axis Acceleration: Combination with Simple Threshold and Hidden Markov Model. **2014**, 2014, 1-8	39
606	Lying-pose detection with training dataset expansion. **2014**,	3

605	An enhanced fall detection system for elderly person monitoring using consumer home networks. **2014**, 60, 23-29	162
604	A distributed perception infrastructure for robot assisted living. **2014**, 62, 1316-1328	9
603	Human fall detection on embedded platform using depth maps and wireless accelerometer. **2014**, 117, 489-501	255
602	WiFall: Device-free fall detection by wireless networks. **2014**,	153
601	A comparative study of classification methods for fall detection. **2014**,	1
600	Fall detection based on the gravity vector using a wide-angle camera. **2014**, 41, 7980-7986	23
599	Fall detection for elderly person care in a vision-based home surveillance environment using a monocular camera. **2014**, 8, 1129-1138	62
598	Model Validation and Uncertainty Quantification, Volume 3. **2014**,	
597	Fall detection for multiple pedestrians using depth image processing technique. **2014**, 114, 172-82	25
596	Development and evaluation of a prior-to-impact fall event detection algorithm. **2014**, 61, 2135-40	49
595	Low-cost and highly reliable MIMAMORI device for patient monitoring. **2014**,	
594	Perception et rˆceptivitˆdes proches-aidants ˆl'ˆgard de la vidˆosurveillance intelligente pour la dˆtection des chutes des aˆnˆs ˆdomicile. **2015**, 34, 445-456	4
593	. **2015**,	1
592	A survey on vision-based fall detection. **2015**,	75
591	Multi sensor system for automatic fall detection. **2015**,	10
590	Fall detection using history triple features. **2015**,	13
589	A pervasive neural network based fall detection system on smart phone. **2015**, 7, 221-230	17
588	Design of a lifestyle recommender system for the elderly. **2015**,	7

587	UWB wireless system for falling down detection. **2015**,	
586	Development of a vision based pedestrian fall detection system with back propagation neural network. **2015**,	5
585	Medical Virtual Instrumentation for Ambient Assisted Living: Part 2 Practice and Case Studies. **2015**, 48, 178-182	1
584	Robust Indoor Human Activity Recognition Using Wireless Signals. **2015**, 15, 17195-208	40
583	Analysis of Android Device-Based Solutions for Fall Detection. **2015**, 15, 17827-94	51
582	New Fast Fall Detection Method Based on Spatio-Temporal Context Tracking of Head by Using Depth Images. **2015**, 15, 23004-19	43
581	Automatic Fall Detection System Based on the Combined Use of a Smartphone and a Smartwatch. **2015**, 10, e0140929	62
580	Development of a wearable-sensor-based fall detection system. **2015**, 2015, 576364	94
579	Computer Vision - ECCV 2014 Workshops. **2015**,	2
578	Application of k Nearest Neighbors Approach to the fall detection of elderly people using depth-based sensors. **2015**,	5
577	Coupled Hidden Markov Model for video fall detection. **2015**,	2
576	Camera-based fall detection using a particle filter. **2015**, 2015, 6947-50	11
575	Indoor fall detection using a network of seismic sensors. **2015**,	
574	Fall detection algorithm for the elderly based on human characteristic matrix and SVM. **2015**,	6
573	A fall detection algorithm for indoor video sequences captured by fish-eye camera. **2015**,	2
572	Falling Detection System Based on Machine Learning. **2015**,	2
571	Designing an emergency communication system for human and assistance dog partnerships. **2015**,	14
570	Exploring assistive technology for assistance dog owners in emergency situations. **2015**,	

569	Ambient Technology to Support Elderly People in Outdoor Risk Situations. **2015**, 35-56	1
568	Human activity analysis for in-home fall risk assessment. **2015**,	10
567	Gesture-aware fall detection system: Design and implementation. **2015**,	2
566	Fall detection using directional bounding box. **2015**,	8
565	Posture estimation and human support using wearable sensors and walking-aid robot. **2015**, 73, 24-43	29
564	SVM-based fall detection method for elderly people using Android low-cost smartphones. **2015**,	11
563	iBump: Smartphone application to detect car accidents. **2015**, 43, 66-75	22
562	Low-power technologies for wearable telecare and telehealth systems: A review. **2015**, 5, 1-9	36
561	Modeling abnormal walking of the elderly to predict risk of the falls using Kalman filter and motion estimation approach. **2015**, 46, 471-486	10
560	Automated Health Alerts Using In-Home Sensor Data for Embedded Health Assessment. **2015**, 3, 2700111	62
559	Model Validation and Uncertainty Quantification, Volume 3. **2015**,	3
558	Towards a social and context-aware multi-sensor fall detection and risk assessment platform. **2015**, 64, 307-20	22
557	Human Activity Recognition Using Multinomial Logistic Regression. **2015**, 363-372	4
556	Smart Fall: Accelerometer-Based Fall Detection in a Smart Home Environment. **2015**, 194-205	4
555	Integration of Wearable Solutions in AAL Environments with Mobility Support. **2015**, 39, 184	26
554	Bridging e-Health and the Internet of Things: The SPHERE Project. **2015**, 30, 39-46	159
553	. **2015**,	28
552	A systematic methodology for augmenting quality of experience in smart space design. **2015**, 22, 81-87	15

551 Concept, design and implementation of sensing as a service framework. **2015**,

550 Ultrasonic array sensors for monitoring of human fall detection. **2015**, 13

549 Fall detection based on body part tracking using a depth camera. **2015**, 19, 430-9 150

548 A smart phone-based pocket fall accident detection, positioning, and rescue system. **2015**, 19, 44-56 105

547 Expert Knowledge for Modeling Functional Health from Sensor Data. **2016**, 55, 516-524 3

546 Fall Detection Using Adaptive Neuro-Fuzzy Inference System. **2016**, 11, 91-106 10

545 Challenges and Issues in Multisensor Fusion Approach for Fall Detection: Review Paper. **2016**, 2016, 1-12 45

544 Tablet PC Enabled Body Sensor System for Rural Telehealth Applications. **2016**, 2016, 5747961 7

543 An Analysis on Sensor Locations of the Human Body for Wearable Fall Detection Devices: Principles and Practice. **2016**, 16, 90

542 A Vision-Based Approach for Building Telecare and Telerehabilitation Services. **2016**, 16, 12

541 Stereo surveillance system for fall detection. **2016**,

540 Combining Human Action Sensing of Wheelchair Users and Machine Learning for Autonomous Accessibility Data Collection. **2016**, E99.D, 1153-1161 9

539 Healthcare Assessment Questions Non-invasive Ambient Sensors. **2016**, 1

538 Fall detection and activity identification using wearable and hand-held devices. **2016**, 23, 161-172 22

537 A novel multi-cue integration system for efficient human fall detection. **2016**, 8

536 User-centric, embedded vision-based human monitoring. **2016**, 7

535 User-adaptive fall detection for patients using wristband. **2016**, 10

534 IoT-based fall detection system with energy efficient sensor nodes. **2016**, 25

533	Autonomous Fall Detection With Wearable Cameras by Using Relative Entropy Distance Measure. **2016**, 1-9	24
532	Automatic falls detection in hospital-room context. **2016**,	1
531	Statistical control chart and neural network classification for improving human fall detection. **2016**,	1
530	Automated unusual event detection in video surveillance. **2016**,	13
529	A simple strategy for fall events detection. **2016**,	4
528	Octagonal formation of ultrasonic array sensors for fall detection. **2016**,	2
527	Automatic fall detection of human in video using combination of features. **2016**,	7
526	A Neurocognitive Robot Assistant for Robust Event Detection. **2016**, 1-27	3
525	. **2016**,	9
524	Acoustic cues from the floor: A new approach for fall classification. **2016**, 60, 51-61	33
523	Inclusive Smart Cities and Digital Health. **2016**,	2
522	[Intelligent videosurveillance and falls detection: Perceptions of professionals and managers]. **2016**, 83, 33-41	4
521	Human fall detection in surveillance video based on PCANet. **2016**, 75, 11603-11613	73
520	Accelerometer-based fall detection using feature extraction and support vector machine algorithms. **2016**, 44, 333-342	26
519	Floor Pressure Imaging for Fall Detection with Fiber-Optic Sensors. **2016**, 15, 40-47	41
518	3D depth image analysis for indoor fall detection of elderly people. **2016**, 2, 24-34	59
517	A framework for allocating personalized appliance-level disaggregated electricity consumption to daily activities. **2016**, 111, 337-350	27
516	Pre-impact fall detection. **2016**, 15, 61	27

