## Vladimir Stankovic

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2909922/publications.pdf

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202 papers 3,867 citations

30 h-index 51 g-index

203 all docs 203 docs citations

times ranked

203

2626 citing authors

#	Article	IF	CITATIONS
1	An electrical load measurements dataset of United Kingdom households from a two-year longitudinal study. Scientific Data, 2017, 4, 160122.	5.3	239
2	Non-Intrusive Load Disaggregation Using Graph Signal Processing. IEEE Transactions on Smart Grid, 2018, 9, 1739-1747.	9.0	216
3	On a Training-Less Solution for Non-Intrusive Appliance Load Monitoring Using Graph Signal Processing. IEEE Access, 2016, 4, 1784-1799.	4.2	173
4	Scalable Video Multicast Using Expanding Window Fountain Codes. IEEE Transactions on Multimedia, 2009, 11, 1094-1104.	7.2	124
5	On code design for the Slepian-Wolf problem and lossless multiterminal networks. IEEE Transactions on Information Theory, 2006, 52, 1495-1507.	2.4	107
6	Deep-Based Conditional Probability Density Function Forecasting of Residential Loads. IEEE Transactions on Smart Grid, 2020, 11, 3646-3657.	9.0	93
7	Improving Event-Based Non-Intrusive Load Monitoring Using Graph Signal Processing. IEEE Access, 2018, 6, 53944-53959.	4.2	83
8	Can non-intrusive load monitoring be used for identifying an appliance's anomalous behaviour?. Applied Energy, 2019, 238, 796-805.	10.1	82
9	Transferability of Neural Network Approaches for Low-rate Energy Disaggregation. , 2019, , .		79
10	Optimized error protection of scalable image bit streams [advances in joint source-channel coding for images. IEEE Signal Processing Magazine, 2005, 22, 91-107.	5.6	76
11	Measuring the energy intensity of domestic activities from smart meter data. Applied Energy, 2016, 183, 1565-1580.	10.1	73
12	Cooperative diversity for wireless ad hoc networks. IEEE Signal Processing Magazine, 2006, 23, 37-49.	5.6	72
13	Non-intrusive appliance load monitoring using low-resolution smart meter data. , 2014, , .		66
14	Distributed joint source-channel coding of video using raptor codes. IEEE Journal on Selected Areas in Communications, 2007, 25, 851-861.	14.0	61
15	Real-time error protection of embedded codes for packet erasure and fading channels. IEEE Transactions on Circuits and Systems for Video Technology, 2004, 14, 1064-1072.	8.3	59
16	Compressive Sampling of Binary Images. , 2008, , .		54
17	Unequal Error Protection Random Linear Coding Strategies for Erasure Channels. IEEE Transactions on Communications, 2012, 60, 1243-1252.	7.8	52
18	Low-complexity energy disaggregation using appliance load modelling. AIMS Energy, 2016, 4, 1-21.	1.9	52

