Marjorie Skubic

List of Publications by Year in descending order

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136950 98798 5,307 120 32 67 citations h-index g-index papers 124 124 124 4126 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Novel clinically-relevant assessment of upper extremity movement using depth sensors. Topics in Stroke Rehabilitation, 2023, 30, 11-20.	1.9	4
2	Mechanism-Driven Modeling to Aid Non-invasive Monitoring of Cardiac Function via Ballistocardiography. Frontiers in Medical Technology, 2022, 4, 788264.	2.5	5
3	Non-invasive monitoring of vital signs for older adults using recliner chairs. Health and Technology, 2021, 11, 169-184.	3.6	8
4	Social practices of nurse care coordination using sensor technologies – Challenges with an alert system adoption in assisted living communities for older adults. International Journal of Nursing Sciences, 2021, 8, 289-297.	1.3	5
5	Non-Invasive Heart Rate Estimation From Ballistocardiograms Using Bidirectional LSTM Regression. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3396-3407.	6.3	8
6	Design Evolution of a Head-Worn Biofeedback System to Address Vestibular Balance Impairment. , 2021, , .		0
7	Prototype Hat as a Biofeedback System to Address Vestibular Balance Impairment. IFMBE Proceedings, 2021, , 984-993.	0.3	0
8	Leveraging Unsupervised Machine Learning to Discover Patterns in Linguistic Health Summaries for Eldercare., 2021, 2021, 2180-2185.		3
9	Combining Physiology-Based Modeling and Evolutionary Algorithms for Personalized, Noninvasive Cardiovascular Assessment Based on Electrocardiography and Ballistocardiography. Frontiers in Physiology, 2021, 12, 739035.	2.8	6
10	Tracking personalized functional health in older adults using geriatric assessments. BMC Medical Informatics and Decision Making, 2020, 20, 270.	3.0	7
11	Human-centered approaches that integrate sensor technology across the lifespan: Opportunities and challenges. Nursing Outlook, 2020, 68, 734-744.	2.6	4
12	Associations Between Self-Reported Symptoms and Gait Parameters Using In-Home Sensors in Persons With Multiple Sclerosis. Rehabilitation Nursing, 2020, 45, 80-87.	0.5	5
13	Integrating Voice-Assisted Technology with an In-Home Sensor System. , 2020, , .		1
14	Non-Invasive In-Home Sleep Stage Classification Using a Ballistocardiography Bed Sensor. , 2019, , .		15
15	Cardiovascular Function and Ballistocardiogram: A Relationship Interpreted via Mathematical Modeling. IEEE Transactions on Biomedical Engineering, 2019, 66, 2906-2917.	4.2	41
16	VicoVR-Based Wireless Daily Activity Recognition and Assessment System for Stroke Rehabilitation. , 2018, , .		8
17	A Novel Depth Image Analysis Method to Calculate the Anterior Reach of the Modified Star Excursion Balance Test. , 2018, , .		O
18	Radar placement for fall detection: SignatureÂand performance. Journal of Ambient Intelligence and Smart Environments, 2018, 10, 21-34.	1.4	6