515	Identifying user requirements of wearable healthcare technologies for Chinese ageing population. **2016**,		3
514	A Data-Driven Monitoring Technique for Enhanced Fall Events Detection. **2016**, 49, 333-338		3
513	Research of elderly fall detection based on Dynamic Time Warping algorithm. **2016**,		1
512	. **2016**,		3
511	Camera-based fall detection using real-world versus simulated data: How far are we from the solution?. **2016**, 8, 149-168		18
510	REDLE: Elderly care on clouds. **2016**,		0
509	Fall Recovery Subactivity Recognition With RGB-D Cameras. **2016**, 12, 2312-2320		26
508	Accelerometer and Camera-Based Strategy for Improved Human Fall Detection. **2016**, 40, 284		18
507	Bridging the gap between real-life data and simulated data by providing a highly realistic fall dataset for evaluating camera-based fall detection algorithms. **2016**, 3, 6-11		32
506	Poster. **2016**,		
505	Human fall detection in videos by fusing statistical features of shape and motion dynamics on Riemannian manifolds. *Neurocomputing*, **2016**, 207, 726-734	5.4	18
504	Activity Recognition With Smart Polymer Floor Sensor: Application to Human Footstep Recognition. **2016**, 16, 5757-5775		24
503	Soft Fall Detection Using Machine Learning in Wearable Devices. **2016**,		9
502	Fast prototyping of a SoC-based smart-camera: a real-time fall detection case study. **2016**, 12, 649-662		20
501	AnyNovel: detection of novel concepts in evolving data streams. **2016**, 7, 73-93		28
500	Fuzzy Logic Based Human Activity Recognition in Video Surveillance Applications. **2016**, 227-235		7
499	Multiple comparator classifier framework for accelerometer-based fall detection and diagnostic. **2016**, 39, 94-103		81
498	Video Recognition of Human Fall Based on Spatiotemporal Features. **2016**, 22, 303-309		

497	Prior-to- and Post-Impact Fall Detection Using Inertial and Barometric Altimeter Measurements. **2016**, 24, 774-83		51
496	The electronic, personalizable Rosetta system for dementia care: exploring the user-friendliness, usefulness and impact. **2016**, 11, 61-71		44
495	Multi-view fall detection based on spatio-temporal interest points. **2016**, 75, 8469-8492		12
494	Falls as anomalies? An experimental evaluation using smartphone accelerometer data. **2017**, 8, 87-99		28
493	Activity tracking and monitoring of patients with alzheimer□ disease. **2017**, 76, 489-521		22
492	Learning rich features from objectness estimation for human lying-pose detection. **2017**, 23, 515-526		7
491	WiFall: Device-Free Fall Detection by Wireless Networks. **2017**, 16, 581-594		358
490	Visual Information-Based Activity Recognition and Fall Detection for Assisted Living and eHealthCare. **2017**, 395-425		2
489	Smart Secure Homes: A Survey of Smart Home Technologies that Sense, Assess, and Respond to Security Threats. **2017**, 3, 83-98		20
488	Combining novelty detectors to improve accelerometer-based fall detection. **2017**, 55, 1849-1858		8
487	A deep neural network for real-time detection of falling humans in naturally occurring scenes. *Neurocomputing*, **2017**, 260, 43-58	5.4	46
486	Radar and RGB-Depth Sensors for Fall Detection: A Review. **2017**, 17, 3585-3604		105
485	Matching pursuit-based compressive sensing in a wearable biomedical accelerometer fall diagnosis device. **2017**, 33, 96-108		23
484	A Novel Real-Time Fall Detection System Based on Real-Time Video and Mobile Phones. **2017**, 26, 1750056		0
483	. **2017**, 5, 11364-11373		13
482	User profiling and behavioral adaptation for HRI: A survey. **2017**, 99, 3-12		69
481	Continuous detection of human fall using multimodal features from Kinect sensors in scalable environment. **2017**, 146, 151-165		28
480	The development of Artificial Neural Networks (ANN) for falls detection. **2017**,		7

479 Human fall detection by using the body vector. **2017**, 1

478 Detecting falls with X-Factor Hidden Markov Models. **2017**, 55, 168-177 21

477 Smartphone Based Data Mining for Fall Detection: Analysis and Design. **2017**, 105, 46-51 59

476 . **2017**,

475 Fall detection using smart floor sensor and supervised learning. **2017**, 2017, 3445-3448 9

474 Adaptive directional bounding box from RGB-D information for improving fall detection. **2017**, 49, 257-273 8

473 A Survey of Railyard Worker Protection Approaches and System Design Considerations. **2017**,

472 Human Fall Detection Using Von Mises Distribution and Motion Vectors of Interest Points. **2017**, 1

471 Fall detection via human posture representation and support vector machine. **2017**, 13, 155014771770741 19

470 Detection of moving objects based on enhancement of optical flow. **2017**, 145, 130-141 19

469 Intelligent assistant carer for active aging. **2017**, 2017, 3

468 Smartphone accelerometers for the detection of heart rate. **2017**, 14, 935-948 17

467 Research on Children's Fall Detection by Characteristic Operator. **2017**, 2

466 . **2017**, 16

465 . **2017**, 17, 812-822 100

464 Advances in Intelligent Information Hiding and Multimedia Signal Processing. **2017**, 1

463 Majority-consensus fusion approach for elderly IoT-based healthcare applications. **2017**, 72, 157-171 8

462 Computer vision for assistive technologies. **2017**, 154, 1-15 118

461	Smart assisted diagnosis solution with multi-sensor Holter. *Neurocomputing*, **2017**, 220, 67-75	5.4	7
460	Percentage of human-occupied areas for fall detection from two views. **2017**, 33, 1529-1540		16
459	Fall Detection Algorithm Based on Human Posture Recognition. **2017**, 119-126		2
458	Review of fall detection techniques: A data availability perspective. **2017**, 39, 12-22		121
457	Robust unobtrusive fall detection using infrared array sensors. **2017**,		16
456	Anomaly detection in smart houses: Monitoring elderly daily behavior for fall detecting. **2017**,		3
455	Fall detection for elderly in assisted environments: Video surveillance systems and challenges. **2017** ,		6
454	Vision-Based Fall Detection with Convolutional Neural Networks. **2017**, 2017, 1-16		99
453	Visual guided deep learning scheme for fall detection. **2017**,		6
452	On-line fall detection via a boosted cascade of hybrid features. **2017**,		1
451	Fall detection using Gaussian mixture model and principle component analysis. **2017**,		14
450	Concepts and developments of an wearable system - an IoT approach. **2017**,		3
449	A Sensor Fusion Based Pan-Tilt Platform for Activity Tracking and Fall Detection. **2017**,		1
448	Vision-based fall detection system for improving safety of elderly people. **2017**, 20, 49-55		50
447	A conceptual framework for an elder-supported smart home. **2017**,		1
446	An elderly fall detection using a wrist-worn accelerometer and barometer. **2017**, 2017, 125-130		10
445	Measuring frailty and detecting falls for elderly home care using depth camera. **2017**, 9, 469-481		13
444	Proposal of body movement variation analysis technique on bed for fall prevention. **2017**, 83, 17-00210-17-00210		