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19	Fast algorithm for rate-based optimal error protection of embedded codes. IEEE Transactions on Communications, 2003, 51, 1788-1795.	7.8	51
20	On Multiterminal Source Code Design. IEEE Transactions on Information Theory, 2008, 54, 2278-2302.	2.4	50
21	Real-time unequal error protection algorithms for progressive image transmission. IEEE Journal on Selected Areas in Communications, 2003, 21, 1526-1535.	14.0	49
22	Non-intrusive load disaggregation solutions for very low-rate smart meter data. Applied Energy, 2020, 268, 114949.	10.1	45
23	Efficient Channel Code Rate Selection Algorithms for Forward Error Correction of Packetized Multimedia Bitstreams in Varying Channels. IEEE Transactions on Multimedia, 2004, 6, 240-248.	7.2	44
24	A graph-based signal processing approach for low-rate energy disaggregation. , 2014, , .		44
25	Fast algorithm for distortion-based error protection of embedded image codes. IEEE Transactions on Image Processing, 2005, 14, 1417-1421.	9.8	42
26	Near-Capacity Dirty-Paper Code Design: A Source-Channel Coding Approach. IEEE Transactions on Information Theory, 2009, 55, 3013-3031.	2.4	41
27	Preliminary interdependency analysis: An approach to support critical-infrastructure risk-assessment. Reliability Engineering and System Safety, 2017, 167, 198-217.	8.9	41
28	Compress-Forward Coding With BPSK Modulation for the Half-Duplex Gaussian Relay Channel. IEEE Transactions on Signal Processing, 2009, 57, 4467-4481.	5.3	39
29	Understanding usage patterns of electric kettle and energy saving potential. Applied Energy, 2016, 171, 231-242.	10.1	39
30	Rate-based versus distortion-based optimal joint source-channel coding., 0,,.		36
31	On Practical Design for Joint Distributed Source and Network Coding. IEEE Transactions on Information Theory, 2009, 55, 1709-1720.	2.4	36
32	A Depth Camera Motion Analysis Framework for Tele-rehabilitation: Motion Capture and Person-Centric Kinematics Analysis. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 877-887.	10.8	36
33	A Generic Optimisation-Based Approach for Improving Non-Intrusive Load Monitoring. IEEE Transactions on Smart Grid, 2019, 10, 6472-6480.	9.0	36
34	User-Action-Driven View and Rate Scalable Multiview Video Coding. IEEE Transactions on Image Processing, 2013, 22, 3473-3484.	9.8	34
35	Singular value decomposition based fusion for super-resolution image reconstruction. Signal Processing: Image Communication, 2012, 27, 180-191.	3.2	33
36	Wyner-Ziv Coding for the Half-Duplex Relay Channel., 0,,.		32

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37	Random Network Coding for Multimedia Delivery Services in LTE/LTE-Advanced. IEEE Transactions on Multimedia, 2014, 16, 277-282.	7.2	32
38	Estimating Heart Rate and Rhythm via 3D Motion Tracking in Depth Video. IEEE Transactions on Multimedia, 2017, 19, 1625-1636.	7.2	31
39	Compressive image sampling with side information. , 2009, , .		30
40	Image registration using BP-SIFT. Journal of Visual Communication and Image Representation, 2013, 24, 448-457.	2.8	29
41	Cooperative network-coding system for wireless sensor networks. IET Communications, 2012, 6, 344.	2.2	28
42	Sleep Apnea Detection via Depth Video and Audio Feature Learning. IEEE Transactions on Multimedia, 2017, 19, 822-835.	7.2	28
43	Unequal error protection random linear coding for multimedia communications. , 2010, , .		26
44	Averaging Is Probably Not the Optimum Way of Aggregating Parameters in Federated Learning. Entropy, 2020, 22, 314.	2.2	26
45	Wyner–Ziv Video Compression and Fountain Codes for Receiver-Driven Layered Multicast. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 901-906.	8.3	25
46	An Experimental Study of Diversity with Off-the-Shelf AntiVirus Engines. , 2009, , .		25
47	Robust layered multiple description coding of scalable media data for multicast. IEEE Signal Processing Letters, 2005, 12, 154-157.	3.6	24
48	Adaptive Correlation Estimation With Particle Filtering for Distributed Video Coding. IEEE Transactions on Circuits and Systems for Video Technology, 2012, 22, 649-658.	8.3	24
49	Diversity for Security: A Study with Off-the-Shelf AntiVirus Engines. , 2011, , .		23
50	Individualised Responsible Artificial Intelligence for Home-Based Rehabilitation. Sensors, 2021, 21, 2.	3.8	23
51	Expanding Window Fountain codes for scalable video multicast. , 2008, , .		22
52	Near-capacity dirty-paper code designs based on TCQ and IRA codes. , 2005, , .		21
53	On-chip Fourier-transform spectrometers and machine learning: a new route to smart photonic sensors. Optics Letters, 2019, 44, 5840.	3.3	21
54	A low-complexity energy disaggregation method: Performance and robustness. , 2014, , .		20

