

Anton Kos

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/590975/publications.pdf>

Version: 2024-02-01

72
papers

989
citations

430754

18
h-index

477173

29
g-index

74
all docs

74
docs citations

74
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	An XGBoost-based physical fitness evaluation model using advanced feature selection and Bayesian hyper-parameter optimization for wearable running monitoring. <i>Computer Networks</i> , 2019, 151, 166-180.	3.2	95
2	Wearable Sensor Devices for Prevention and Rehabilitation in Healthcare: Swimming Exercise With Real-Time Therapist Feedback. <i>IEEE Internet of Things Journal</i> , 2019, 6, 1331-1341.	5.5	67
3	Challenges in wireless communication for connected sensors and wearable devices used in sport biofeedback applications. <i>Future Generation Computer Systems</i> , 2019, 92, 582-592.	4.9	60
4	Sport Biomechanics Applications Using Inertial, Force, and EMG Sensors: A Literature Overview. <i>Applied Bionics and Biomechanics</i> , 2020, 2020, 1-18.	0.5	60
5	A sensor-based wrist pulse signal processing and lung cancer recognition. <i>Journal of Biomedical Informatics</i> , 2018, 79, 107-116.	2.5	53
6	Evaluation of Smartphone Inertial Sensor Performance for Cross-Platform Mobile Applications. <i>Sensors</i> , 2016, 16, 477.	2.1	51
7	Clustering by fast search and merge of local density peaks for gene expression microarray data. <i>Scientific Reports</i> , 2017, 7, 45602.	1.6	48
8	A Pulse Rate Estimation Algorithm Using PPG and Smartphone Camera. <i>Journal of Medical Systems</i> , 2016, 40, 126.	2.2	47
9	Suitability of Smartphone Inertial Sensors for Real-Time Biofeedback Applications. <i>Sensors</i> , 2016, 16, 301.	2.1	43
10	Wearable training system with real-time biofeedback and gesture user interface. <i>Personal and Ubiquitous Computing</i> , 2015, 19, 989-998.	1.9	36
11	Smart sport equipment: SmartSki prototype for biofeedback applications in skiing. <i>Personal and Ubiquitous Computing</i> , 2018, 22, 535-544.	1.9	31
12	New Benchmarking Methodology and Programming Model for Big Data Processing. <i>International Journal of Distributed Sensor Networks</i> , 2015, 11, 271752.	1.3	26
13	Suitability of Strain Gage Sensors for Integration into Smart Sport Equipment: A Golf Club Example. <i>Sensors</i> , 2017, 17, 916.	2.1	24
14	Wearable sensors and smart equipment for feedback in watersports. <i>Procedia Computer Science</i> , 2018, 129, 496-502.	1.2	24
15	Validation of smartphone gyroscopes for mobile biofeedback applications. <i>Personal and Ubiquitous Computing</i> , 2016, 20, 657-666.	1.9	23
16	Multi-sensor Golf Swing Classification Using Deep CNN. <i>Procedia Computer Science</i> , 2018, 129, 59-65.	1.2	23
17	Positioning Performance Assessment of Geodetic, Automotive, and Smartphone GNSS Receivers in Standardized Road Scenarios. <i>IEEE Access</i> , 2018, 6, 41410-41428.	2.6	21
18	Sorting Networks on Maxeler Dataflow Supercomputing Systems. <i>Advances in Computers</i> , 2015, 96, 139-186.	1.2	20

#	ARTICLE	IF	CITATIONS
19	The Role of High Performance Computing and Communication for Real-Time Biofeedback in Sport. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-11.	0.6	19
20	Golf swing classification with multiple deep convolutional neural networks. <i>International Journal of Distributed Sensor Networks</i> , 2018, 14, 155014771880218.	1.3	16
21	Review of Real-Time Biomechanical Feedback Systems in Sport and Rehabilitation. <i>Sensors</i> , 2022, 22, 3006.	2.1	16
22	The role of science and technology in sport. <i>Procedia Computer Science</i> , 2018, 129, 489-495.	1.2	15
23	The role of technology for accelerated motor learning in sport. <i>Personal and Ubiquitous Computing</i> , 2021, 25, 969-978.	1.9	13
24	Towards Real-Time Multi-Sensor Golf Swing Classification Using Deep CNNs. <i>Journal of Database Management</i> , 2018, 29, 17-42.	1.0	12
25	Biomechanical Biofeedback Systems and Applications. <i>Human-computer Interaction Series</i> , 2018, , .	0.4	11
26	SMART EQUIPMENT DESIGN CHALLENGES FOR REAL TIME FEEDBACK SUPPORT IN SPORT. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2018, 16, 389.	2.3	11
27	Sensor System for Precision Shooting Evaluation and Real-time Biofeedback. <i>Procedia Computer Science</i> , 2019, 147, 319-323.	1.2	8
28	Application for Impact Position Evaluation in Tennis Using UWB Localization. <i>Procedia Computer Science</i> , 2019, 147, 307-313.	1.2	8
29	Can IMU Provide an Accurate Vertical Jump Height Estimate?. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 12025.	1.3	8
30	Public Interest Analysis Based on Implicit Feedback of IPTV Users. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 2077-2086.	7.2	7
31	Identification and Selection of Sensors Suitable for Integration into Sport Equipment: Smart Golf Club. , 2016, , .		6
32	Metrical characteristics and the reliability of kinematic sensor devices applied in different modalities of reverse punch in karate athletes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 177, 109315.	2.5	6
33	Decentralized Machine Autonomy for Manufacturing Servitization. <i>Sensors</i> , 2022, 22, 338.	2.1	6
34	Autonomous Wearable Personal Training System with Real-Time Biofeedback and Gesture User Interface. , 2014, , .		5
35	Biofeedback in sport: Challenges in real-time motion tracking and processing. , 2015, , .		5
36	Use of IMU in Differential Analysis of the Reverse Punch Temporal Structure in Relation to the Achieved Maximal Hand Velocity. <i>Sensors</i> , 2021, 21, 4148.	2.1	5