443 New approach for indoor fall detection by infrared thermal array sensor. **2017**, 4

442 . **2017**, 3

441 A motion classification approach to fall detection. **2017**, 1

440 Fall detection for elderly person care using convolutional neural networks. **2017**, 17

439 Joint object region location and deep feature learning for fall recognition. **2017**, 1

438 Classification of human fall in top Viewed kinect depth images using binary support vector machine. **2017**, 4

437 Identifying unintentional falls in action videos using the 3D Cylindrical Trace Transform. **2017**, 1

436 FallFree: Multiple Fall Scenario Dataset of Cane Users for Monitoring Applications Using Kinect. **2017**, 3

435 Human fall classification system for ceiling-mounted kinect depth images. **2017**, 7

434 Patient cloth with motion recognition sensors based on flexible piezoelectric materials. **2017**, 2017, 2410-2413

433 The use of thermal ir array sensor for indoor fall detection. **2017**, 11

432 I see you lying on the ground Can I help you? Fast fallen person detection in 3D with a mobile robot. **2017**, 4

431 An effective video-based model for fall monitoring of the elderly. **2017**, 2

430 Combining wristband-type devices and smartphones to detect falls. **2017**, 5

429 Social-aware Event Handling within the FallRisk Project. **2017**, 56, 63-73 6

428 Development and Evaluation of a Mobile Application Suite for Enhancing the Social Inclusion and Well-Being of Seniors. **2017**, 4, 15 13

427 Localization and Tracking of Implantable Biomedical Sensors. **2017**, 17, 25

426 Patient Posture Monitoring System Based on Flexible Sensors. **2017**, 17, 26

425	A Behaviour Monitoring System (BMS) for Ambient Assisted Living. **2017**, 17,	23
424	HDOMO: Smart Sensor Integration for an Active and Independent Longevity of the Elderly. **2017**, 17,	10
423	Home Camera-Based Fall Detection System for the Elderly. **2017**, 17,	96
422	Fall Detection for Elderly from Partially Observed Depth-Map Video Sequences Based on View-Invariant Human Activity Representation. **2017**, 7, 316	24
421	A New Approach to Fall Detection Based on the Human Torso Motion Model. **2017**, 7, 993	17
420	UniMiB SHAR: A Dataset for Human Activity Recognition Using Acceleration Data from Smartphones. **2017**, 7, 1101	180
419	Fall Prevention Shoes Using Camera-Based Line-Laser Obstacle Detection System. **2017**, 2017, 8264071	6
418	A Combined One-Class SVM and Template-Matching Approach for User-Aided Human Fall Detection by Means of Floor Acoustic Features. **2017**, 2017, 1512670	19
417	Three Ways to Improve the Performance of Real-Life Camera-Based Fall Detection Systems. **2017**, 2017, 1-15	7
416	An Energy-Efficient Multi-Tier Architecture for Fall Detection Using Smartphones. **2017**, 17,	7
415	Analysis of Public Datasets for Wearable Fall Detection Systems. **2017**, 17,	69
414	Rivulet. **2017**,	5
413	Your Body Defines Your Fall Detection System: A Somatotype-Based Feature Selection Method. **2017**,	
412	A Biomechanical Study for Developing Wearable-Sensor System to Prevent Hip Fractures among Seniors. **2017**, 7, 771	4
411	Activity and Emotion Recognition for Elderly Health Monitoring. **2017**, 17, 81-88	4
410	A Comprehensive Review on Handcrafted and Learning-Based Action Representation Approaches for Human Activity Recognition. **2017**, 7, 110	67
409	Vision-based patient monitoring: a comprehensive review of algorithms and technologies. **2018**, 9, 225-251	59
408	A survey on health monitoring systems for health smart homes. **2018**, 66, 26-56	94

407	FallDeFi. **2018**, 1, 1-25	86
406	A smart capacitive measurement system for fall detection. **2018**, 92, 45-53	2
405	Machine Learning Methods for Behaviour Analysis and Anomaly Detection in Video. **2018**,	
404	3D fall detection for single camera surveillance systems on the street. **2018**,	1
403	Non-intrusive fall detection monitoring for the elderly based on fuzzy logic. **2018**, 124, 91-102	22
402	Development of Home Intelligent Fall Detection IoT System Based on Feedback Optical Flow Convolutional Neural Network. **2018**, 6, 6048-6057	33
401	A Skeleton-Free Fall Detection System From Depth Images Using Random Decision Forest. **2018**, 12, 2994-3005	39
400	Heart rate monitoring, activity recognition, and recommendation for e-coaching. **2018**, 77, 23317-23334	12
399	Generalised and Versatile Connected Health Solution on the Zynq SoC. **2018**, 454-474	
398	Collaborative Fall Detection Using Smart Phone and Kinect. **2018**, 23, 775-788	11
397	The state of knowledge on technologies and their use for fall detection: A scoping review. **2018**, 111, 58-71	46
396	Real-time activity recognition for energy efficiency in buildings. **2018**, 211, 146-160	50
395	Action detection fusing multiple Kinects and a WIMU: an application to in-home assistive technology for the elderly. **2018**, 29, 765-788	4
394	Analyzing the changes of health condition and social capital of elderly people using wearable devices. **2018**, 6, 4	9
393	A Movement Decomposition and Machine Learning-Based Fall Detection System Using Wrist Wearable Device. **2018**, 18, 5082-5089	76
392	Infrared□Ultrasonic sensor fusion for support vector machine□based fall detection. **2018**, 29, 2027-2039	27
391	Combining emerging patterns with random forest for complex activity recognition in smart homes. **2018**, 48, 315-330	28
390	Compressive Representation for Device-Free Activity Recognition with Passive RFID Signal Strength. **2018**, 17, 293-306	42

389	Abnormal event detection based on analysis of movement information of video sequence. **2018**, 152, 50-60	33
388	A Fall Detector Based on Ultra-Wideband Radar Sensing. **2018**, 373-382	1
387	. **2018**, 54, 180-189	121
386	Human Fall Detection by Using an Innovative Floor Acoustic Sensor. **2018**, 97-107	5
385	Energy efficient wearable sensor node for IoT-based fall detection systems. **2018**, 56, 34-46	79
384	A Smart System for Elderly Care using IoT and Mobile Technologies. **2018**,	9
383	Challenges in Data Acquisition Systems: Lessons Learned from Fall Detection to Nanosensors*. **2018**,	1
382	. **2018**,	11
381	An SVM fall recognition algorithm based on a gravity acceleration sensor. **2018**, 6, 208-214	6
380	SPATIO-TEMPORAL CONVOLUTIONAL NEURAL NETWORK FOR ELDERLY FALL DETECTION IN DEPTH VIDEO CAMERAS. **2018**,	5
379	A Two-Stage Incremental Update Method for Fall Detection with Wearable Device. **2018**,	2
378	Analysis and Development of an Automatic eCal1 Algorithm for Wearable Devices. **2018**,	1
377	Principal Component Analysis Based Paralytic Attack Detection Using a New Distance Measure. **2018**, 133, 306-314	
376	A Convolutional Neural Networks Approach with Infrared Array Sensor for Bed-Exit Detection. **2018**,	4
375	An intelligent video-monitoring system to detect falls: a proof of concept. **2018**, 12, 155-168	1
374	Accurate Fall Detection and Localization for Elderly People Based on Neural Network and Energy-Efficient Wireless Sensor Network. **2018**, 11, 2866	33
373	Multimodal Database for Human Activity Recognition and Fall Detection. **2018**, 2, 1237	3
372	Human Activities Detection and Classification Based on Micro-Doppler Signatures Near the Baseline of Forward Scattering Radar. **2018**,	3

