

Hans Jrgen D Zepernick

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

137
papers

1,573
citations

19
h-index

34
g-index

201
ext. papers

1,948
ext. citations

2.8
avg, IF

4.98
L-index

#	Paper	IF	Citations
137	Video Freeze Assessment of TPCAST Wireless Virtual Reality: An Experimental Study. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1733	2.6	
136	Performance Analysis of an Adaptive Rate Scheme for QoE-Assured Mobile VR Video Streaming. <i>Computers</i> , 2022 , 11, 69	1.9	1
135	On the Effect of Standing and Seated Viewing of 360° Videos on Subjective Quality Assessment: A Pilot Study. <i>Computers</i> , 2021 , 10, 80	1.9	1
134	Viewing Direction Based LSB Data Hiding in 360° Videos. <i>Electronics (Switzerland)</i> , 2021 , 10, 1527	2.6	0
133	Performance of MIMO MRT-MRC Systems with Antenna Grouping and Interference Cancellation 2021 ,		2
132	Evaluation of Simulator Sickness for 360° Videos on an HMD Subject to Participants Experience with Virtual Reality 2020 ,		2
131	On the Effect of Standing and Seated Viewing of 360° Videos on Subjective Quality Assessment 2020 ,		1
130	Network-Induced Temporal Disturbances in Virtual Reality Applications 2019 ,		3
129	. <i>IEEE Access</i> , 2019 , 7, 154424-154434	3.5	0
128	Annotated 360-Degree Image and Video Databases: A Comprehensive Survey 2019 ,		1
127	Optimal Power Allocation for Hybrid Cognitive Cooperative Radio Networks With Imperfect Spectrum Sensing. <i>IEEE Access</i> , 2018 , 6, 10365-10380	3.5	12
126	Performance Optimization for Hybrid Two-Way Cognitive Cooperative Radio Networks With Imperfect Spectrum Sensing. <i>IEEE Access</i> , 2018 , 6, 70582-70596	3.5	11
125	Performance of a Non-Orthogonal Multiple Access System With Full-Duplex Relaying. <i>IEEE Communications Letters</i> , 2018 , 22, 2084-2087	3.8	29
124	On Capacity of Full-Duplex Cognitive Cooperative Radio Networks with Optimal Power Allocation 2017 ,		4
123	2017 ,		1
122	Multimodal Function Optimization Using an Improved Bat Algorithm in Noise-Free and Noisy Environments. <i>Modeling and Optimization in Science and Technologies</i> , 2017 , 29-49	0.6	
121	On proactive attacks for coping with cooperative attacks in relay networks 2017 ,		3

120	A Framework for Packet Delay Analysis of Point-to-Multipoint Underlay Cognitive Radio Networks. <i>IEEE Transactions on Mobile Computing</i> , 2017 , 16, 2408-2421	4.6	5
119	Outage probability and secrecy capacity of a non-orthogonal multiple access system 2017 ,		10
118	Outage probability of MIMO cognitive cooperative radio networks with multiple AF relays using orthogonal space-time block codes 2017 ,		2
117	Hybrid spectrum access with relay assisting both primary and secondary networks under imperfect spectrum sensing. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2016 , 2016,	3.2	3
116	QoE rating performance evaluation of ITU-T recommended video quality metrics in the context of video freezes. <i>Australian Journal of Electrical and Electronics Engineering</i> , 2016 , 13, 122-131	0.6	1
115	A Cross-Layer Optimized Scheme and Its Application in Mobile Multimedia Networks With QoS Provision. <i>IEEE Systems Journal</i> , 2016 , 10, 817-830	4.3	12
114	Outage probability of a cognitive cooperative relay network with multiple primary users under primary outage constraint 2016 ,		2
113	Ergodic capacity of multiuser scheduling in cognitive radio networks: analysis and comparison. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 2759-2774	1.9	3
112	Quality of experience of digital multimedia broadcasting services: An experimental study 2016 ,		2
111	Proactive attack: A strategy for legitimate eavesdropping 2016 ,		15
110	Channel reservation for dynamic spectrum access of cognitive radio networks with prioritized traffic 2015 ,		4
109	Cognitive cooperative networks with decode-and-forward relay selection under interference constraints of multiple primary users. <i>Wireless Communications and Mobile Computing</i> , 2015 , 15, 1433-1443	1.9	1
108	Performance analysis of MIMO cognitive amplify-and-forward relay networks with orthogonal space-time block codes. <i>Wireless Communications and Mobile Computing</i> , 2015 , 15, 1659-1679	1.9	3
107	. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 566-579	6.8	8
106	Performance analysis of opportunistic scheduling with HARQ for cognitive radio networks 2015 ,		3
105	Cognitive amplify-and-forward relay networks with beamforming under primary user power constraint over Nakagami-m fading channels. <i>Wireless Communications and Mobile Computing</i> , 2015 , 15, 56-70	1.9	
104	Symbol error probability and effective capacity of an underlay CRN over α -fading channels 2015 ,		1
103	On physical layer security for cognitive radio networks with primary user interference 2015 ,		6

