

Robert Simon Sherratt

List of Publications by Year in descending order

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101
papers

3,363
citations

201575

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155592

55
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102
all docs

102
docs citations

102
times ranked

3688
citing authors

#	ARTICLE	IF	CITATIONS
1	Sentiment Analysis for E-Commerce Product Reviews in Chinese Based on Sentiment Lexicon and Deep Learning. IEEE Access, 2020, 8, 23522-23530.	2.6	270
2	Major requirements for building Smart Homes in Smart Cities based on Internet of Things technologies. Future Generation Computer Systems, 2017, 76, 358-369.	4.9	251
3	A Survey on Wireless Body Area Networks for eHealthcare Systems in Residential Environments. Sensors, 2016, 16, 831.	2.1	221
4	Developing residential wireless sensor networks for ECG healthcare monitoring. IEEE Transactions on Consumer Electronics, 2017, 63, 442-449.	3.0	213
5	An enhanced fall detection system for elderly person monitoring using consumer home networks. IEEE Transactions on Consumer Electronics, 2014, 60, 23-29.	3.0	210
6	Optimal Coverage Multi-Path Scheduling Scheme with Multiple Mobile Sinks for WSNs. Computers, Materials and Continua, 2020, 62, 695-711.	1.5	196
7	Enhanced three-factor security protocol for consumer USB mass storage devices. IEEE Transactions on Consumer Electronics, 2014, 60, 30-37.	3.0	169
8	An improved ant colony optimization-based approach with mobile sink for wireless sensor networks. Journal of Supercomputing, 2018, 74, 6633-6645.	2.4	151
9	Application of data fusion techniques and technologies for wearable health monitoring. Medical Engineering and Physics, 2017, 42, 1-12.	0.8	130
10	Bio-inspired ant colony optimization based clustering algorithm with mobile sinks for applications in consumer home automation networks. IEEE Transactions on Consumer Electronics, 2015, 61, 438-444.	3.0	72
11	Mobility based energy efficient and multi-sink algorithms for consumer home networks. IEEE Transactions on Consumer Electronics, 2013, 59, 77-84.	3.0	62
12	Wireless Capsule Gastrointestinal Endoscopy: Direction-of-Arrival Estimation Based Localization Survey. IEEE Reviews in Biomedical Engineering, 2017, 10, 2-11.	13.1	62
13	Identification of Suitable Biomarkers for Stress and Emotion Detection for Future Personal Affective Wearable Sensors. Biosensors, 2020, 10, 40.	2.3	62
14	Morphological Segmentation Analysis and Texture-based Support Vector Machines Classification on Mice Liver Fibrosis Microscopic Images. Current Bioinformatics, 2019, 14, 282-294.	0.7	56
15	Parameterized algorithms of fundamental NP-hard problems: a survey. Human-centric Computing and Information Sciences, 2020, 10, .	6.1	54
16	Pattern Mining Approaches Used in Sensor-Based Biometric Recognition: A Review. IEEE Sensors Journal, 2019, 19, 3569-3580.	2.4	53
17	A mobile assisted coverage hole patching scheme based on particle swarm optimization for WSNs. Cluster Computing, 2019, 22, 1787-1795.	3.5	52
18	Coverage of Emotion Recognition for Common Wearable Biosensors. Biosensors, 2018, 8, 30.	2.3	51

