

Anton Umek

List of Publications by Year in descending order

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57
papers

675
citations

623574

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610775

24
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59
all docs

59
docs citations

59
times ranked

664
citing authors

#	ARTICLE	IF	CITATIONS
1	Wearable Sensor Devices for Prevention and Rehabilitation in Healthcare: Swimming Exercise With Real-Time Therapist Feedback. IEEE Internet of Things Journal, 2019, 6, 1331-1341.	5.5	67
2	Challenges in wireless communication for connected sensors and wearable devices used in sport biofeedback applications. Future Generation Computer Systems, 2019, 92, 582-592.	4.9	60
3	Sport Biomechanics Applications Using Inertial, Force, and EMG Sensors: A Literature Overview. Applied Bionics and Biomechanics, 2020, 2020, 1-18.	0.5	60
4	Evaluation of Smartphone Inertial Sensor Performance for Cross-Platform Mobile Applications. Sensors, 2016, 16, 477.	2.1	51
5	Suitability of Smartphone Inertial Sensors for Real-Time Biofeedback Applications. Sensors, 2016, 16, 301.	2.1	43
6	Wearable training system with real-time biofeedback and gesture user interface. Personal and Ubiquitous Computing, 2015, 19, 989-998.	1.9	36
7	Smart sport equipment: SmartSki prototype for biofeedback applications in skiing. Personal and Ubiquitous Computing, 2018, 22, 535-544.	1.9	31
8	Suitability of Strain Gage Sensors for Integration into Smart Sport Equipment: A Golf Club Example. Sensors, 2017, 17, 916.	2.1	24
9	Wearable sensors and smart equipment for feedback in watersports. Procedia Computer Science, 2018, 129, 496-502.	1.2	24
10	Validation of smartphone gyroscopes for mobile biofeedback applications. Personal and Ubiquitous Computing, 2016, 20, 657-666.	1.9	23
11	Multi-sensor Golf Swing Classification Using Deep CNN. Procedia Computer Science, 2018, 129, 59-65.	1.2	23
12	The Role of High Performance Computing and Communication for Real-Time Biofeedback in Sport. Mathematical Problems in Engineering, 2016, 2016, 1-11.	0.6	19
13	Golf swing classification with multiple deep convolutional neural networks. International Journal of Distributed Sensor Networks, 2018, 14, 155014771880218.	1.3	16
14	Review of Real-Time Biomechanical Feedback Systems in Sport and Rehabilitation. Sensors, 2022, 22, 3006.	2.1	16
15	The role of science and technology in sport. Procedia Computer Science, 2018, 129, 489-495.	1.2	15
16	Approaching the Communication Constraints of Ethereum-Based Decentralized Applications. Sensors, 2019, 19, 2647.	2.1	14
17	The role of technology for accelerated motor learning in sport. Personal and Ubiquitous Computing, 2021, 25, 969-978.	1.9	13
18	Towards Real-Time Multi-Sensor Golf Swing Classification Using Deep CNNs. Journal of Database Management, 2018, 29, 17-42.	1.0	12

