

Nabil I Alshurafa

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,904
citations

471509

17
h-index

477307

29
g-index

92
all docs

92
docs citations

92
times ranked

1802
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Validity of Mostly Unprocessed and Minimally Processed Food Items Differs Among Popular Commercial Nutrition Apps Compared with a Research Food Database. <i>Journal of the Academy of Nutrition and Dietetics</i> , 2022, 122, 825-832.e1.	0.8	3
2	Deep Learning in Human Activity Recognition with Wearable Sensors: A Review on Advances. <i>Sensors</i> , 2022, 22, 1476.	3.8	141
3	ActiveSense: A Novel Active Learning Framework for Human Activity Recognition. , 2022, , .		1
4	Impacts of Image Obfuscation on Fine-grained Activity Recognition in Egocentric Video. , 2022, , .		3
5	Opportunities in Designing HCI Tools for Lactation Consulting Professionals. , 2022, , .		1
6	Predicting the Next-Day Perceived and Physiological Stress of Pregnant Women by Using Machine Learning and Explainability: Algorithm Development and Validation. <i>JMIR MHealth and UHealth</i> , 2022, 10, e33850.	3.7	7
7	Understanding Self-Tracked Data from Bounded Situational Contexts. , 2022, , .		1
8	Moving the dial on prenatal stress mechanisms of neurodevelopmental vulnerability to mental health problems: A personalized prevention proof of concept. <i>Developmental Psychobiology</i> , 2021, 63, 622-640.	1.6	12
9	Development and feasibility of a Configurable Assessment Messaging Platform for Interventions (CAMPI).. <i>Families, Systems and Health</i> , 2021, 39, 19-28.	0.6	1
10	HeatSight: Wearable Low-power Omni Thermal Sensing. , 2021, , .		1
11	Association of number of bites and eating speed with energy intake: Wearable technology results under free-living conditions. <i>Appetite</i> , 2021, 167, 105653.	3.7	7
12	FaceBit. , 2021, 5, 1-44.		19
13	Panel: Evolving IoT Tech Enables Aging in Place. , 2020, , .		0
14	Sensor Self-Report Alignment (SSRA): Reducing Sun Exposure Assessment Error. , 2020, , .		0
15	Automatic, wearable-based, in-field eating detection approaches for public health research: a scoping review. <i>Npj Digital Medicine</i> , 2020, 3, 38.	10.9	64
16	NeckSense. , 2020, 4, 1-26.		47
17	Deep generative cross-modal on-body accelerometer data synthesis from videos. , 2020, , .		11
18	SyncWISE. , 2020, 4, 1-26.		8

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19	eHealth Practices in Cancer Survivors With BMI in Overweight or Obese Categories: Latent Class Analysis Study. <i>JMIR Cancer</i> , 2020, 6, e24137.	2.4	1
20	Towards Battery-Free Body Sensor Networks. , 2020, , .		1
21	Toward a precision behavioral medicine approach to addressing high-risk sun exposure: a qualitative analysis. <i>JAMIA Open</i> , 2019, 2, 547-553.	2.0	4
22	micro-Stress EMA. , 2019, 3, 1-22.		39
23	Six Month Abstinence Heterogeneity in the Best Quit Study. <i>Annals of Behavioral Medicine</i> , 2019, 53, 1032-1044.	2.9	0
24	Assessing recall of personal sun exposure by integrating UV dosimeter and self-reported data with a network flow framework. <i>PLoS ONE</i> , 2019, 14, e0225371.	2.5	10
25	To Mask or Not to Mask?. , 2019, 3, 1-29.		19
26	Counting Bites With Bits: Expert Workshop Addressing Calorie and Macronutrient Intake Monitoring. <i>Journal of Medical Internet Research</i> , 2019, 21, e14904.	4.3	19
27	Measuring fine-grained heart-rate using a flexible wearable sensor in the presence of noise. , 2018, , .		8
28	I sense overeating: Motif-based machine learning framework to detect overeating using wrist-worn sensing. <i>Information Fusion</i> , 2018, 41, 37-47.	19.1	34
29	Predicting Perceived Stress Through Mirco-EMAs and a Flexible Wearable ECG Device. , 2018, , .		3
30	HABits Necklace. , 2018, , .		5
31	Is More Always Better?. , 2018, 2, 1-26.		21
32	I Can't Be Myself. , 2018, 2, 1-40.		36
33	Estimating caloric intake in bedridden hospital patients with audio and neck-worn sensors. , 2018, , .		5
34	Daily Minutes of Unprotected Sun Exposure (MUSE) Inventory: Measure description and comparisons to UVR sensor and sun protection survey data. <i>Preventive Medicine Reports</i> , 2018, 11, 305-311.	1.8	11
35	Remote Health Monitoring Outcome Success Prediction Using Baseline and First Month Intervention Data. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017, 21, 507-514.	6.3	38
36	Dynamic Computation Offloading for Low-Power Wearable Health Monitoring Systems. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 621-628.	4.2	43

