

# Mitja LuÅ;trek

## List of Publications by Year in descending order

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Version: 2024-02-01

110  
papers

2,303  
citations

331259

21  
h-index

276539

41  
g-index

116  
all docs

116  
docs citations

116  
times ranked

2425  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring stress with a wrist device using context. Journal of Biomedical Informatics, 2017, 73, 159-170.	2.5	228
2	Blood Pressure Estimation from Photoplethysmogram Using a Spectro-Temporal Deep Neural Network. Sensors, 2019, 19, 3420.	2.1	200
3	A Survey on Energy Expenditure Estimation Using Wearable Devices. ACM Computing Surveys, 2021, 53, 1-35.	16.1	182
4	Continuous stress detection using a wrist device. , 2016, , .		131
5	An Agent-Based Approach to Care in Independent Living. Lecture Notes in Computer Science, 2010, , 177-186.	1.0	99
6	How Accurately Can Your Wrist Device Recognize Daily Activities and Detect Falls?. Sensors, 2016, 16, 800.	2.1	95
7	Classical and deep learning methods for recognizing human activities and modes of transportation with smartphone sensors. Information Fusion, 2020, 62, 47-62.	11.7	62
8	Real-time activity monitoring with a wristband and a smartphone. Information Fusion, 2018, 43, 77-93.	11.7	59
9	Machine Learning and End-to-End Deep Learning for Monitoring Driver Distractions From Physiological and Visual Signals. IEEE Access, 2020, 8, 70590-70603.	2.6	47
10	Machine Learning Prediction Models for Chronic Kidney Disease Using National Health Insurance Claim Data in Taiwan. Healthcare (Switzerland), 2021, 9, 546.	1.0	47
11	What makes classification trees comprehensible?. Expert Systems With Applications, 2016, 62, 333-346.	4.4	43
12	Context-based ensemble method for human energy expenditure estimation. Applied Soft Computing Journal, 2015, 37, 960-970.	4.1	42
13	Datasets for Cognitive Load Inference Using Wearable Sensors and Psychological Traits. Applied Sciences (Switzerland), 2020, 10, 3843.	1.3	42
14	Circular RNAs in the cardiovascular system. Non-coding RNA Research, 2018, 3, 1-11.	2.4	36
15	Using machine learning models to predict the initiation of renal replacement therapy among chronic kidney disease patients. PLoS ONE, 2020, 15, e0233976.	1.1	35
16	Predicting species identity of bumblebees through analysis of flight buzzing sounds. Bioacoustics, 2017, 26, 63-76.	0.7	31
17	Title is missing!. Journal of Medical and Biological Engineering, 2013, 33, 406.	1.0	30
18	Competitive Live Evaluations of Activity-Recognition Systems. IEEE Pervasive Computing, 2015, 14, 70-77.	1.1	29