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55	Detecting Household Activity Patterns from Smart Meter Data. , 2014, , .		20
56	Evaluation of Non-intrusive Load Monitoring Algorithms for Appliance-level Anomaly Detection. , 2019, , .		20
57	Nested turbo codes for the Costa problem. IEEE Transactions on Communications, 2008, 56, 388-399.	7.8	19
58	View-Popularity-Driven Joint Source and Channel Coding of View and Rate Scalable Multi-View Video. IEEE Journal on Selected Topics in Signal Processing, 2015, 9, 474-486.	10.8	19
59	Human Upper Limb Motion Analysis for Post-Stroke Impairment Assessment Using Video Analytics. IEEE Access, 2016, 4, 650-659.	4.2	18
60	Power disaggregation of domestic smart meter readings using dynamic time warping. , 2014, , .		17
61	Blind non-intrusive appliance load monitoring using graph-based signal processing. , 2015, , .		17
62	Autonomous Gait Event Detection with Portable Single-Camera Gait Kinematics Analysis System. Journal of Sensors, 2016, 2016, 1-8.	1.1	17
63	Distinct Feature Extraction for Video-Based Gait Phase Classification. IEEE Transactions on Multimedia, 2020, 22, 1113-1125.	7.2	17
64	Relay-Assisted Rateless Layered Multiple Description Video Delivery. IEEE Journal on Selected Areas in Communications, 2013, 31, 1629-1637.	14.0	16
65	Temperature distribution and Specific Absorption Rate inside a child's head. International Journal of Heat and Mass Transfer, 2017, 104, 559-565.	4.8	16
66	Factors That Contribute to the Use of Stroke Self-Rehabilitation Technologies: A Review. JMIR Biomedical Engineering, 2019, 4, e13732.	1.2	16
67	Joint product code optimization for scalable multimedia transmission over wireless channels., 0,,.		15
68	Layered Wyner–Ziv video coding for transmission over unreliable channels. Signal Processing, 2006, 86, 3212-3225.	3.7	15
69	Single pixel optical imaging using a scanning MEMS mirror. Journal of Micromechanics and Microengineering, 2011, 21, 025022.	2.6	15
70	On Designing Dependable Services with Diverse Off-the-Shelf SQL Servers. Lecture Notes in Computer Science, 2004, , 191-214.	1.3	15
71	Computing the channel capacity and rate-distortion function with two-sided state information. IEEE Transactions on Information Theory, 2005, 51, 4418-4425.	2.4	14
72	Graph-based depth video denoising and event detection for sleep monitoring. , 2014, , .		14

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73	Shift-Enabled Graphs: Graphs Where Shift-Invariant Filters are Representable as Polynomials of Shift Operations. IEEE Signal Processing Letters, 2018, 25, 1305-1309.	3.6	14
74	Multiterminal Video Coding., 2007,,.		13
75	Code design for MIMO broadcast channels. IEEE Transactions on Communications, 2009, 57, 986-996.	7.8	13
76	Two-Terminal Video Coding. IEEE Transactions on Image Processing, 2009, 18, 534-551.	9.8	13
77	Performance evaluation of Raptor and Random Linear Codes for H.264/AVC video transmission over DVB-H networks., 2011,,.		13
78	Automated Platform for Microseismic Signal Analysis: Denoising, Detection, and Classification in Slope Stability Studies. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7996-8006.	6.3	13
79	Singular value decomposition based fusion for super-resolution image reconstruction. , 2011, , .		12
80	Deterministic network coding over Long Term Evaluation Advance communication system. , 2014, , .		12
81	Object Detection Techniques: Overview and Performance Comparison., 2019,,.		12
82	Expanding Window Random Linear Codes for data partitioned H.264 video transmission over DVB-H network. , 2011, , .		11
83	Multiple marker tracking in a single-camera system for gait analysis. , 2013, , .		11
84	Estimating heart rate via depth video motion tracking. , 2015, , .		11
85	Appliance electrical consumption modelling at scale using smart meter data. Journal of Cleaner Production, 2018, 187, 237-249.	9.3	11
86	Alternating Binary Classifier and Graph Learning from Partial Labels. , 2018, , .		11
87	Improved sift-based image registration using belief propagation. , 2009, , .		10
88	Uncertainty explicit assessment of off-the-shelf software: A Bayesian approach. Information and Software Technology, 2009, 51, 497-511.	4.4	10
89	An Efficient Spectrum Sensing Scheme for Cognitive Radio. IEEE Signal Processing Letters, 2009, 16, 501-504.	3.6	10
90	Unequal error protection for data partitioned H.264/AVC video broadcasting. Multimedia Tools and Applications, 2015, 74, 5787-5809.	3.9	10