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37	A Survey of Diet Monitoring Technology. IEEE Pervasive Computing, 2017, 16, 57-65.	1.3	46
38	Investigating barriers and facilitators to wearable adherence in fine-grained eating detection. , 2017, , .		10
39	UStress: Understanding college student subjective stress using wrist-based passive sensing. , 2017, , .		44
40	SwallowNet: Recurrent neural network detects and characterizes eating patterns. , 2017, , .		10
41	First Steps Into the Brave New Transdiscipline of Mobile Health. JAMA Cardiology, 2017, 2, 76.	6.1	5
42	When generalized eating detection machine learning models fail in the field. , 2017, , .		18
43	Intuito. , 2017, , .		0
44	WillSense. , 2017, , .		11
45	Distinguishing Nigerian Food Items and Calorie Content with Hyperspectral Imaging. Lecture Notes in Computer Science, 2017, , 462-470.	1.3	0
46	Personalized Medicine in the Wearable Era. , 2017, , .		1
47	Wearable Food Intake Monitoring Technologies: A Comprehensive Review. Computers, 2017, 6, 4.	3.3	114
48	Analyzing the Mutation Frequencies and Correlation of Genetic Diseases in Worldwide Populations Using Big Data Processing, Clustering, and Predictive Analytics. , 2017, , .		0
49	Why Do We Need a Remote Health Monitoring System? A Study on Predictive Analytics for Heart Failure Patients. , 2017, , .		8
50	Food Watch: Detecting and Characterizing Eating Episodes through Feeding Gestures. , 2017, , .		10
51	SmartNecklace: Designing a Wearable Multi-sensor System for Smart Eating Detection. , 2017, , .		0
52	A Robust Remote Health Monitoring and Data Processing System for Rural Area with Limited Internet Access. , 2017, , .		2
53	An Iterative Dimensionality-Scaling System for Real-Time Health Monitoring Applications. , 2016, , .		0
54	A wearable sensor system for medication adherence prediction. Artificial Intelligence in Medicine, 2016, 69, 43-52.	6.5	50

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55	Probabilistic segmentation of time-series audio signals using Support Vector Machines. <i>Microprocessors and Microsystems</i> , 2016, 46, 96-104.	2.8	7
56	Detection of Gestures Associated With Medication Adherence Using Smartwatch-Based Inertial Sensors. <i>IEEE Sensors Journal</i> , 2016, 16, 1054-1061.	4.7	39
57	A comparison of piezoelectric-based inertial sensing and audio-based detection of swallows. <i>Obesity Medicine</i> , 2016, 1, 6-14.	0.9	14
58	Effects of coaching on adherence in remote health monitoring systems. , 2015, , .		2
59	An automated framework for predicting obstructive sleep apnea using a brief, daytime, non-intrusive test procedure. , 2015, , .		4
60	A data-driven feature extraction framework for predicting the severity of condition of congestive heart failure patients. , 2015, 2015, 2534-7.		6
61	Improving Compliance in Remote Healthcare Systems Through Smartphone Battery Optimization. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 57-63.	6.3	28
62	Monitoring eating habits using a piezoelectric sensor-based necklace. <i>Computers in Biology and Medicine</i> , 2015, 58, 46-55.	7.0	131
63	Recognition of Nutrition Intake Using Time-Frequency Decomposition in a Wearable Necklace Using a Piezoelectric Sensor. <i>IEEE Sensors Journal</i> , 2015, 15, 3909-3916.	4.7	81
64	A smartwatch-based medication adherence system. , 2015, , .		35
65	Non-invasive detection of medication adherence using a digital smart necklace. , 2015, , .		19
66	Power optimization for wearable devices. , 2015, , .		6
67	BreathSens: A Continuous On-Bed Respiratory Monitoring System With Torso Localization Using an Unobtrusive Pressure Sensing Array. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015, 19, 1682-1688.	6.3	39
68	Anti-Cheating: Detecting Self-Inflicted and Impersonator Cheaters for Remote Health Monitoring Systems with Wearable Sensors. , 2014, , .		20
69	Remote health monitoring: Predicting outcome success based on contextual features for cardiovascular disease. , 2014, 2014, 1777-81.		11
70	Support vector regression to estimate the metabolic equivalent of task of exergaming actions. , 2014, , .		1
71	Spectrogram-based audio classification of nutrition intake. , 2014, , .		15
72	Non-invasive monitoring of eating behavior using spectrogram analysis in a wearable necklace. , 2014, , .		18

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73	Designing a Robust Activity Recognition Framework for Health and Exergaming Using Wearable Sensors. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1636-1646.	6.3	85
74	A Framework for Predicting Adherence in Remote Health Monitoring Systems. , 2014, , .		7
75	Multiple model analytics for adverse event prediction in remote health monitoring systems. , 2014, , .		14
76	Battery optimization in smartphones for remote health monitoring systems to enhance user adherence. , 2014, , .		15
77	Using Pressure Map Sequences for Recognition of On Bed Rehabilitation Exercises. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 411-418.	6.3	20
78	Using electronic health records to predict severity of condition for congestive heart failure patients. , 2014, , .		12
79	A Wearable Nutrition Monitoring System. , 2014, , .		59
80	Determining the Single Best Axis for Exercise Repetition Recognition and Counting on SmartWatches. , 2014, , .		43
81	Sleep posture analysis using a dense pressure sensitive bedsheet. Pervasive and Mobile Computing, 2014, 10, 34-50.	3.3	58
82	A dense pressure sensitive bedsheet design for unobtrusive sleep posture monitoring. , 2013, , .		66
83	Robust human intensity-varying activity recognition using Stochastic Approximation in wearable sensors. , 2013, , .		17
84	Improving accuracy in E-Textiles as a platform for pervasive sensing. , 2013, , .		2
85	On-bed monitoring for range of motion exercises with a pressure sensitive bedsheet. , 2013, , .		6
86	Inconspicuous on-bed respiratory rate monitoring. , 2013, , .		15
87	WANDA. , 2012, , .		46
88	Opportunistic hierarchical classification for power optimization in wearable movement monitoring systems. , 2012, , .		4
89	Dynamic Task Optimization in Remote Diabetes Monitoring Systems. , 2012, 2012, 3-11.		3
90	Artificial spider: eight-legged arachnid and autonomous learning of locomotion. , 2006, 6230, 481.		3