#	ARTICLE	IF	CITATIONS
19	Activity Recognition for Diabetic Patients Using a Smartphone. <i>Journal of Medical Systems</i> , 2016, 40, 256.	2.2	28
20	Tissue-based Alzheimer gene expression markersâ€“comparison of multiple machine learning approaches and investigation of redundancy in small biomarker sets. <i>BMC Bioinformatics</i> , 2012, 13, 266.	1.2	25
21	Telehealth using ECG sensor and accelerometer. , 2014, , .		23
22	Context-based fall detection and activity recognition using inertial and location sensors. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2014, 6, 419-433.	0.8	22
23	A Multi-Agent Care System to Support Independent Living. <i>International Journal on Artificial Intelligence Tools</i> , 2014, 23, 1440001.	0.7	22
24	Combining domain knowledge and machine learning for robust fall detection. <i>Expert Systems</i> , 2014, 31, 163-175.	2.9	22
25	Integrating Artificial and Human Intelligence into Tablet Production Process. <i>AAPS PharmSciTech</i> , 2014, 15, 1447-1453.	1.5	21
26	A New Frontier for Activity Recognition. , 2018, , .		21
27	Learning Biomarkers of Pluripotent Stem Cells in Mouse. <i>DNA Research</i> , 2011, 18, 233-251.	1.5	20
28	Estimating Energy Expenditure With Multiple Models Using Different Wearable Sensors. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 1081-1087.	3.9	20
29	Epitope Predictions Indicate the Presence of Two Distinct Types of Epitope-Antibody-Reactivities Determined by Epitope Profiling of Intravenous Immunoglobulins. <i>PLoS ONE</i> , 2013, 8, e78605.	1.1	20
30	A Personal Decision Support System for Heart Failure Management (HeartMan): study protocol of the HeartMan randomized controlled trial. <i>BMC Cardiovascular Disorders</i> , 2018, 18, 186.	0.7	19
31	A Personal Health System for Self-Management of Congestive Heart Failure (HeartMan): Development, Technical Evaluation, and Proof-of-Concept Randomized Controlled Trial. <i>JMIR Medical Informatics</i> , 2021, 9, e24501.	1.3	19
32	Context-Based Fall Detection Using Inertial and Location Sensors. <i>Lecture Notes in Computer Science</i> , 2012, , 1-16.	1.0	19
33	Mining telemonitored physiological data and patient-reported outcomes of congestive heart failure patients. <i>PLoS ONE</i> , 2018, 13, e0190323.	1.1	19
34	RAReFall &#x2014; Real-time activity recognition and fall detection system. , 2014, , .		18
35	When is it better not to look ahead?. <i>Artificial Intelligence</i> , 2010, 174, 1323-1338.	3.9	17
36	Fall Detection Using Location Sensors and Accelerometers. <i>IEEE Pervasive Computing</i> , 2015, 14, 72-79.	1.1	17

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37	Cardiovascular RNA markers and artificial intelligence may improve COVID-19 outcome: a position paper from the EU-CardioRNA COST Action CA17129. <i>Cardiovascular Research</i> , 2021, 117, 1823-1840.	1.8	17
38	Adapting activity recognition to a person with Multi-Classifer Adaptive Training. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2015, 7, 171-185.	0.8	16
39	e-Gibalec: Mobile application to monitor and encourage physical activity in schoolchildren. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2017, 9, 595-609.	0.8	16
40	Authentication of key aroma compounds in apple using stable isotope approach. <i>Food Chemistry</i> , 2019, 277, 766-773.	4.2	16
41	Protocol of the STress at Work (STRAW) Project: How to Disentangle Day-to-Day Occupational Stress among Academics Based on EMA, Physiological Data, and Smartphone Sensor and Usage Data. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8835.	1.2	16
42	Cognitive Load Monitoring With Wearablesâ€“Lessons Learned From a Machine Learning Challenge. <i>IEEE Access</i> , 2021, 9, 103325-103336.	2.6	16
43	The CrowdHEALTH project and the Hollistic Health Records: Collective Wisdom Driving Public Health Policies. <i>Acta Informatica Medica</i> , 2019, 27, 369.	0.5	16
44	Applying Multiple Knowledge to Sussex-Huawei Locomotion Challenge. , 2018, , .		14
45	Catalyzing Transcriptomics Research in Cardiovascular Disease: The CardioRNA COST Action CA17129. <i>Non-coding RNA</i> , 2019, 5, 31.	1.3	14
46	Cross-location transfer learning for the sussex-huawei locomotion recognition challenge. , 2019, , .		14
47	My Watch Says I'm Busy. , 2018, , .		13
48	Smartwatch-Based Eating Detection: Data Selection for Machine Learning from Imbalanced Data with Imperfect Labels. <i>Sensors</i> , 2021, 21, 1902.	2.1	13
49	Proof-of-concept trial results of the HeartMan mobile personal health system for self-management in congestive heart failure. <i>Scientific Reports</i> , 2021, 11, 5663.	1.6	13
50	Behavior Analysis Based on Coordinates of Body Tags. <i>Lecture Notes in Computer Science</i> , 2009, , 14-23.	1.0	13
51	Is real-valued minimax pathological?. <i>Artificial Intelligence</i> , 2006, 170, 620-642.	3.9	12
52	Energy expenditure estimation with wearable accelerometers. , 2012, , .		11
53	Recognising lifestyle activities of diabetic patients with a smartphone. , 2015, , .		11
54	Analyzing tennis game through sensor data with machine learning and multi-objective optimization. , 2017, , .		11