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91	Optimal Detection and Error Exponents for Hidden Semi-Markov Models. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1077-1092.	10.8	10
92	Flexible Force Sensors Embedded in Office Chair for Monitoring of Sitting Postures., 2019,,.		10
93	Explainable NILM Networks. , 2020, , .		10
94	Performance Analysis of Node Cooperation with Network Coding in Wireless Sensor Networks. , 2011, , .		9
95	Distributed Compression for Condition Monitoring of Wind Farms. IEEE Transactions on Sustainable Energy, 2013, 4, 174-181.	8.8	9
96	Upper limb movement analysis via marker tracking with a single-camera system. , 2014, , .		9
97	Electric field distribution and SAR in human head from mobile phones. , 2015, , .		9
98	Gait phase classification for in-home gait assessment. , 2017, , .		9
99	Evaluation of low-complexity supervised and unsupervised NILM methods and pre-processing for detection of multistate white goods. , 2020, , .		9
100	Low-Frequency Non-Intrusive Load Monitoring of Electric Vehicles in Houses with Solar Generation: Generalisability and Transferability. Energies, 2022, 15, 2200.	3.1	9
101	Onboard Low-Complexity Compression of Solar Stereo Images. IEEE Transactions on Image Processing, 2012, 21, 3114-3118.	9.8	8
102	Hamming Distance Spectrum of DAC Codes for Equiprobable Binary Sources. IEEE Transactions on Communications, 2016, 64, 1232-1245.	7.8	8
103	Evaluation of Home-Based Rehabilitation Sensing Systems with Respect to Standardised Clinical Tests. Sensors, 2020, 20, 26.	3.8	8
104	Building a Graph Signal Processing Model Using Dynamic Time Warping for Load Disaggregation. Sensors, 2020, 20, 6628.	3.8	8
105	Smart Security Audit: Reinforcement Learning with a Deep Neural Network Approximator. , 2020, , .		8
106	Human Activity Recognition of Individuals with Lower Limb Amputation in Free-Living Conditions: A Pilot Study. Sensors, 2021, 21, 8377.	3.8	8
107	Real-time unequal error protection for distortion-optimal progressive image transmission., 0,,.		7
108	On dualities in multiterminal coding problems. IEEE Transactions on Information Theory, 2006, 52, 307-315.	2.4	7

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109	Raptor packets: A packet-centric approach to distributed raptor code design., 2009,,.		7
110	Contrast enhancement and denoising of Poisson and Gaussian mixture noise for solar images., 2011,,.		7
111	Distributed compression: Overview of current and emerging multimedia applications. , $2011,  ,  .$		7
112	An Empirical Study of the Effectiveness of & amp; #x0022; Forcing & amp; #x0022; Diversity Based on a Large Population of Diverse Programs., 2012,,.		7
113	Does Malware Detection Improve with Diverse AntiVirus Products? An Empirical Study. Lecture Notes in Computer Science, 2013, , 94-105.	1.3	7
114	Image data hiding based on capacity-approaching dirty-paper coding. , 2006, , .		6
115	Code Designs for MIMO Broadcast Channels. , 2006, , .		6
116	Distributed Source Coding for Multimedia Multicast Over Heterogeneous Networks. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 220-230.	10.8	6
117	Comparison of Empirical Data from Two Honeynets and a Distributed Honeypot Network., 2008,,.		6
118	Compress-forward coding with BPSK modulation for the half-duplex Gaussian relay channel., 2008,,.		6
119	A random linear coding scheme with perimeter data gathering for wireless sensor networks. , 2011, , .		6
120	Random Network Coding for Multimedia Delivery over LTE-Advanced. , 2012, , .		6
121	A study of the relationship between antivirus regressions and label changes. , 2013, , .		6
122	Analysis on Tailed Distributed Arithmetic Codes for Uniform Binary Sources. IEEE Transactions on Communications, 2016, , 1-1.	7.8	6
123	Network Coding Hard and Soft Decision Behavior over the Physical Payer Using PUMTC. , 2018, , .		6
124	Network Spread Coding. , 2008, , .		5
125	Compress-spread-forward with multiterminal source coding and complete complementary sequences. IEEE Transactions on Communications, 2009, 57, 884-887.	7.8	5
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127	Deep Graph Regularized Learning for Binary Classification. , 2019, , .		5
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130	Two-Way Video Communication Based on Network Coding. , 2007, , .		4
131	On distributed LDGM and LDPC code design for networked systems. , 2009, , .		4
132	Multiterminal source coding for multiview images under wireless fading channels. Multimedia Tools and Applications, 2010, 48, 457-470.	3.9	4
133	Fireworks: A random linear coding scheme for distributed storage in wireless sensor networks. , 2010, , .		4
134	View and rate scalable multiview image coding with depth-image-based rendering. , $2011$ , , .		4
135	Scalable compressive video., 2011,,.		4
136	Correlation estimation with particle-based belief propagation for distributed video coding. , $2011$ , , .		4
137	Packet-centric approach to distributed sparse-graph coding in wireless ad hoc networks. Ad Hoc Networks, 2013, 11, 167-181.	5.5	4
138	Sleep monitoring via depth video compression & amp; amp; analysis., 2014,,.		4
139	Gait analysis using a single depth camera. , 2015, , .		4
140	Automation enhancement and accuracy investigation of a portable single amera gait analysis system. IET Science, Measurement and Technology, 2019, 13, 563-571.	1.6	4
141	Video Multicast over Heterogeneous Networks Based on Distributed Source Coding Principles. , 2006, , .		3
142	FOREVER., 2008,,.		3
143	Performance analysis of PUM codes. , 2008, , .		3
144	On unequal error protection random linear coding for scalable video broadcasting. , 2010, , .		3