102	Synthesizing Cross-Ambiguity Functions Using the Improved Bat Algorithm. <i>Studies in Computational Intelligence</i> , 2015 , 179-202	0.8	1
101	Delay analysis for cognitive ad hoc networks using multi-channel medium access control. <i>IET Communications</i> , 2014 , 8, 1083-1093	1.3	1
100	. <i>IEEE Transactions on Communications</i> , 2014 , 62, 2183-2197	6.9	40
99	Adaptive modulation and coding with queue awareness in cognitive incremental decode-and-forward relay networks 2014 ,		5
98	Dynamic Spectrum Access for Cognitive Radio Networks With Prioritized Traffics. <i>IEEE Communications Letters</i> , 2014 , 18, 1218-1221	3.8	17
97	On physical layer security for reactive DF cognitive relay networks 2014 ,		7
96	Wireless information and power transfer in an underlay cognitive radio network 2014 ,		16
95	No-reference image and video quality assessment: a classification and review of recent approaches. <i>Eurasip Journal on Image and Video Processing</i> , 2014 , 2014,	2.5	74
94	Achievable secrecy capacity in an underlay cognitive radio network 2014 ,		4
93	2014 ,		11
92	Cognitive Proactive and Reactive DF Relaying Schemes under Joint Outage and Peak Transmit Power Constraints. <i>IEEE Communications Letters</i> , 2013 , 17, 1548-1551	3.8	13
91	Comparative study of fixation density maps. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 1121-33	8.7	25
90	Impact of interference power constraint on multi-hop cognitive amplify-and-forward relay networks over Nakagami-m fading. <i>IET Communications</i> , 2013 , 7, 860-866	1.3	11
89	Outage probability and ergodic capacity of underlay cognitive radio systems with adaptive power transmission 2013 ,		3
88	Outage performance of cognitive radio networks under outage constraint of multiple primary users and transmit power constraint of secondary user 2013 ,		4
87	Performance analysis for multiple-input multiple-output-maximum ratio transmission systems with channel estimation error, feedback delay and co-channel interference. <i>IET Communications</i> , 2013 , 7, 279-285	1.3	6
86	On the Performance of Underlay Cognitive Radio Networks Using M/G/1/K Queueing Model. <i>IEEE Communications Letters</i> , 2013 , 17, 876-879	3.8	24
85	On the performance of cognitive radio networks with DF relay assistance under primary outage constraint using SC and MRC 2013 ,		4