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19	Multiple Instance Dictionary Learning for Beat-to-Beat Heart Rate Monitoring From Ballistocardiograms. IEEE Transactions on Biomedical Engineering, 2018, 65, 2634-2648.	4.2	26
20	Validation of a Kinect V2 based rehabilitation game. PLoS ONE, 2018, 13, e0202338.	2.5	49
21	Exploratory analysis of older adults' sedentary behavior in the primary living area using kinect depth data. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 163-179.	1.4	9
22	Estimation of human walking speed by Doppler radar for elderly care. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 181-191.	1.4	12
23	Comparison of 3D Joint Angles Measured With the Kinect 2.0 Skeletal Tracker Versus a Marker-Based Motion Capture System. Journal of Applied Biomechanics, 2017, 33, 176-181.	0.8	41
24	Heart rate monitoring using hydraulic bed sensor ballistocardiogram1. Journal of Ambient Intelligence and Smart Environments, 2017, 9, 193-207.	1.4	29
25	Angel-Echo: A Personalized Health Care Application. , 2017, , .		8
26	Development and Validation of a Portable and Inexpensive Tool to Measure the Drop Vertical Jump Using the Microsoft Kinect V2. Sports Health, 2017, 9, 537-544.	2.7	29
27	Randomized Trial of Intelligent Sensor System for Early Illness Alerts in Senior Housing. Journal of the American Medical Directors Association, 2017, 18, 860-870.	2.5	50
28	Older Adults' Perceptions of and Preferences for a Fall Risk Assessment System. CIN - Computers Informatics Nursing, 2017, 35, 331-337.	0.5	4
29	Continuous In-Home Symptom and Mobility Measures for Individuals With Multiple Sclerosis: A Case Presentation. Journal of Neuroscience Nursing, 2017, 49, 241-246.	1.1	1
30	Toward an ElderCare Living Lab for Sensor-Based Health Assessment and Physical Therapy. IEEE Cloud Computing, 2017, 4, 30-39.	3.9	5
31	Using Embedded Sensors in Independent Living to Predict Gait Changes and Falls. Western Journal of Nursing Research, 2017, 39, 78-94.	1.4	39
32	Exploring clinical correlations in centroid-based gait metrics from depth data collected in the home. , $2017, \dots$		0
33	Assistive Adjustable Smart Shower System. , 2017, , .		2
34	TigerPlace., 2017,, 643-657.		0
35	An automatic in-home fall detection system using Doppler radar signatures. Journal of Ambient Intelligence and Smart Environments, 2016, 8, 453-466.	1.4	19
36	Heart beat characterization from ballistocardiogram signals using extended functions of multiple instances., 2016, 2016, 756-760.		14

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37	Exploring the feasibility and acceptability of sensor monitoring of gait and falls in the homes of persons with multiple sclerosis. Gait and Posture, 2016, 49, 277-282.	1.4	17
38	Evaluation of the microsoft kinect skeletal versus depth data analysis for timed-up and go and figure of 8 walk tests., 2016, 2016, 2274-2277.		8
39	Testing non-wearable fall detection methods in the homes of older adults. , 2016, 2016, 557-560.		24
40	Synchronous Big Data analytics for personalized and remote physical therapy. Pervasive and Mobile Computing, 2016, 28, 3-20.	3.3	26
41	Enhanced registered nurse care coordination with sensor technology: Impact on length of stay and cost in aging inÂplaceÂhousing. Nursing Outlook, 2015, 63, 650-655.	2.6	35
42	Automated In-Home Fall Risk Assessment and Detection Sensor System for Elders. Gerontologist, The, 2015, 55, S78-S87.	3.9	68
43	Robust heartbeat detection from in-home ballistocardiogram signals of older adults using a bed sensor., 2015, 2015, 7175-9.		45
44	Development and preliminary validation of an interactive remote physical therapy system., 2015, 2015, 190-3.		18
45	A New Paradigm of Technology-Enabled †Vital Signs' for Early Detection of Health Change for Older Adults. Gerontology, 2015, 61, 281-290.	2.8	67
46	Living Labs for Pervasive Healthcare Research. IEEE Pervasive Computing, 2015, 14, 86-89.	1.3	13
47	Automated Health Alerts Using In-Home Sensor Data for Embedded Health Assessment. IEEE Journal of Translational Engineering in Health and Medicine, 2015, 3, 1-11.	3.7	84
48	Recognizing complex instrumental activities of daily living using scene information and fuzzy logic. Computer Vision and Image Understanding, 2015, 140, 68-82.	4.7	32
49	Doppler Radar Fall Activity Detection Using the Wavelet Transform. IEEE Transactions on Biomedical Engineering, 2015, 62, 865-875.	4.2	193
50	Fall Detection in Homes of Older Adults Using the Microsoft Kinect. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 290-301.	6.3	468
51	Average in-home gait speed: Investigation of a new metric for mobility and fall risk assessment of elders. Gait and Posture, 2015, 41, 57-62.	1.4	176
52	A framework for harmonizing sensor data to support embedded health assessment., 2014, 2014, 1747-51.		5
53	Strategies for Humanâ€Driven Robot Comprehension of Spatial Descriptions by Older Adults in a Robot Fetch Task. Topics in Cognitive Science, 2014, 6, 513-533.	1.9	10
54	A Theoretical study on the placement of microphone arrays for improving the localization accuracy of a fall., 2014, 2014, 4523-6.		0