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145	Onboard low-complexity compression of solar images. , 2011, , .		3
146	Unequal error protection for data partitioned H.264/AVC video streaming with raptor and random linear codes for DVB-H networks. , 2011, , .		3
147	Software Diversity as a Measure for Reducing Development Risk. , 2014, , .		3
148	Kinematics Analysis Multimedia System for Rehabilitation. Lecture Notes in Computer Science, 2015, , 571-579.	1.3	3
149	The impact of human age on the amount of absorbed energy from mobile phone. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2019, 38, 1465-1479.	0.9	3
150	Codebook Cardinality Spectrum of Distributed Arithmetic Coding for Independent and Identically-Distributed Binary Sources. IEEE Transactions on Information Theory, 2020, 66, 6580-6596.	2.4	3
151	Portable offline indoor object recognition system for the visually impaired. Cogent Engineering, 2020, 7, 1823158.	2.2	3
152	Precoded EWF Codes for Unequal Error Protection of Scalable Video. , 2009, , .		3
153	Forward Error Control for Packet Loss and Corruption. , 2007, , 271-291.		3
154	Calculation of electromagnetic field from mobile phone induced in the pituitary gland of children head model. Vojnosanitetski Pregled, 2017, 74, 854-861.	0.2	3
155	Improving DBMS Performance through Diverse Redundancy. Proceedings of the IEEE Symposium on Reliable Distributed Systems, 2006, , .	0.0	2
156	Image Encryption and Data Hiding: Duality and Code Designs. , 2007, , .		2
157	Image-in-image hiding using complete complementary sequences. , 2008, , .		2
158	Bandwidth efficient multi-station wireless streaming based on complete complementary sequences. IEEE Transactions on Wireless Communications, 2009, 8, 552-556.	9.2	2
159	Scalable video coding for mobile broadcasting DVB systems. , 2010, , .		2
160	Thermal effects on human head from mobile phones. , 2015, , .		2
161	Graph-based clustering for identifying region of interest in eye tracker data analysis. , 2017, , .		2
162	Intertwining and NCA Maps Based New Image Encryption Scheme. , 2018, , .		2