371	Human Fall Detection Using RFID Technology. **2018**,	1
370	MBOSS: A Symbolic Representation of Human Activity Recognition Using Mobile Sensors. **2018**, 18,	10
369	Multi-View Classification and 3D Bounding Box Regression Networks. **2018**,	0
368	Few-Shot Siamese Neural Networks Employing Audio Features for Human-Fall Detection. **2018**,	12
367	Fall Detection System Using Artificial Neural Network. **2018**,	8
366	Human Activity Recognition on Smartphones using Symbolic Data Representation. **2018**,	
365	. **2018**, 6, 51286-51296	14
364	A Non-Stationary Channel Model for the Development of Non-Wearable Radio Fall Detection Systems. **2018**, 17, 7718-7730	15
363	RF-Based Fall Monitoring Using Convolutional Neural Networks. **2018**, 2, 1-24	56
362	A Straightforward Route to Sensor Selection for IoT Systems. **2018**, 61, 41-50	3
361	Hips Do Lie! A Position-Aware Mobile Fall Detection System. **2018**,	17
360	A Real-time Pre-impact Fall Detection and Protection System. **2018**,	6
359	Implementation of TOPSIS Methods in Determining Makassar Special Culinary Business Location. **2018**,	1
358	Fall Detection System using Tri- Axial Accelerometer. **2018**,	1
357	Computer Vision Based Fall Detection Methods Using the Kinect Camera : A Survey. **2018**, 10, 73-92	1
356	Design and Application of Communication Module in Intelligent Temperature Transmitter Based on Freemodbus. **2018**,	
355	SEEMS 2018 Preface. **2018**,	
354	Pre-Impact Fall Detection Based on a Modified Zero Moment Point Criterion Using Data From Kinect Sensors. **2018**, 18, 5522-5531	15

353	Fall Detection with Unobtrusive Infrared Array Sensors. **2018**, 253-267	5
352	New Advances and Challenges of Fall Detection Systems: A Survey. **2018**, 8, 418	71
351	Analysis of a Smartphone-Based Architecture with Multiple Mobility Sensors for Fall Detection with Supervised Learning. **2018**, 18,	29
350	Elderly fall detection system based on multiple shape features and motion analysis. **2018**,	15
349	. **2018**, 6, 12551-12572	1
348	. **2018**, 6, 44776-44786	17
347	A Scientometric Study of Neurocomputing Publications (1992–2018): An Aerial Overview of Intrinsic Structure. **2018**, 6, 32	18
346	A Multisensory Approach for Remote Health Monitoring of Older People. **2018**, 2, 102-108	34
345	A Multi-sensor Fall Detection System Based on Multivariate Statistical Process Analysis. **2019**, 39, 336-351	7
344	Quantifying and Processing Biomedical and Behavioral Signals. **2019**,	1
343	Real-Time Detection of Fall From Bed Using a Single Depth Camera. **2019**, 16, 1018-1032	16
342	Fall detection using optical level anonymous image sensing system. **2019**, 110, 44-61	16
341	Time-Frequency Characteristics of In-Home Radio Channels Influenced by Activities of the Home Occupant. **2019**, 19,	2
340	RT-ADI: Fast Real-Time Video Representation for Multi-view Human Fall Detection. **2019**,	0
339	Activities Recognition and Fall Detection in Continuous Data Streams Using Radar Sensor. **2019**,	4
338	Pre-Impact Fall Detection Using 3D Convolutional Neural Network. **2019**, 2019, 1173-1178	8
337	Human Activity Recognition in Smart Home With Deep Learning Approach. **2019**,	6
336	Comprehensive evaluation of skeleton features-based fall detection from Microsoft Kinect v2. **2019**, 13, 1431-1439	7

335	Two-Stage Latent Dynamics Modeling and Filtering for Characterizing Individual Walking and Running Patterns with Smartphone Sensors. **2019**, 19,	1
334	An Advanced First Aid System Based on an Unmanned Aerial Vehicles and a Wireless Body Area Sensor Network for Elderly Persons in Outdoor Environments. **2019**, 19,	12
333	Detection and classification Real-Time of Fall Events from the Daily Activities of Human Using Forward Scattering Radar. **2019**,	0
332	A Wearable Fall Detection System Using Deep Learning. **2019**, 445-456	5
331	Practical fall detection based on IoT technologies: A survey. **2019**, 8, 100124	16
330	A vision-based approach for fall detection using multiple cameras and convolutional neural networks: A case study using the UP-Fall detection dataset. **2019**, 115, 103520	38
329	Computer Vision Applications. **2019**,	
328	Fall Detection for Elderly People Using the Variation of Key Points of Human Skeleton. **2019**, 7, 154786-154795	9
327	Background-Subtraction Algorithm Optimization for Home Camera-Based Night-Vision Fall Detectors. **2019**, 7, 152399-152411	6
326	EEG/EMG based Architecture for the Early Detection of Slip-induced Lack of Balance. **2019**,	3
325	Fall detection algorithm based on accelerometer and gyroscope sensor data using Recurrent Neural Networks. **2019**, 258, 012035	8
324	Fallen People Detection Capabilities Using Assistive Robot. **2019**, 8, 915	11
323	Privacy-Enhancing Fall Detection from Remote Sensor Data Using Multi-Party Computation. **2019**,	0
322	Activity-Aware Wearable System for Power-Efficient Prediction of Physiological Responses. **2019**, 19,	15
321	Learning spatiotemporal representations for human fall detection in surveillance video. **2019**, 59, 215-230	33
320	UP-Fall Detection Dataset: A Multimodal Approach. **2019**, 19,	97
319	Beyond position-awarenessExtending a self-adaptive fall detection system. **2019**, 58, 101026	9
318	. **2019**, 7, 77702-77722	68

317	An efficient vision based elderly care monitoring framework using fall detection. **2019**, 22, 603-611	3
316	ViFa: an analytical framework for vision-based fall detection in a surveillance environment. **2019**, 78, 25515-25537	4
315	Wearable Embedded Intelligence for Detection of Falls Independently of on-Body Location. **2019**, 19,	11
314	Unobtrusive Monitoring the Daily Activity Routine of Elderly People Living Alone, with Low-Cost Binary Sensors. **2019**, 19,	14
313	Recognizing Human Falls and Routine Activities Using Accelerometers. **2019**,	1
312	Intelligent fall detection method based on accelerometer data from a wrist-worn smart watch. **2019**, 140, 215-226	29
311	A fall detection method based on multi-threshold value and EML learning machine. **2019**,	
310	An intelligent monitoring system for indoor safety of individuals suffering from Autism Spectrum Disorder (ASD). **2019**, 1	3
309	A Vision-Based Posture Monitoring System for the Elderly Using Intelligent Fall Detection Technique. **2019**, 249-269	3
308	Applying singular value decomposition on accelerometer data for 1D convolutional neural network based fall detection. **2019**, 55, 320-322	8
307	An Empirical Study Towards Understanding How Deep Convolutional Nets Recognize Falls. **2019**, 112-127	2
306	Long Short-Term Memory for Human Fall Detection Based Gamification on Unconstraint Smartphone Position. **2019**,	1
305	Analysis of Contextual Sensors for Fall Detection. **2019**,	
304	Mobile Leaf Identification System using CNN applied to plants in Hokkaido. **2019**,	0
303	Deep Learning Wi-Fi Channel State Information for Fall Detection. **2019**,	2
302	3D Barycentric Interpolation Method for Animal Brainmapping. **2019**,	
301	Research on Harmonic Composition of Voltage and Current of Induction Generator with High Saturation Magnetic System. **2019**,	4
300	Hand-Guidance of a Mobile Manipulator Using Online Effective Mass Optimization. **2019**,	

299	Prime Number Theory based Multi-Radio Rendezvous for Cognitive Radio Communication. **2019**,	
298	. **2019**,	
297	Structural Equation Modeling-Based Consumers Intention to Utilize Renewable Energy Technologies: A Case of Pakistan. **2019**,	7
296	Blank page. **2019**, 55, C4-C4	
295	Efficient Protocol for Quick Connection Resumption for URLLC Devices. **2019**,	0
294	Missing Values Estimation on Multivariate Dataset : Comparison of Three Type Methods Approach. **2019**,	1
293	Evaluation of time-frequency features as detectors of lack of balance due to tripping-like perturbations. **2019**, 2019, 2443-2446	
292	HI-POCT 2019 Committees. **2019**,	
291	[Blank page]. **2019**, 31, C4-C4	
290	Hopf Bifurcation and Chaos of A Class of Inertial Two-Neuron System with Time Delay. **2019**,	
289	A Bi-directional Multiple Timescales LSTM Model for Grounding of Actions and Verbs. **2019**,	3
288	A Hamiltonian Decomposition-based Splitting Method for Interior Point Solvers in Model Predictive Control. **2019**,	1
287	An Elementary Approach to Convergence Guarantees of Optimization Algorithms for Deep Networks. **2019**,	0
286	Message from the Workshop Chairs. **2019**,	
285	Forecasting of Trends in Legal Spend Management. **2019**,	
284	SVM Model for Feature Selection to Increase Accuracy and Reduce False Positive Rate in Falls Detection. **2019**,	2
283	Recognition of Aggressive Interactions of Children Toward Robotic Toys. **2019**,	7
282	Detecting Falls with Recurrent Autoencoders and Body Acceleration Data. **2019**,	0