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55	Nighttime Restfulness During Daytime Dance Therapy. Western Journal of Nursing Research, 2014, 36, 362-373.	1.4	5
56	Day or Night Activity Recognition From Video Using Fuzzy Clustering Techniques. IEEE Transactions on Fuzzy Systems, 2014, 22, 483-493.	9.8	82
57	Sit-to-Stand Measurement for In-Home Monitoring Using Voxel Analysis. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1502-1509.	6.3	11
58	Quantitative Gait Measurement With Pulse-Doppler Radar for Passive In-Home Gait Assessment. IEEE Transactions on Biomedical Engineering, 2014, 61, 2434-2443.	4.2	74
59	Automated Fall Detection With Quality Improvement "Rewind―to Reduce Falls in Hospital Rooms. Journal of Gerontological Nursing, 2014, 40, 13-17.	0.6	30
60	A Memetic Algorithm for Matching Spatial Configurations With the Histograms of Forces. IEEE Transactions on Evolutionary Computation, 2013, 17, 588-604.	10.0	22
61	Toward a Passive Low-Cost In-Home Gait Assessment System for Older Adults. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 346-355.	6.3	169
62	Sensor Technology to Support Aging in Place. Journal of the American Medical Directors Association, 2013, 14, 386-391.	2.5	100
63	Unobtrusive, Continuous, In-Home Gait Measurement Using the Microsoft Kinect. IEEE Transactions on Biomedical Engineering, 2013, 60, 2925-2932.	4.2	156
64	Detecting foreground disambiguation of depth images using fuzzy logic., 2013,,.		3
65	Evaluation of Health Alerts From an Early Illness Warning System in Independent Living. CIN - Computers Informatics Nursing, 2013, 31, 274-280.	0.5	21
66	In-Home Fall Risk Assessment and Detection Sensor System. Journal of Gerontological Nursing, 2013, 39, 18-22.	0.6	45
67	Doppler radar sensor positioning in a fall detection system. , 2012, 2012, 256-9.		10
68	Activity Density Map Visualization and Dissimilarity Comparison for Eldercare Monitoring. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 607-614.	3.2	65
69	Fall detection using doppler radar and classifier fusion. , 2012, , .		10
70	Heartbeat detection from a hydraulic bed sensor using a clustering approach., 2012, 2012, 2383-7.		48
71	Automated Technology to Speed Recognition of Signs of Illness in Older Adults. Journal of Gerontological Nursing, 2012, 38, 18-23.	0.6	69
72	Using passive sensing to estimate relative energy expenditure for eldercare monitoring, , 2011 , , $642-648$.		5

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73	An eldercare electronic health record system for predictive health assessment., 2011,,.		10
74	Using sensor networks to detect urinary tract infections in older adults. , 2011, , .		43
75	Silhouette classification using pixel and voxel features for improved elder monitoring in dynamic environments., 2011,,.		13
76	Refinement and evaluation of a hydraulic bed sensor., 2011, 2011, 4356-60.		18
77	Evaluation of an Inexpensive Depth Camera for Passive In-Home Fall Risk Assessment., 2011,,.		74
78	Evaluation of an inexpensive depth camera for in-home gait assessment. Journal of Ambient Intelligence and Smart Environments, 2011, 3, 349-361.	1.4	120
79	Evolution of an Early Illness Warning System to Monitor Frail Elders in Independent Living. Journal of Healthcare Engineering, 2011, 2, 337-364.	1.9	25
80	Object set matching with an evolutionary algorithm., 2011,,.		2
81	Quantitative analysis of 180 degree turns for fall risk assessment using video sensors. , $2011, 2011, 7606$ -9.		9
82	Nighttime in-home action monitoring for eldercare. , 2011, 2011, 5299-302.		6
83	Gait characterization via pulse-Doppler radar. , 2011, , .		31
84	Passive Sensor Technology Interface to Assess Elder Activity in Independent Living. Nursing Research, 2011, 60, 318-325.	1.7	34
85	Improving Nurse Care Coordination With Technology. CIN - Computers Informatics Nursing, 2010, 28, 325-332.	0.5	35
86	Dance-Based Therapy in a Program of All-inclusive Care for the Elderly. Nursing Administration Quarterly, 2010, 34, 156-161.	1.5	32
87	Body sway measurement for fall risk assessment using inexpensive webcams. , 2010, 2010, 2225-9.		24
88	A modified genetic algorithm for matching building sets with the histograms of forces. , 2010, , .		3
89	Monitoring pulse and respiration with a non-invasive hydraulic bed sensor., 2010, 2010, 2119-23.		42
90	Extracting footfalls from voxel data. , 2010, 2010, 1119-22.		16