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163	Electric field distribution and SAR inside a human eye exposed to VR glasses. IET Microwaves, Antennas and Propagation, 2018, 12, 2234-2240.	1.4	2
164	Effect of External Daylight in Smart Dimmable LED Lighting Systems. , 2019, , .		2
165	Protocol Design for Farm Animal Monitoring Using Simulation. Lecture Notes in Computer Science, 2012, , 126-138.	1.3	2
166	Effects of using metal frame glasses exposed to electromagnetic radiation from mobile phone. Safety Engineering, 2020, $10$ , $1$ -8.	0.1	2
167	Joint source-channel fractal image coding with unequal error protection. Optical Engineering, 2002, 41, 3168.	1.0	1
168	Efficient Multimedia Multicast Using Distributed Source Coding. , 2007, , .		1
169	Low complexity multi-view video streaming over multipath fading channels. , 2008, , .		1
170	Stereo Image Transmission over Fading Channels with Multiterminal Source Coding., 2009, , .		1
171	Optical imaging with scanning MEMS mirror - A single photodetector approach. , 2009, , .		1
172	Scalable broadcasting of sliced H.264/AVC over DVB-H network. , 2011, , .		1
173	HVS based dictionary learning for scalable sparse image representation. , 2012, , .		1
174	Adaptive layered multiple description coding for wireless video with expanding window Random linear codes. , 2012, , .		1
175	Multi-user video streaming using unequal error protection network coding in wireless networks. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	1
176	Rate Adaptive Selective Segment Assignment for Reliable Wireless Video Transmission. International Journal of Digital Multimedia Broadcasting, 2012, 2012, 1-9.	0.6	1
177	Joint source and channel coding of view and rate scalable multi-view video. , 2014, , .		1
178	Linear state estimation via 5G C-RAN cellular networks using Gaussian belief propagation., 2018,,.		1
179	Security and Performance Trade-offs for Data Distribution Service in Flying Ad-Hoc Networks. , 2019, , .		1
180	Distribution of the Absorbed Mobile Phone Energy at $1.8\mathrm{and}2.1\mathrm{GHz}$ in a Child Head Model. , $2019,$ , .		1

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181	Target Detection and Recognition of Ground Penetrating Radar using Morphological Image Analysis and Graph Laplacian Regularisation. , 2021, , .		1
182	Undirected Graphs: Is the Shift-Enabled Condition Trivial or Necessary?. IEEE Access, 2021, 9, 75082-75089.	4.2	1
183	Channel Protection Fundamentals. , 2007, , 187-228.		1
184	Dictionary Learning for Scalable Sparse Image Representation with Applications. Advances in Signal Processing, 2014, 2, 55-74.	0.1	1
185	Distribution of the magnetic field from a mobile phone at 0.9, 1.8 and 2.1 GHz through a child head model. Safety Engineering, 2020, 10, 81-84.	0.1	1
186	Non-Intrusive Load Monitoring for Multi-objects in Smart Building. , 2021, , .		1
187	Layered Wyner-Ziv video coding for transmission over unreliable channels. , 2005, , .		O
188	Compress-spread-forward with multiterminal source coding and complete complementary sequences. , 2007, , .		0
189	Wireless video distribution to handheld devices. , 2007, , .		O
190	Multiuser resource allocation for video transmission over a chip-interleaved multicarrier system. Wireless Communications and Mobile Computing, 2007, 7, 143-158.	1.2	0
191	Cumulative intelligence gathering for smart vehicles. , 2008, , .		0
192	An imaging systen based on a single MEMS scanner and photodetector., 2009,,.		0
193	Optical MEMS image enhancement with sparse signal representation., 2011,,.		O
194	Distributed compression for condition monitoring of wind farms. , 2012, , .		0
195	Scalable user-adaptive multiview video coder. , 2013, , .		O
196	Stochastic Modeling for Performance Evaluation of Database Replication Protocols. Lecture Notes in Computer Science, 2015, , 21-37.	1.3	0
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199	MOBILE PHONES AND CHILDREN. , 2016, 6, .		O
200	ESTIMATION OF ABSORBED ELECTROMAGNETIC ENERGY ON SERVICE TECHNICIANS FROM BASE STATION ANTENNA SYSTEMS. , $2018, 8, .$		0
201	AN APPROXIMATE ANALYTICAL EXPRESSION FOR RESISTANCE OF THE VERTICAL GROUNDING ELECTRODE PLACED IN MULTILAYERED MEDIA. , $2018, 8, .$		O
202	Quantification of Dairy Farm Energy Consumption to Support the Transition to Sustainable Farming. , 2022, , .		0