281	Sway Risk Analysis Based on Age Group Classification. **2019**, 2019, 392-398	
280	Falls Prediction Based on Body Keypoints and Seq2Seq Architecture. **2019**,	5
279	Revista Iberoamericana de Tecnologías del Aprendizaje (IEEE-RITA) (Latin-American Learning Technologies Journal) Society Information. **2019**, 14, C3-C3	
278	A Wide Component Sizing and Performance Assessment of Electric Drivetrains for Electric Vehicles. **2019**,	2
277	An Edge-based Multiple Total Variation model. **2019**,	
276	. **2019**,	
275	Control and Experiment of Advanced Traction Power Supply System Based on 15 NPC Cascaded Converter Modules. **2019**,	
274	. **2019**,	1
273	Remaining Useful Lifetime Prediction for the Equipment with the Random Failure Threshold. **2019**,	
272	On Some Posibilities of the Specificity Evaluation for the Expressing Parameters of Heart Rate Variability in Task of the Arterial Hypertension Diagnosing. **2019**,	
271	. **2019**,	
270	Equivalent Substitution and Stability Analysis of Parallel Inverter. **2019**,	
269	Dense Encoder-Decoder Network based on Two-Level Context Enhanced Residual Attention Mechanism for Segmentation of Breast Tumors in Magnetic Resonance Imaging. **2019**,	2
268	A Novel Method Based on Optical Flow Combining with Wide Residual Network for Fall Detection. **2019**,	0
267	. **2019**,	23
266	. **2019**,	3
265	Evaluating the Suitability of a Smart Technology Application for Fall Detection Using a Fuzzy Collaborative Intelligence Approach. **2019**, 7, 1097	30
264	Gait Estimation and Analysis from Noisy Observations. **2019**, 2019, 2707-2712	0

263	FMCW radar and inertial sensing synergy for assisted living. **2019**, 2019, 6784-6789	3
262	Smart Health. **2019**,	0
261	Environment Monitoring for Anomaly Detection System Using Smartphones. **2019**, 19,	4
260	Fall Detection on a single Doppler Radar Sensor by using Convolutional Neural Networks. **2019**,	4
259	Human Fall Detection during Activities of Daily Living using Extended CORE9. **2019**,	2
258	Fall detection for multiple pedestrians using a PCA approach to 3-D inclination. **2019**, 11, 184797901987897	
257	Wearable assistive device for human motion and health monitoring. **2019**,	
256	An Intelligent Video Surveillance System for Anomaly Detection in Home Environment Using a Depth Camera. **2019**, 473-481	1
255	Human health monitoring using wearable sensor. **2019**, 39, 364-376	12
254	Human fall detection using normalized shape aspect ratio. **2019**, 78, 14331-14353	7
253	A survey on data fusion in internet of things: Towards secure and privacy-preserving fusion. **2019**, 51, 129-144	90
252	A review of state-of-the-art techniques for abnormal human activity recognition. **2019**, 77, 21-45	85
251	Recognition of emergency situations using audio□visual perception sensor network for ambient assistive living. **2019**, 10, 41-55	3
250	Remote patient monitoring: a comprehensive study. **2019**, 10, 57-76	141
249	Human fall detection using slow feature analysis. **2019**, 78, 9101-9128	12
248	Ambient assistance service for fall and heart problem detection. **2019**, 10, 1527-1546	19
247	Deep Learning for Fall Detection: Three-Dimensional CNN Combined With LSTM on Video Kinematic Data. **2019**, 23, 314-323	124
246	Spatio-temporal fall event detection in complex scenes using attention guided LSTM. **2020**, 130, 242-249	32

245	Fall detection and human activity classification using wearable sensors and compressed sensing. **2020**, 11, 349-361	38
244	FriWalk robotic walker: usability, acceptance and UX evaluation after a pilot study in a real environment. **2020**, 15, 718-727	2
243	Fall detection system with portable camera. **2020**, 11, 2647-2659	7
242	Wearable Sensor Applications: Processing of Egocentric Videos and Inertial Measurement Unit Data. **2020**, 149-173	
241	Are cost-effective technologies feasible to measure gait in older adults? A systematic review of evidence-based literature. **2020**, 87, 103970	9
240	Real-Time Fall Detection Using Uncalibrated Fisheye Cameras. **2020**, 12, 588-600	1
239	An IoT based device-type invariant fall detection system. **2020**, 9, 100130	28
238	Online Testing in Machine Learning Approach for Fall Detection. **2020**,	
237	Docker based Intelligent Fall Detection using Edge-Fog Infrastructure. **2020**, 53, 45-50	0
236	Fall detection for elderly-people monitoring using learned features and recurrent neural networks. **2020**, 1,	0
235	Evaluation of convolutional neural networks for the classification of falls from heterogeneous thermal vision sensors. **2020**, 16, 155014772092048	5
234	Effective Deep-Learning-Based Depth Data Analysis on Low-Power Hardware for Supporting Elderly Care. **2020**,	0
233	A Novel Random Neural Network-based Fall Activity Recognition. **2020**,	1
232	Deep Learning Based Systems Developed for Fall Detection: A Review. **2020**, 8, 166117-166137	15
231	Sensor Location Analysis and Minimal Deployment for Fall Detection System. **2020**, 8, 166678-166691	3
230	Automatic fall detection using region-based convolutional neural network. **2020**, 27, 546-557	4
229	EnsemConvNet: a deep learning approach for human activity recognition using smartphone sensors for healthcare applications. **2020**, 79, 31663-31690	23
228	A Robust Feature Extraction Model for Human Activity Characterization Using 3-Axis Accelerometer and Gyroscope Data. **2020**, 20,	6

227	Comparative Analysis of Real-Time Fall Detection Using Fuzzy Logic Web Services and Machine Learning. **2020**, 8, 74	0
226	Occupational falls: interventions for fall detection, prevention and safety promotion. **2020**, 1-16	2
225	Deep Learning with network of Wearable sensors for preventing the Risk of Falls for Older People. **2020**, 928, 032050	1
224	Distributed Radar Information Fusion for Gait Recognition and Fall Detection. **2020**,	3
223	Fall detection for elderly-people monitoring using learned features and recurrent neural networks. **2020**,	
222	Fall detection for elderly-people monitoring using learned features and recurrent neural networks. **2020**,	
221	Deep Learning-Based Portable Device for Audio Distress Signal Recognition in Urban Areas. **2020**, 10, 7448	1
220	. **2020**, 1-1	4
219	IR-UWB Sensor Based Fall Detection Method Using CNN Algorithm. **2020**, 20,	8
218	Acceleration Magnitude at Impact Following Loss of Balance Can Be Estimated Using Deep Learning Model. **2020**, 20,	2
217	Recognition of Rare Low-Moral Actions Using Depth Data. **2020**, 20,	
216	A Comparison of Machine Learning Algorithms for Fall Detection using Wearable Sensors. **2020**,	5
215	Fall Detection Based on Key Points of Human-Skeleton Using OpenPose. **2020**, 12, 744	36
214	Fall detection algorithm for the elderly based on human posture estimation. **2020**,	5
213	A Multi-Elements Chessboard Random Coded Metasurface Structure for Ultra-Wideband Radar Cross Section Reduction. **2020**, 8, 56462-56468	1
212	Feedbackless Relaying for Enhancing Reliability of Connected Vehicles. **2020**, 69, 4621-4634	3
211	Vision-Based Fall Detection With Multi-Task Hourglass Convolutional Auto-Encoder. **2020**, 8, 44493-44502	18
210	Elderly fall detection based on multi-stream deep convolutional networks. **2020**, 79, 19537-19560	20