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19	Biomechanical Biofeedback Systems and Applications. Human-computer Interaction Series, 2018, , .	0.4	11
20	SMART EQUIPMENT DESIGN CHALLENGES FOR REAL TIME FEEDBACK SUPPORT IN SPORT. Facta Universitatis, Series: Mechanical Engineering, 2018, 16, 389.	2.3	11
21	Potential of IMU-Based Systems in Measuring Single Rapid Movement Variables in Females with Different Training Backgrounds and Specialization. Applied Bionics and Biomechanics, 2020, 2020, 1-7.	0.5	10
22	Sensor System for Precision Shooting Evaluation and Real-time Biofeedback. Procedia Computer Science, 2019, 147, 319-323.	1.2	8
23	Application for Impact Position Evaluation in Tennis Using UWB Localization. Procedia Computer Science, 2019, 147, 307-313.	1.2	8
24	Can IMU Provide an Accurate Vertical Jump Height Estimate?. Applied Sciences (Switzerland), 2021, 11, 12025.	1.3	8
25	Identification and Selection of Sensors Suitable for Integration into Sport Equipment: Smart Golf Club. , 2016, , .		6
26	Metrical characteristics and the reliability of kinematic sensor devices applied in different modalities of reverse punch in karate athletes. Measurement: Journal of the International Measurement Confederation, 2021, 177, 109315.	2.5	6
27	Autonomous Wearable Personal Training System with Real-Time Biofeedback and Gesture User Interface. , 2014, , .		5
28	Biofeedback in sport: Challenges in real-time motion tracking and processing. , 2015, , .		5
29	Use of IMU in Differential Analysis of the Reverse Punch Temporal Structure in Relation to the Achieved Maximal Hand Velocity. Sensors, 2021, 21, 4148.	2.1	5
30	Strain Gage Sensor Based Golfer Identification Using Machine Learning Algorithms. Procedia Computer Science, 2018, 129, 135-140.	1.2	4
31	Validation of UWB positioning systems for player tracking in tennis. Personal and Ubiquitous Computing, 2022, 26, 1023-1033.	1.9	4
32	Sensor system for augmented feedback applications in volleyball. Procedia Computer Science, 2020, 174, 369-374.	1.2	4
33	Biomechanical Biofeedback. Human-computer Interaction Series, 2018, , 25-38.	0.4	3
34	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
35	Sensor Based Agility Assessment in Sport. Procedia Computer Science, 2021, 187, 440-446.	1.2	3
36	Mathematical model of short distance pistol shooting performance in experienced shooters of both gender. Nauka Bezbednost Policija, 2019, 24, 3-13.	0.5	3

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37	A simple formula for calculation of power loss in digital transmission lines. IEEE Transactions on Communications, 1992, 40, 484-486.	4.9	2
38	Sensor selection scheme in activity recognition based on hierarchical feature reduction. International Journal of Distributed Sensor Networks, 2018, 14, 155014771879380.	1.3	2
39	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
40	Performance Limitations of Biofeedback System Technologies. Human-computer Interaction Series, 2018, , 81-116.	0.4	2
41	Reliable Communication Protocol for Coach Based Augmented Biofeedback Applications in Swimming. Procedia Computer Science, 2020, 174, 351-357.	1.2	2
42	eEquilibrium: A Prototype of a Sensor-Based Balance Training and Monitoring System. Procedia Computer Science, 2020, 174, 340-346.	1.2	2
43	Development of a platform for sensor systems support in sport. Procedia Computer Science, 2022, 202, 360-366.	1.2	2
44	Validation of Smartphone Gyroscopes for Angular Tracking in Biofeedback Applications. , 2015, , .		1
45	Machine Learning based Accuracy Prediction Model for Augmented Biofeedback in Precision Shooting. Procedia Computer Science, 2020, 174, 358-363.	1.2	1
46	A Random Forest-Based Accuracy Prediction Model for Augmented Biofeedback in a Precision Shooting Training System. Sensors, 2020, 20, 4512.	2.1	1
47	COMPUTERIZED RADIAL ARTERY PULSE SIGNAL CLASSIFICATION FOR LUNG CANCER DETECTION. Facta Universitatis, Series: Mechanical Engineering, 2017, 15, 535.	2.3	1
48	Correctness of the Chord protocol. Computer Science and Information Systems, 2020, 17, 141-160.	0.7	1
49	Comparison of Smartphone Sensors Performance Using Participatory Sensing and Cloud Application. , 2015, , .		0
50	SmartSKI: Application of Sensors Integrated into Sport Equipment. , 2016, , .		0
51	Correctness of the Chord Protocol. , 2016, , .		0
52	Biofeedback Systems in Sport and Rehabilitation. Human-computer Interaction Series, 2018, , 61-79.	0.4	0
53	Validation of MEMS Accelerometer for Rapid Hand Movement Measurement. Procedia Computer Science, 2021, 187, 530-537.	1.2	0
54	Guest Editorial Introduction to the Special Section on Artificial Intelligence For Social Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 826-827.	4.1	0

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55	Biofeedback System. Human-computer Interaction Series, 2018, , 39-47.	0.4	0
56	Biofeedback System Architectures. Human-computer Interaction Series, 2018, , 49-59.	0.4	0
57	Grip Force Measurement System in Climbing. Procedia Computer Science, 2022, 202, 367-372.	1.2	0