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91	Developing a Comprehensive Electronic Health Record to Enhance Nursing Care Coordination, Use of Technology, and Research. Journal of Gerontological Nursing, 2010, 36, 13-17.	0.6	25
92	Reports of the AAAI 2008 Fall Symposia. Al Magazine, 2009, 30, 106.	1.6	0
93	Modeling Human Activity From Voxel Person Using Fuzzy Logic. IEEE Transactions on Fuzzy Systems, 2009, 17, 39-49.	9.8	94
94	Contour tracking of human exercises. , 2009, , .		11
95	Older adults' privacy considerations for vision based recognition methods of eldercare applications. Technology and Health Care, 2009, 17, 41-48.	1.2	96
96	A smart home application to eldercare: Current status and lessons learned. Technology and Health Care, 2009, 17, 183-201.	1.2	195
97	Linguistic summarization of video for fall detection using voxel person and fuzzy logic. Computer Vision and Image Understanding, 2009, 113, 80-89.	4.7	202
98	Fuzzy contour tracking of human silhouettes. , 2009, , .		2
99	Senior residents' perceived need of and preferences for "smart home―sensor technologies. International Journal of Technology Assessment in Health Care, 2008, 24, 120-124.	0.5	271
100	Modeling Fuzziness Measures for Best Wavelet Selection. IEEE Transactions on Fuzzy Systems, 2008, 16, 1259-1270.	9.8	7
101	Adaptive temporal difference learning of spatial memory in the water maze task. , 2008, , .		4
102	TigerPlace, A State-Academic-Private Project to Revolutionize Traditional Long-Term Care. Journal of Housing for the Elderly, 2008, 22, 66-85.	0.7	46
103	Falls, Technology, and Stunt Actors. Journal of Nursing Care Quality, 2008, 23, 195-201.	0.9	17
104	Findings from a participatory evaluation of a smart home application for older adults. Technology and Health Care, 2008, 16, 111-118.	1.2	129
105	Sensor Systems for Monitoring Functional Status in Assisted Living Facility Residents. Research in Gerontological Nursing, 2008, 1, 238-244.	0.6	21
106	Findings from a participatory evaluation of a smart home application for older adults. Technology and Health Care, 2008, 16, 111-8.	1.2	32
107	Scene Matching between a Map and a Hand Drawn Sketch Using Spatial Relations. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	12
108	A Robot in a Water Maze: Learning a Spatial Memory Task. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	4

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109	Using a hand-drawn sketch to control a team of robots. Autonomous Robots, 2007, 22, 399-410.	4.8	38
110	Adaptive Silouette Extraction and Human Tracking in Complex and Dynamic Environments. , 2006, , .		16
111	Recognizing Falls from Silhouettes. , 2006, 2006, 6388-91.		122
112	Technology for Successful Aging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
113	Recognizing Falls from Silhouettes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	13
114	Qualitative spatial referencing for natural human-robot interfaces. Interactions, 2005, 12, 27-30.	1.0	1
115	COLLABORATING WITH HUMANOID ROBOTS IN SPACE. International Journal of Humanoid Robotics, 2005, 02, 181-201.	1.1	9
116	A technology and nursing collaboration to help older adults age in place. Nursing Outlook, 2005, 53, 40-45.	2.6	143
117	Older adults' attitudes towards and perceptions of â€~smart home' technologies: a pilot study. Informatics for Health and Social Care, 2004, 29, 87-94.	1.0	490
118	Title is missing!. Autonomous Robots, 2003, 14, 51-69.	4.8	38
119	Detection of lameness and determination of the affected forelimb in horses by use of continuous wavelet transformation and neural network classification of kinematic data. American Journal of Veterinary Research, 2003, 64, 1376-1381.	0.6	31
120	A system for automated acquisition of digital flexion using a 3-D camera and custom gantry. Hand Therapy, 0, , 175899832211109.	1.4	0