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19	Energy-aware distributed routing algorithm to tolerate network failure in wireless sensor networks. <i>Ad Hoc Networks</i> , 2017, 56, 158-172.	3.4	41
20	A Probability Preferred Priori Offloading Mechanism in Mobile Edge Computing. <i>IEEE Access</i> , 2020, 8, 39758-39767.	2.6	40
21	Real-Time Speech Emotion Analysis for Smart Home Assistants. <i>IEEE Transactions on Consumer Electronics</i> , 2021, 67, 68-76.	3.0	40
22	An Energy-Efficient Off-Loading Scheme for Low Latency in Collaborative Edge Computing. <i>IEEE Access</i> , 2019, 7, 149182-149190.	2.6	36
23	Mobile sink based fault diagnosis scheme for wireless sensor networks. <i>Journal of Systems and Software</i> , 2016, 119, 45-57.	3.3	34
24	On-demand fuzzy clustering and ant-colony optimisation based mobile data collection in wireless sensor network. <i>Wireless Networks</i> , 2019, 25, 1829-1845.	2.0	31
25	A software agent enabled biometric security algorithm for secure file access in consumer storage devices. <i>IEEE Transactions on Consumer Electronics</i> , 2017, 63, 53-61.	3.0	30
26	Detailed Examination of a Packet Collision Model for Bluetooth Low Energy Advertising Mode. <i>IEEE Access</i> , 2018, 6, 46066-46073.	2.6	29
27	TLS/PKI Challenges and Certificate Pinning Techniques for IoT and M2M Secure Communications. <i>IEEE Communications Surveys and Tutorials</i> , 2019, 21, 3502-3531.	24.8	29
28	Enhancing Pharmaceutical Packaging through a Technology Ecosystem to Facilitate the Reuse of Medicines and Reduce Medicinal Waste. <i>Pharmacy (Basel, Switzerland)</i> , 2020, 8, 58.	0.6	28
29	Directing and Orienting ICT Healthcare Solutions to Address the Needs of the Aging Population. <i>Healthcare (Switzerland)</i> , 2021, 9, 147.	1.0	28
30	Efficient biometric and password based mutual authentication for consumer USB mass storage devices. <i>IEEE Transactions on Consumer Electronics</i> , 2015, 61, 491-499.	3.0	27
31	Reconstruction of Angular Kinematics From Wrist-Worn Inertial Sensor Data for Smart Home Healthcare. <i>IEEE Access</i> , 2017, 5, 2351-2363.	2.6	27
32	Numerical precision requirements on the multiband ultrawideband system for practical consumer electronic devices. <i>IEEE Transactions on Consumer Electronics</i> , 2005, 51, 386-392.	3.0	24
33	Designing Wearable Sensing Platforms for Healthcare in a Residential Environment. <i>EAI Endorsed Transactions on Pervasive Health and Technology</i> , 2017, 3, 153063.	0.7	24
34	Case-Based Reasoning for Product Style Construction and Fuzzy Analytic Hierarchy Process Evaluation Modeling Using Consumers Linguistic Variables. <i>IEEE Access</i> , 2017, 5, 4900-4912.	2.6	23
35	Discrete wavelet transform-based freezing of gait detection in Parkinson's disease. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2021, 33, 543-559.	1.8	23
36	Obstacle avoidance routing scheme through optimal sink movement for home monitoring and mobile robotic consumer devices. <i>IEEE Transactions on Consumer Electronics</i> , 2014, 60, 596-604.	3.0	20

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37	Towards disappearing user interfaces for ubiquitous computing: human enhancement from sixth sense to super senses. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2017, 8, 449-465.	3.3	20
38	Enabling Medicine Reuse Using a Digital Time Temperature Humidity Sensor in an Internet of Pharmaceutical Things Concept. <i>Sensors</i> , 2020, 20, 3080.	2.1	20
39	Multi-modal classifier fusion with feature cooperation for glaucoma diagnosis. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2019, 31, 841-874.	1.8	19
40	Signal Quality and Compactness of a Dual-Accelerometer System for Gyro-Free Human Motion Analysis. <i>IEEE Sensors Journal</i> , 2016, 16, 6261-6269.	2.4	18
41	A novel and efficient session spanning biometric and password based three-factor authentication protocol for consumer USB Mass Storage Devices. <i>IEEE Transactions on Consumer Electronics</i> , 2016, 62, 283-291.	3.0	18
42	Plantar pressure image fusion for comfort fusion in diabetes mellitus using an improved fuzzy hidden Markov model. <i>Biocybernetics and Biomedical Engineering</i> , 2019, 39, 742-752.	3.3	18
43	Recognize basic emotional states in speech by machine learning techniques using mel-frequency cepstral coefficient features. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 39, 1925-1936.	0.8	17
44	Comparison of low-power wireless communication technologies for wearable health-monitoring applications. , 2015, , .		16
45	Deep-segmentation of plantar pressure images incorporating fully convolutional neural networks. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 546-558.	3.3	16
46	Emotion classification on eye-tracking and electroencephalograph fused signals employing deep gradient neural networks. <i>Applied Soft Computing Journal</i> , 2021, 110, 107752.	4.1	16
47	Meta-KANSEI Modeling with Valence-Arousal fMRI Dataset of Brain. <i>Cognitive Computation</i> , 2019, 11, 227-240.	3.6	15
48	A low clock frequency FFT core implementation for multiband full-rate ultra-wideband (UWB) receivers. <i>IEEE Transactions on Consumer Electronics</i> , 2005, 51, 798-802.	3.0	14
49	Enhancing MB-OFDM throughput with dual circular 32-QAM. <i>IEEE Transactions on Consumer Electronics</i> , 2008, 54, 1640-1646.	3.0	14
50	Parallel pipelined array architectures for real-time histogram computation in consumer devices. <i>IEEE Transactions on Consumer Electronics</i> , 2011, 57, 1460-1464.	3.0	14
51	Fast median calculation method. <i>Electronics Letters</i> , 2012, 48, 558.	0.5	14
52	A Distance Regularized Level-Set Evolution Model Based MRI Dataset Segmentation of Brain's Caudate Nucleus. <i>IEEE Access</i> , 2019, 7, 124128-124140.	2.6	13
53	EZcap: A Novel Wearable for Real-Time Automated Seizure Detection From EEG Signals. <i>IEEE Transactions on Consumer Electronics</i> , 2021, 67, 166-175.	3.0	13
54	A green cluster-based routing scheme for large-scale wireless sensor networks. <i>International Journal of Communication Systems</i> , 2020, 33, e4375.	1.6	11