209	A Study on the Application of Convolutional Neural Networks to Fall Detection Evaluated with Multiple Public Datasets. **2020**, 20,	37
208	Spatiotemporal event detection: a review. **2020**, 13, 1339-1365	30
207	Fall Detection Using the Histogram of Oriented Gradients and Decision-Based Fusion. **2020**, 16, 257-265	1
206	Cluster-Analysis-Based User-Adaptive Fall Detection Using Fusion of Heart Rate Sensor and Accelerometer in a Wearable Device. **2020**, 8, 40389-40401	15
205	Room-Level Fall Detection Based on Ultra-Wideband (UWB) Monostatic Radar and Convolutional Long Short-Term Memory (LSTM). **2020**, 20,	18
204	Human Posture Recognition in Intelligent Healthcare. **2020**, 1437, 012014	5
203	A Noble Double-Dictionary-Based ECG Compression Technique for IoTH. **2020**, 7, 10160-10170	17
202	Sensor Technologies for Fall Detection Systems: A Review. **2020**, 20, 6889-6919	25
201	Depth and thermal information fusion for head tracking using particle filter in a fall detection context. **2020**, 27, 195-208	9
200	Challenges and Trends in Multimodal Fall Detection for Healthcare. **2020**,	2
199	Wearable solution for robust fall detection. **2020**, 81-105	1
198	A Study of the Use of Gyroscope Measurements in Wearable Fall Detection Systems. **2020**, 12, 649	15
197	Privacy-preserving video fall detection using visual shielding information. **2021**, 37, 359-370	7
196	Accident Detection System for Bicycle Riders. **2021**, 21, 878-885	6
195	Audio Metric Learning by Using Siamese Autoencoders for One-Shot Human Fall Detection. **2021**, 5, 108-118	6
194	Vision-Based Fall Detection Using Dense Block With Multi-Channel Convolutional Fusion Strategy. **2021**, 9, 18318-18325	3
193	Success and Hindrance Factors of AHA-Oriented Open Service Platforms. **2021**, 656-668	1
192	A Machine Learning Multi-Class Approach for Fall Detection Systems Based on Wearable Sensors with a Study on Sampling Rates Selection. **2021**, 21,	10

191	. **2021**, 9, 42724-42761		2
190	Personalized Human Activity Recognition Based on Integrated Wearable Sensor and Transfer Learning. **2021**, 21,		15
189	A Study of Fall Detection System Using Context Cognition Method. **2021**,		
188	. **2021**, 9, 129965-129976		4
187	Smart E-Health Home Supervision Systems. **2021**, 201-220		
186	The Smart Fall Detection Mechanism for Healthcare Under Free-Living Conditions. **2021**, 118, 715-753		3
185	Chatty Devices and edge-based activity classification. **2021**, 1, 1		0
184	A Video-based Fall Detection Network by Spatio-temporal Joint-point Model on Edge Devices. **2021**,		1
183	Classification of Indoor Human Fall Events Using Deep Learning. **2021**, 23,		9
182	A vision-based fall detection framework for the elderly in a room environment using motion features and DAG-SVM. 1-9		1
181	A systematic review on machine learning for fall detection system. **2021**, 37, 951-974		6
180	Binary classification of floor vibrations for human activity detection based on dynamic mode decomposition. *Neurocomputing*, **2021**, 432, 227-239	5.4	1
179	Enhanced bag-of-words representation for human activity recognition using mobile sensor data. **2021**, 15, 1739		2
178	Smart walking assistant (SWA) for elderly care using an intelligent realtime hybrid model. 1		5
177	Sensor-based fall detection systems: a review. 1		8
176	A Novel mHealth Monitoring System during Cycling in Elite Athletes. **2021**, 18,		4
175	Movement Tube Detection Network Integrating 3D CNN and Object Detection Framework to Detect Fall. **2021**, 10, 898		1
174	Smart Fall Detection Framework Using Hybridized Video and Ultrasonic Sensors. **2021**, 12,		3

173	Docker-Based Intelligent Fall Detection Using Edge-Fog Cloud Infrastructure. **2021**, 8, 8133-8144	3
172	Fall Detection Using Half Circle Ultrasonic Array Sensors for Indoor Environment. **2021**,	
171	A machine learning based sentient multimedia framework to increase safety at work. **2021**, 1-29	3
170	REDECA: A Novel Framework to Review Artificial Intelligence and Its Applications in Occupational Safety and Health. **2021**, 18,	2
169	Saliency based human fall detection in smart home environments using posture recognition. **2021**, 27, 14604582211030954	1
168	Fall detection with accelerometer data using Residual Networks adapted to multi-variate time series classification. **2021**,	
167	Real time fall detection using infrared cameras and reflective tapes under day/night luminance. **2021**, 13, 285-300	2
166	A human fall detection framework based on multi-camera fusion. 1-20	3
165	Elderly Fall Detection and Warning System. **2021**, 794, 012131	0
164	Fall Detection of Elderly People Using the Manifold of Positive Semidefinite Matrices. **2021**, 7, 109	2
163	Innovative IoT Solutions and Wearable Sensing Systems for Monitoring Human Biophysical Parameters: A Review. **2021**, 10, 1660	6
162	Latest Research Trends in Fall Detection and Prevention Using Machine Learning: A Systematic Review. **2021**, 21,	16
161	Design of a Hip Exoskeleton With Actuation in Frontal and Sagittal Planes. **2021**, 3, 773-782	4
160	Fall Event Detection System Using Inception-Densenet Inspired Sparse Siamese Network. **2021**, 5, 1-4	0
159	Bibliometric Analysis of Home Health and Internet of Health Things (IoHT). **2022**, 75-88	0
158	Invited Commentary-Exploring patterns of personal alarm system use and impacts on outcomes. **2021**, 40, 241-242	
157	Fall Detection with CNN-Casual LSTM Network. **2021**, 12, 403	3
156	A dual-stream fused neural network for fall detection in multi-camera and (360^{circ }) videos. 1	3

155	Contactless Fall Detection for the Elderly. **2021**, 203-235	8
154	Contactless Human Activity Analysis: An Overview of Different Modalities. **2021**, 83-112	3
153	Detecting Falls-from-Height with Wearable Sensors and Reducing Consequences of Occupational Fall Accidents Leveraging IoT. **2019**, 207-214	6
152	Application of Convolutional Neural Networks for Fall Detection Using Multiple Cameras. **2020**, 97-120	5
151	How to Handle Data Management of Assisting Lifelogging Technologies from a User Point of View. **2020**, 510-530	1
150	SaveMeNow.AI: A Machine Learning Based Wearable Device for Fall Detection in a Workplace. **2021**, 493-514	1
149	Human Fall Detection Using Kinect Sensor. **2013**, 743-752	8
148	Evaluation of a Time Reversal Method with Dynamic Time Warping Matching Function for Human Fall Detection Using Structural Vibrations. **2014**, 171-176	4
147	Lateral Fall Detection via Events in Linear Prediction Residual of Acceleration. **2014**, 201-208	1
146	Body Fall Detection with Kalman Filter and SVM. **2015**, 407-416	3
145	Coupling Fall Detection and Tracking in Omnidirectional Cameras. **2014**, 73-85	3
144	Smart Camera Reconfiguration in Assisted Home Environments for Elderly Care. **2015**, 45-58	3
143	Behavior Analysis for Elderly. **2015**, 1-10	2
142	AtHoCare: An Intelligent Elder Care at Home System. **2016**, 298-305	4
141	Thermal Imaging Based Elderly Fall Detection. **2017**, 541-553	9
140	A Reconfigurable Connected Health Platform Using ZYNQ System on Chip. **2018**, 857-867	1
139	An End-To-End Unsupervised Approach Employing Convolutional Neural Network Autoencoders for Human Fall Detection. **2019**, 185-196	7
138	Unobtrusive Fall Detection at Home Using Kinect Sensor. **2013**, 457-464	6