#	ARTICLE	IF	CITATIONS
55	Cross-dataset deep transfer learning for activity recognition. , 2019, , .		11
56	Demo abstract: Activity recognition and human energy expenditure estimation with a smartphone. , 2015, , .		10
57	Tackling the SHL challenge 2020 with person-specific classifiers and semi-supervised learning. , 2020, , .		10
58	A non invasive, wearable sensor platform for multi-parametric remote monitoring in CHF patients. Health and Technology, 2013, 3, 99-109.	2.1	9
59	Ensembles of multiple sensors for human energy expenditure estimation. , 2013, , .		9
60	HeartMan DSS: A decision support system for self-management of congestive heart failure. Expert Systems With Applications, 2021, 186, 115688.	4.4	9
61	Towards Human Energy Expenditure Estimation Using Smart Phone Inertial Sensors. Lecture Notes in Computer Science, 2013, , 94-108.	1.0	9
62	Wearable Sensors Data-Fusion and Machine-Learning Method for Fall Detection and Activity Recognition. Studies in Systems, Decision and Control, 2020, , 81-96.	0.8	9
63	Real-time physical activity and mental stress management with a wristband and a smartphone. , 2017, , .		8
64	Deep affect recognition from R-R intervals. , 2017, , .		8
65	Sources of Occupational Stress among Office Workersâ€™A Focus Group Study. International Journal of Environmental Research and Public Health, 2022, 19, 1075.	1.2	8
66	The pathology of heuristic search in the 8-puzzle. Journal of Experimental and Theoretical Artificial Intelligence, 2012, 24, 65-94.	1.8	7
67	Contact-Free Monitoring of Physiological Parameters in People With Profound Intellectual and Multiple Disabilities. , 2019, , .		7
68	Optimising an FFQ Using a Machine Learning Pipeline to Teach an Efficient Nutrient Intake Predictive Model. Nutrients, 2020, 12, 3789.	1.7	7
69	Derivation of an interaction/regulation network describing pluripotency in human. Gene, 2012, 502, 99-107.	1.0	6
70	Anticipatory system for T-H-C dynamics in room with real and virtual sensors. , 2016, , .		6
71	Using Markov Chains and Multi-Objective Optimization for Energy-Efficient Context Recognition. Sensors, 2018, 18, 80.	2.1	5
72	A Non Invasive, Wearable Sensor Platform for Multi-parametric Remote Monitoring in CHF Patients. Lecture Notes in Computer Science, 2012, , 140-147.	1.0	5

#	ARTICLE	IF	CITATIONS
73	Training a Genre Classifier for Automatic Classification of Web Pages. Journal of Computing and Information Technology, 2007, 15, 305.	0.2	5
74	Interoperability Techniques in CrowdHEALTH project: The Terminology Service. Acta Informatica Medica, 2019, 27, 355.	0.5	5
75	CrowdHEALTH: Holistic Health Records and Big Data Analytics for Health Policy Making and Personalized Health. Studies in Health Technology and Informatics, 2017, 238, 19-23.	0.2	5
76	Recognition of high-level activities with a smartphone. , 2015, , .		4
77	Mobile Application to Stimulate Physical Activity in Schoolchildren. , 2016, , .		4
78	Management of Physical, Mental and Environmental Stress at the Workplace. , 2017, , .		4
79	Toward Cognitive Load Inference for Attention Management in Ubiquitous Systems. IEEE Pervasive Computing, 2020, 19, 35-45.	1.1	4
80	Learning comprehensible and accurate hybrid trees. Expert Systems With Applications, 2021, 164, 113980.	4.4	4
81	Participantsâ€™ Experience and Adherence in Repeated Measurement Studies Among Office-Based Workers. , 2021, , .		4
82	Mobile nutrition monitoring for well-being. , 2019, , .		4
83	CrowdHEALTH: Big Data Analytics and Holistic Health Records. Studies in Health Technology and Informatics, 2019, 258, 255-256.	0.2	4
84	An intelligent system to improve T-H-C parameters at the workplace. , 2016, , .		3
85	An intelligent system to monitor refrigeration devices. Expert Systems, 2017, 34, e12199.	2.9	3
86	Blood Pressure Estimation with a Wristband Optical Sensor. , 2018, , .		3
87	Classification of Hemodynamics Scenarios from a Public Radar Dataset Using a Deep Learning Approach. Sensors, 2021, 21, 1836.	2.1	3
88	Multi-Classifer Adaptive Training: Specialising an Activity Recognition Classifier Using Semi-supervised Learning. Lecture Notes in Computer Science, 2012, , 193-207.	1.0	3
89	What Actually Works for Activity Recognition in Scenarios with Significant Domain Shift: Lessons Learned from the 2019 and 2020 Sussex-Huawei Challenges. Sensors, 2022, 22, 3613.	2.1	3
90	A PROGRAM FOR PLAYING TAROK. ICGA Journal, 2003, 26, 190-197.	0.2	2