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55	Analysis of a DVB-T compliant receiver simulation under various multipath conditions. IEEE Transactions on Consumer Electronics, 2000, 46, 201-206.	3.0	10
56	Secure store and forward proxy for dynamic IoT applications over M2M networks. IEEE Transactions on Consumer Electronics, 2016, 62, 389-397.	3.0	10
57	Simplified inverse filter tracked affective acoustic signals classification incorporating deep convolutional neural networks. Applied Soft Computing Journal, 2020, 97, 106775.	4.1	10
58	Simultaneous mobile sink allocation in home environments with applications in mobile consumer robotics. IEEE Transactions on Consumer Electronics, 2015, 61, 181-188.	3.0	9
59	Experimental validation of the recovery effect in batteries for wearable sensors and healthcare devices discovering the existence of hidden time constants. Journal of Engineering, 2017, 2017, 548-556.	0.6	9
60	Diabetic plantar pressure analysis using image fusion. Multimedia Tools and Applications, 2020, 79, 11213-11236.	2.6	8
61	Design issues toward a cost effective physical layer for multiband OFDM (ECMA-368) in consumer products. IEEE Transactions on Consumer Electronics, 2006, 52, 1179-1183.	3.0	7
62	A dual QPSK soft-demapper for multiband OFDM exploiting time-domain spreading and guard interval diversity. IEEE Transactions on Consumer Electronics, 2007, 53, 46-49.	3.0	7
63	A novel downlink semi-persistent packet scheduling scheme for VoLTE traffic over heterogeneous wireless networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	1.5	7
64	Stakeholder Views on the Idea of Medicines Reuse in the UK. Pharmacy (Basel, Switzerland), 2021, 9, 85.	0.6	7
65	The Effect of Quality Indicators on Beliefs about Medicines Reuse: An Experimental Study. Pharmacy (Basel, Switzerland), 2021, 9, 128.	0.6	7
66	A Practical Low Cost Architecture for a MB-OFDM Equalizer (ECMA-368). , 2007, , .		6
67	Fixed point Dual Carrier Modulation performance for wireless USB. , 2009, , .		6
68	A double data rate architecture for OFDM based wireless consumer devices. IEEE Transactions on Consumer Electronics, 2010, 56, 23-26.	3.0	6
69	Virtualization for Cost-Effective Teaching of Assembly Language Programming. IEEE Transactions on Education, 2015, 58, 282-288.	2.0	6
70	Performance and conformance results of the deterministic DVB-T equalizer. IEEE Transactions on Consumer Electronics, 2004, 50, 95-99.	3.0	5
71	Parallel pipelined histogram architectures. Electronics Letters, 2011, 47, 1118.	0.5	5
72	C-slow retimed parallel histogram architectures for consumer imaging devices. IEEE Transactions on Consumer Electronics, 2013, 59, 291-295.	3.0	5