137	Fall Detection Using Kinect Sensor and Fall Energy Image. **2013**, 294-303	3
136	Human Fall Detection System over IMU Sensors Using Triaxial Accelerometer. **2019**, 495-507	3
135	Dynamic Image Networks for Human Fall Detection in 360-degree Videos. **2019**, 65-78	2
134	Energy-Efficient Smart Wearable IoT Device for the Application of Collapse Motion Detection and Alert. 1-7	3
133	Evaluation of Feature Extraction and Recognition for Human Activity using Smartphone based Accelerometer data. **2019**,	1
132	Robust Pose-Based Human Fall Detection Using Recurrent Neural Network. **2019**,	5
131	Capacitor-based Activity Sensing for Kinetic-powered Wearable IoTs. **2020**, 1, 1-26	6
130	Ultrafast Local Outlier Detection from a Data Stream with Stationary Region Skipping. **2020**,	2
129	Sports Motion Recognition Using MCMR Features Based on Interclass Symbolic Distance. **2016**, 12, 7483536	7
128	Human Fall Detection Using Machine Learning Methods: A Survey. **2019**, 5, 161-180	4
127	Potential of Human Tracking in Assistive Technologies for Children with Cognitive Disabilities. **2017** , 245-266	2
126	Methodical IoT-Based Information System in Healthcare. **2020**, 155-177	8
125	Activity Recognition System Through Deep Learning Analysis as an Early Biomarker of ASD Characteristics. **2020**, 228-249	2
124	Design of a Smart Sole with Advanced Fall Detection Algorithm. **2019**, 09, 71-90	9
123	Smart Wearables with Sensor Fusion for Fall Detection in Firefighting. **2021**, 21,	2
122	Generating synthetic dysarthric speech to overcome dysarthria acoustic data scarcity. 1	0
121	Real-Time Fall Detection Based on Global Orientation and Human Shape. **2014**, 653-660	
120	Person Detection and Head Tracking to Detect Falls in Depth Maps. **2014**, 324-331	2

119	Using a Smartphone as a Track and Fall Detector. **2015**, 272-295	
118	Critical Behavior Monitoring for Children with Special Needs in Preventing Physical Injury Using Kinect. **2015**, 211-249	
117	Snippet Based Trajectory Statistics Histograms for Assistive Technologies. **2015**, 3-16	
116	Fall Detection Algorithm Based on Thresholds and Residual Events. **2015**, 575-583	
115	Using a Smartphone as a Track and Fall Detector. **2016**, 922-944	
114	Privacy-Preserving Fall Detection in Healthcare Using Shape and Motion Features from Low-Resolution RGB-D Videos. **2016**, 490-499	1
113	Modeling the In-home Lifestyle of Chronic Anorectal Patients via a Sensing Home. **2016**, 188-199	1
112	Smart Senior Residences. **2018**, 65-85	1
111	Potential of Human Tracking in Assistive Technologies for Children With Cognitive Disabilities. **2018**, 972-993	
110	Smartphone Based Fall Detection Using Thresholding and Machine Learning Approach.	
109	Data Reduction Techniques for Near Real-Time Decision Making in Fall Prediction Systems. **2018**, 52-64	
108	Background. **2018**, 9-35	
107	3D Convolutional Neural Networks based Fall Detection with Thermal Camera. **2018**, 13, 45-54	1
106	Accuracy Comparison of ML-Based Fall Detection Algorithms Using Two Different Acceleration Derived Feature Vectors. **2019**, 481-485	
105	Digital Signal Processing for Audio Applications: Then, Now and the Future. **2019**, 37-51	
104	Using Deep Learning and Smartphone for Automatic Detection of Fall and Daily Activities. **2019**, 61-74	4
103	Activity Recognition System Optimisation Using Triaxial Accelerometers. **2020**, 119-128	
102	Virtual Falls. **2020**,	

101	A Fall Detection System based on the Type II Fuzzy Logic and Multi-Objective PSO Algorithm. **2020**, 17, 47-60	0
100	Multi-level Recognition on Falls from Activities of Daily Living. **2020**,	0
99	Using Accelerometers in Mobile Phones to Estimate Blood Alcohol Levels. **2020**,	0
98	Classification of Daily Life Activities for Human Fall Detection: A Systematic Review of the Techniques and Approaches. **2020**, 137-179	2
97	FD-Band: A Ubiquitous Fall Detection System Using Low-Cost COTS Smart Band. **2020**,	
96	Hybrid Real-Time Fall Detection System Based on Deep Learning and Multi-sensor Fusion. **2020**,	0
95	Wi-Fi-CSI-based Fall Detection by Spectrogram Analysis with CNN. **2020**,	4
94	An Elderly Fall Detection System using Depth Images. **2020**,	1
93	Fall Detection Based on RetinaNet and MobileNet Convolutional Neural Networks. **2020**,	1
92	Recognition of lower limb movements using empirical mode decomposition and k-nearest neighbor entropy estimator with surface electromyogram signals. **2022**, 71, 103198	1
91	Intelligent Real-Time Multimodal Fall Detection in Fog Infrastructure Using Ensemble Learning. **2020**, 53-79	3
90	Implementation of a SVM on an Embedded System: A Case Study on Fall Detection. **2020**, 76-87	0
89	Critical Behavior Monitoring for Children with Special Needs in Preventing Physical Injury Using Kinect. 2059-2099	
88	Implementing an intelligent video monitoring system to detect falls of older adults at home: a multiple case study. **2020**, 14, 253-271	1
87	A Generalized Tonic-Clonic Seizure Detection Method in a Bathtub using a Natural Language Verification Step. **2020**,	0
86	Vision Based Real Time Monitoring System for Elderly Fall Event Detection Using Deep Learning. **2022**, 42, 87-103	3
85	Multi-oriented run length based static and dynamic features fused with Choquet fuzzy integral for human fall detection in videos. **2022**, 82, 103375	2
84	Applying deep learning technology for automatic fall detection using mobile sensors. **2022**, 72, 103355	2

83	Machine Learning Based Fall Detector With a Sensorized Tip. **2021**, 9, 164106-164117	
82	Computational Solutions for Human Falls Classification. **2021**, 9, 161590-161602	0
81	Internet of Health Things driven Deep Learning-based System for Non-Invasive Patient Discomfort Detection using Time Frame Rules and Pairwise Keypoints Distance Feature. **2022**, 103672	1
80	ARFDNet: An efficient activity recognition & fall detection system using latent feature pooling. **2022**, 239, 107948	5
79	A Tensor Approach for Activity Recognition and Fall Detection Using Wearable Inertial Sensors. **2020**,	
78	Confidence-based Fall Detection Using Multiple Surveillance Cameras. **2021**, 2021, 3974-3977	0
77	Human Fall Detection Using Passive Infrared Sensors with Low Resolution: A Systematic Review.. **2022**, 17, 35-53	2
76	Fall event detection with global and temporal local information in real-world videos. **2022**, 81, 6943	
75	A convolution neural network approach for fall detection based on adaptive channel selection of UWB radar signals. 1	0
74	Imitating Emergencies: Generating Thermal Surveillance Fall Data Using Low-Cost Human-like Dolls.. **2022**, 22,	0
73	Bluetooth-Low-Energy-Based Fall Detection and Warning System for Elderly People in Nursing Homes. **2022**, 2022, 1-14	1
72	Coupling of Dimensionality Reduction and Stacking Ensemble Learning for Smartphone-Based Human Activity Recognition. **2022**, 14, 0-0	
71	Identification of the cause of fall during the pre-impact fall period.. **2022**, 34, 320-326	0
70	Wi-Fi-based Fall Detection Using Spectrogram Image of Channel State Information. **2022**, 1-1	2
69	Towards understanding on the development of wearable fall detection: an experimental approach. **2022**, 12, 345-358	
68	A machine learning approach for non-invasive fall detection using Kinect. 1	2
67	Vision-based techniques for fall detection in 360? videos using deep learning: Dataset and baseline results. 1	0
66	A Survey of IoT-Based Fall Detection for Aiding Elderly Care: Sensors, Methods, Challenges and Future Trends. **2022**, 12, 3276	1