#	ARTICLE	IF	CITATIONS
37	Fast file existence checking in archiving systems. ACM Transactions on Storage, 2011, 7, 1-21.	1.4	4
38	Strain Gage Sensor Based Golfer Identification Using Machine Learning Algorithms. Procedia Computer Science, 2018, 129, 135-140.	1.2	4
39	Validation of UWB positioning systems for player tracking in tennis. Personal and Ubiquitous Computing, 2022, 26, 1023-1033.	1.9	4
40	Sensor system for augmented feedback applications in volleyball. Procedia Computer Science, 2020, 174, 369-374.	1.2	4
41	Maximum force of hand grip in the function of precision and accuracy of shooting from the official CZ 99 handgun from: Generic models. Bezbednost Beograd, 2018, 60, 30-49.	0.2	4
42	Performance of the bitonic mergesort network on a Dataflow computer. , 2013, , .		3
43	Dynamic Modeling of Failure Events in Preventative Pipe Maintenance. IEEE Access, 2018, 6, 12539-12550.	2.6	3
44	Biomechanical Biofeedback. Human-computer Interaction Series, 2018, , 25-38.	0.4	3
45	The relationship of pistol movement measured by a kinematic sensor, shooting performance and handgrip strength. International Journal of Performance Analysis in Sport, 2020, 20, 1107-1119.	0.5	3
46	Sensor Based Agility Assessment in Sport. Procedia Computer Science, 2021, 187, 440-446.	1.2	3
47	Mathematical model of short distance pistol shooting performance in experienced shooters of both gender. Nauka Bezbednost Policija, 2019, 24, 3-13.	0.5	3
48	Big Data Processing: Data Flow vs Control Flow (New Benchmarking Methodology). , 2014, , .		2
49	Sensor selection scheme in activity recognition based on hierarchical feature reduction. International Journal of Distributed Sensor Networks, 2018, 14, 155014771879380.	1.3	2
50	Hierarchical Feature Reduction with Max Relevance and Low Dimensional Embedding Strategy and Its Application in Activity Recognition with Multi-sensors. Procedia Computer Science, 2018, 129, 284-290.	1.2	2
51	Performance Limitations of Biofeedback System Technologies. Human-computer Interaction Series, 2018, , 81-116.	0.4	2
52	Reliable Communication Protocol for Coach Based Augmented Biofeedback Applications in Swimming. Procedia Computer Science, 2020, 174, 351-357.	1.2	2
53	eEquilibrium: A Prototype of a Sensor-Based Balance Training and Monitoring System. Procedia Computer Science, 2020, 174, 340-346.	1.2	2
54	Development of a platform for sensor systems support in sport. Procedia Computer Science, 2022, 202, 360-366.	1.2	2

#	ARTICLE	IF	CITATIONS
55	Validation of Smartphone Gyroscopes for Angular Tracking in Biofeedback Applications. , 2015, , .		1
56	Privacy in the Internet of Things. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	0.8	1
57	Machine Learning based Accuracy Prediction Model for Augmented Biofeedback in Precision Shooting. Procedia Computer Science, 2020, 174, 358-363.	1.2	1
58	A Random Forest-Based Accuracy Prediction Model for Augmented Biofeedback in a Precision Shooting Training System. Sensors, 2020, 20, 4512.	2.1	1
59	COMPUTERIZED RADIAL ARTERY PULSE SIGNAL CLASSIFICATION FOR LUNG CANCER DETECTION. Facta Universitatis, Series: Mechanical Engineering, 2017, 15, 535.	2.3	1
60	Correctness of the Chord protocol. Computer Science and Information Systems, 2020, 17, 141-160.	0.7	1
61	Comparison of Smartphone Sensors Performance Using Participatory Sensing and Cloud Application. , 2015, , .		0
62	SmartSKI: Application of Sensors Integrated into Sport Equipment. , 2016, , .		0
63	Biomechanical Model for Detection of Vertigo Disease. , 2016, , .		0
64	Biofeedback Systems in Sport and Rehabilitation. Human-computer Interaction Series, 2018, , 61-79.	0.4	0
65	Validation of MEMS Accelerometer for Rapid Hand Movement Measurement. Procedia Computer Science, 2021, 187, 530-537.	1.2	0
66	Information, communication and computing technologies as enablers of advancements in modern information society. Personal and Ubiquitous Computing, 2021, 25, 957.	1.9	0
67	Involving Consumers in the Programmes of Consumption Adjustment by Using Dynamic Tariffing Within the European Project Flex4Grid. , 0, , .		0
68	Biofeedback System. Human-computer Interaction Series, 2018, , 39-47.	0.4	0
69	Biofeedback System Architectures. Human-computer Interaction Series, 2018, , 49-59.	0.4	0
70	Bitcoin Mining Using Maxeler DataFlow Computers. Computer Communications and Networks, 2019, , 241-311.	0.8	0
71	Grip Force Measurement System in Climbing. Procedia Computer Science, 2022, 202, 367-372.	1.2	0
72	Rethinking Golf Swing Classification: From A Frequency Domain View. Procedia Computer Science, 2022, 202, 252-259.	1.2	0