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73	Enabling actor model for crowd sensing and IoT. , 2015, , .		5
74	SlimFS: A Thin and Unobtrusive File System for Embedded Systems and Consumer Products. IEEE Transactions on Consumer Electronics, 2018, 64, 334-338.	3.0	5
75	Medicines as Common Commodities or Powerful Potions? What Makes Medicines Reusable in People's Eyes. Pharmacy (Basel, Switzerland), 2021, 9, 88.	0.6	5
76	Colored Video Analysis in Wireless Capsule Endoscopy: A Survey of State-of-the-Art. Current Medical Imaging, 2020, 16, 1074-1084.	0.4	5
77	A parallel convolutional coder including embedded puncturing with application to consumer devices. IEEE Transactions on Consumer Electronics, 2008, 54, 1647-1650.	3.0	4
78	Proxy re-encryption schemes for IoT and crowd sensing. , 2016, , .		4
79	Texture features based microscopic image classification of liver cellular granuloma using artificial neural networks. , 2019, , .		4
80	Generalized and Efficient Skill Assessment from IMU Data with Applications in Gymnastics and Medical Training. ACM Transactions on Computing for Healthcare, 2021, 2, 1-21.	3.3	4
81	Identification and minimization of IIR tap coefficients for the cancellation of complex multipath in terrestrial television. IEEE Transactions on Circuits and Systems for Video Technology, 1996, 6, 703-706.	5.6	3
82	Correcting for local oscillator phase offset in a DVB-T compliant receiver under multipath conditions. IEEE Transactions on Consumer Electronics, 2000, 46, 306-312.	3.0	3
83	Deterministic equalization and results of a DVT-T multipath equalizer for both 16-QAM and 64-QAM operation. IEEE Transactions on Consumer Electronics, 2003, 49, 21-26.	3.0	3
84	Low-Power Wearable Healthcare Sensors. Electronics (Switzerland), 2020, 9, 892.	1.8	3
85	Improved and optimal dual circular 32-QAM for MB-OFDM. IEEE Transactions on Consumer Electronics, 2009, 55, 1121-1126.	3.0	2
86	Distributed access control and privacy for the internet of me. , 2016, , .		2
87	Dictionary memory based software architecture for distributed Bluetooth Low Energy host controllers enabling high coverage in consumer residential healthcare environments. , 2017, , .		2
88	Task Scheduling to Constrain Peak Current Consumption in Wearable Healthcare Sensors. Electronics (Switzerland), 2019, 8, 789.	1.8	2
89	Pattern Mining Approaches Used in Social Media Data. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2020, 28, 123-152.	0.9	2
90	A BLOCK COPROCESSOR FOR USER DATA RATE IMPROVEMENTS TO GPRS CODING SCHEME 4. Journal of Circuits, Systems and Computers, 2007, 16, 541-551.	1.0	1

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91	A Dual QPSK Soft-demapper for ECMA-368 Exploiting Time-Domain Spreading and Guard Interval Diversity. , 2007, , .		1
92	Parallel pipelined histogram architecture via C-slow retiming. , 2013, , .		1
93	Enhancing Conference Papers for Submission to IEEE Transactions on Consumer Electronics [Society News]. IEEE Consumer Electronics Magazine, 2013, 2, 8-9.	2.3	1
94	Facts, Scope, Style... A guide to writing papers for the IEEE Transactions on Consumer Electronics. IEEE Consumer Electronics Magazine, 2014, 3, 49-52.	2.3	1
95	Analysis of recovery effect in supercapacitors for wearable devices. , 2017, , .		1
96	Automated image analysis system for renal filtration barrier integrity of potassium bromate treated adult male albino rat. Multimedia Tools and Applications, 2020, 79, 7559-7575.	2.6	1
97	Texture Spectrum Coupled with Entropy and Homogeneity Image Features for Myocardium Muscle Characterization. Current Bioinformatics, 2019, 14, 295-304.	0.7	1
98	The concept of a new video detector for ghosted IF signals. International Journal of Electronics, 1995, 78, 599-605.	0.9	0
99	Improving CS-4 User Data Rate in GPRS Enabled Devices by Using a BLER Co-processor. International Journal of Wireless Information Networks, 2006, 13, 239-251.	1.8	0
100	A Packet/Frame sync detector based on statistical mode with application to wireless-USB. , 2008, , .		0
101	A Parallel Quantum Histogram Architecture. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 437-441.	2.2	0