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91	A computational method for designing diverse linear epitopes including citrullinated peptides with desired binding affinities to intravenous immunoglobulin. BMC Bioinformatics, 2016, 17, 155.	1.2	2
92	Association of patient-reported outcomes and heart rate trends in heart failure: a report from the Chiron project. Scientific Reports, 2020, 10, 576.	1.6	2
93	A General Framework for Making Context-Recognition Systems More Energy Efficient. Sensors, 2021, 21, 766.	2.1	2
94	Machine Learning for Analyzing Non-Countermeasure Factors Affecting Early Spread of COVID-19. International Journal of Environmental Research and Public Health, 2021, 18, 6750.	1.2	2
95	Winning the Sussex-Huawei Locomotion-Transportation Recognition Challenge. Springer Series in Adaptive Environments, 2019, , 233-250.	0.3	2
96	On Applying Ambient Intelligence to Assist People with Profound Intellectual and Multiple Disabilities. Advances in Intelligent Systems and Computing, 2020, , 895-914.	0.5	2
97	Pathology in heuristic search. AI Communications, 2008, 21, 211-213.	0.8	1
98	Multi-Agent Architecture for Control of Heating and Cooling in a Residential Space. Computer Journal, 2015, 58, 1314-1329.	1.5	1
99	Energy-efficient data collection for context recognition. , 2017, , .		1
100	Choosing Duty-Cycle Parameters for Context Recognition. , 2018, , .		1
101	Multi-Task Ensemble Learning for Affect Recognition. , 2018, , .		1
102	Trade-off between Energy Consumption and Comfort Experience in Smart Buildings. Information Technology and Control, 2015, 44, 420-432.	1.1	1
103	Medical Expert Support Tool (MEST): A Person-Centric Approach for Healthcare Management. Lecture Notes in Computer Science, 2012, , 99-106.	1.0	1
104	Enhancing BMI-Based Student Clustering by Considering Fitness as Key Attribute. Lecture Notes in Computer Science, 2019, , 155-165.	1.0	1
105	CrowdHEALTH: An e-Health Big Data Driven Platform towards Public Health Policies. , 2020, , .		1
106	Independent-valued minimax: Pathological or beneficial?. Theoretical Computer Science, 2012, 422, 59-77.	0.5	0
107	Energy Expenditure Estimation DEMO Application. Lecture Notes in Computer Science, 2013, , 281-286.	1.0	0
108	Cost-Sensitive Trees for Energy-Efficient Context Recognition. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
109	Analysing Physiology of Interpersonal Conflicts Using a Wrist Device. Lecture Notes in Computer Science, 2018, , 162-167.	1.0	0
110	Constrained Multiobjective Optimization for the Design of Energy-Efficient Context Recognition Systems. Lecture Notes in Computer Science, 2020, , 308-320.	1.0	0