65	Human fall detection and activity monitoring: a comparative analysis of vision-based methods for classification and detection techniques. **2022**, 26, 3679-3701	1
64	RGB camera-based fallen person detection system embedded on a mobile platform. **2022**, 197, 116715	0
63	Acceptance and Preferences of Using Ambient Sensor-Based Lifelogging Technologies in Home Environments.. **2021**, 21,	1
62	Concept-to-implementation of New Threshold-based Fall Detection Sensor. **2021**,	0
61	Adaptive Multimodal Fusion Framework for Activity Monitoring of People with Mobility Disability.. **2022**, PP,	1
60	Personnel status detection model suitable for vertical federated learning structure. **2022**,	1
59	Automatic fall detection by using Doppler-radar and LSTM-based recurrent neural network. **2022**,	0
58	Virtual reality in training artificial intelligence-based systems: a case study of fall detection. 1	
57	A Data-Driven Approach for Online Pre-impact Fall Detection with Wearable Devices. **2022**, 133-147	
56	Elderly fall detection based on convolutional neural network. **2022**,	
55	Near-Fall Detection in Unexpected Slips during Over-Ground Locomotion with Body-Worn Sensors among Older Adults.. **2022**, 22,	0
54	A Fall Detection Network by 2D/3D Spatio-temporal Joint Models with Tensor Compression on Edge.	
53	Interplay of Perceptions of Aging, Care, and Technology Acceptance in Older Age. 1-13	1
52	Intelligent Elderly People Fall Detection Based on Modified Deep Learning Deep Transfer Learning and IoT Using Thermal Imaging-Assisted Pervasive Surveillance. **2022**, 113-132	1
51	The State-of-the-Art Sensing Techniques in Human Activity Recognition: A Survey. **2022**, 22, 4596	0
50	Sensors as Neural Computing Units. **2022**,	
49	Activity recognition within smart homes using logistic regression. **2022**,	0
48	A Comprehensive Survey of Various Approaches on Human Fall Detection for Elderly People.	0

47	EEG Wavelet Classification for Fall Detection with Genetic Programming. **2022**,	
46	Analyzing technology acceptance and perception of privacy in ambient assisted living for using sensor-based technologies. **2022**, 17, e0269642	0
45	Lightweight Fall Detection Algorithm Based on AlphaPose Optimization Model and ST-GCN. **2022**, 2022, 1-15	2
44	Human Activity Recognition Based on Non-Contact Radar Data and Improved PCA Method. **2022**, 12, 7124	
43	A Lightweight Subgraph-Based Deep Learning Approach for Fall Recognition. **2022**, 22, 5482	0
42	A Simplistic and Cost-Effective Design for Real-World Development of an Ambient Assisted Living System for Fall Detection and Indoor Localization: Proof of Concept.	
41	Real-Time Elderly Monitoring for Senior Safety by Lightweight Human Action Recognition. **2022**,	0
40	A Simplistic and Cost-Effective Design for Real-World Development of an Ambient Assisted Living System for Fall Detection and Indoor Localization: Proof-of-Concept. **2022**, 13, 363	0
39	Falling and Drowning Detection Framework Using Smartphone Sensors. **2022**, 2022, 1-12	
38	Multi Visual Modality Fall Detection Dataset. **2022**, 1-1	0
37	Doppler Radar Technique for Geriatric Fall Detection. **2022**, 343-350	0
36	AIFMS Autonomous Intelligent Fall Monitoring System for the Elderly Persons. **2022**, 13, 1-22	0
35	Exploring Human Pose Estimation and the Usage of Synthetic Data for Elderly Fall Detection in Real-World Surveillance. **2022**, 10, 94249-94261	0
34	Privacy-Preserving, Thermal Vision With Human in the Loop Fall Detection Alert System. **2022**, 1-12	0
33	A Review on Fall Detection in Smart Home for Elderly and Disabled People. **2022**, 26, 747-757	1
32	Research on CNN-BiLSTM Fall Detection Algorithm Based on Improved Attention Mechanism. **2022**, 12, 9671	0
31	SafeLanding: An Intelligent Airbag System for Automated Fall Detection and Protection using Machine Learning and Internet-Of-Things (IoT). **2022**,	0
30	Fall Detection Based on Action Structured Method and Cascaded Dilated Graph Convolution Network. **2022**, 525-535	0

29	Comparative Analysis of Machine Learning Algorithms for Classification of Environmental Sounds and Fall Detection. **2022**, 4, 163-174	1
28	The Effect of Sensor Placement for Accurate Fall Detection based on Deep Learning Model. **2022**,	0
27	Abnormal Gait and Tremor Detection in the Elderly Ambulatory Behavior Using an IoT Smart Cane Device. **2022**, 2, 528-543	0
26	Significant Features for Human Activity Recognition Using Tri-Axial Accelerometers. **2022**, 22, 7482	1
25	Multimodal Classification Technique for Fall Detection of Alzheimer Patients by Integration of a Novel Piezoelectric Crystal Accelerometer and Aluminum Gyroscope with Vision Data. **2022**, 2022, 1-11	0
24	Multi-resolution CNN for Lower Limb Movement Recognition Based on Wearable Sensors. **2022**, 111-119	0
23	AI based elderly fall prediction system using wearable sensors: A smart home-care technology with IOT. **2023**, 25, 100614	2
22	A Real-Time Fall Classification Model Based on Frame Series Motion Deformation. **2022**, 159-173	0
21	GAN-based Radar Micro-Doppler Augmentation for High Accuracy Fall Detection System. **2022**,	0
20	Performance enhancement of vision based fall detection using ensemble of machine learning model.	0
19	Interdisciplinary perspectives on privacy awareness in lifelogging technology development.	0
18	Implementation of IMU sensor for Fall Detection in Dementia Syndrome Patients with Location Notification System. **2022**, 2406, 012010	0
17	Human Fall Detection Using 3D Multi-Stream Convolutional Neural Networks with Fusion. **2022**, 12, 3060	1
16	MLMO-HSM: Multi-label Multi-output Hybrid Sequential Model for multi-resident smart home activity recognition.	0
15	Shapes of You? Investigating the Acceptance of Video-Based AAL Technologies Applying Different Visualization Modes. **2023**, 23, 1143	0
14	Real-Time Human Fall Recognition based on Deep Learning Methods and Single Depth Image with Privacy Requirements. **2022**,	0
13	A Cost-Effective Fall-Detection Framework for the Elderly Using Sensor-Based Technologies. **2023**, 15, 3982	0
12	Radar-based human activity recognition with adaptive thresholding towards resource constrained platforms. **2023**, 13,	0

11	Detecting Human Falls in Poor Lighting: Object Detection and Tracking Approach for Indoor Safety. **2023**, 12, 1259	0
10	A Portable Device for Supporting Autonomous and Healthy Urban Ageing: The PROLONG System. **2023**, 1598-1610	0
9	Designing a Soft-Actuated Smart Garment for Postural Control and Fall Prevention in Elderly Women. **2023**, 121-135	0
8	A Study Real-Time WLAN Sensing System Using Channel State Information. **2023**,	0
7	A Flexible Fall Detection Framework Based on Object Detection and Motion Analysis. **2023**,	0
6	ADGSC: video anomaly detection algorithm based on graph structure change detection in public places.	0
5	Research on Recognition Model of Abnormal Behavior of the Elderly Based on Few-Shot Learning. **2023**, 13, 465-471	0
4	Cost-effective Elderly Fall Detection with Symmetry Transformer Networks. **2022**,	0
3	LT-Fall. **2022**, 7, 1-24	0
2	A Novel Attitude Feature Extraction Method for Multi-IMU Based Fall Detection System. **2023**,	0
1	Video analytic system for activity profiling, fall detection, and unstable motion detection.	0