84	Beamforming transmission in cognitive AF relay networks with feedback delay 2013 ,		4
83	Low Flights and Global Optimization 2013 , 49-72		18
82	MIMO Incremental AF Relay Networks with TAS/MRC and Adaptive Modulation 2013 ,		4
81	Packet transmission time for cognitive radio networks considering interference from primary user 2013 ,		9
80	Opportunistic relaying for cognitive network with multiple primary users over Nakagami-m fading 2013 ,		12
79	Impact of primary networks on the performance of secondary networks 2013 ,		12
78	Cognitive MIMO AF relay network with TAS/MRC under peak interference power constraint 2013 ,		1
77	Distributed orthogonal space-time block coding in wireless relay networks. <i>IET Communications</i> , 2013 , 7, 1825-1835	1.3	2
76	Test Functions for Global Optimization: A Comprehensive Survey 2013 , 193-222		19
75	Adaptive transmission in MIMO AF relay networks with orthogonal space-time block codes over Nakagami-m fading. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012 , 2012,	3.2	4
74	Delay performance of cognitive radio networks for point-to-point and point-to-multipoint communications. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012 , 2012,	3.2	14
73	Human observer confidence in image quality assessment. <i>Signal Processing: Image Communication</i> , 2012 , 27, 935-947	2.8	6
72	Beamforming in two-way fixed gain amplify-and-forward relay systems with CCI 2012 ,		5
71	Beamforming Amplify-and-Forward Relay Networks With Feedback Delay and Interference. <i>IEEE Signal Processing Letters</i> , 2012 , 19, 16-19	3.2	32
70	. <i>IEEE Transactions on Communications</i> , 2012 , 60, 3683-3693	6.9	9
69	Distributed space-time coding in two-way fixed gain relay networks over Nakagami-m fading 2012 ,		4
68	MRT/MRC for cognitive AF relay networks under feedback delay and channel estimation error 2012 ,		4
67	Amplify-and-forward relay assisting both primary and secondary transmissions in cognitive radio networks over Nakagami-m fading 2012 ,		3

66	MIMO cooperative multiple-relay networks with OSTBCs over Nakagami-m fading 2012 ,		1
65	Effect of primary network on performance of spectrum sharing AF relaying. <i>Electronics Letters</i> , 2012 , 48, 25	1.1	32
64	Performance Analysis of Decouple-and-Forward MIMO Relaying in Nakagami-m Fading. <i>IEICE Transactions on Communications</i> , 2012 , E95.B, 3003-3006	0.5	
63	Exact outage probability of cognitive AF relaying with underlay spectrum sharing. <i>Electronics Letters</i> , 2011 , 47, 1001	1.1	88
62	SER of Amplify-and-Forward Cooperative Networks with OSTBC Transmission in Nakagami-m Fading 2011 ,		1
61	Multi-Keyhole Effect in MIMO AF Relay Downlink Transmission with Space-Time Block Codes 2011 ,		1
60	Waveform Optimization for Integrated Radar and Communication Systems Using Meta-Heuristic Algorithms. <i>Studies in Computational Intelligence</i> , 2011 , 183-203	0.8	1
59	. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 882-889	6.8	45
58	Cross-Layer Design for MRT Systems with Channel Estimation Error and Feedback Delay. <i>Wireless Personal Communications</i> , 2011 , 58, 681-694	1.9	3
57	A framework for error protection of region of interest coded images and videos. <i>Signal Processing: Image Communication</i> , 2011 , 26, 236-249	2.8	2
56	Queuing analysis for cognitive radio networks under peak interference power constraint 2011 ,		3
55	Psychophysical assessment of perceived interest in natural images: The ROI-D database 2011 ,		4
54	Call quality monitoring for VoIP 2011 ,		1
53	Outage performance for opportunistic decode-and-forward relaying coded cooperation networks over Nakagami-m fading 2011 ,		1
52	Outage probability and ergodic capacity for MIMO-MRT systems under co-channel interference and imperfect CSI 2011 ,		3
51	OSTBC Transmission in MIMO AF Relay Systems with Keyhole and Spatial Correlation Effects 2011 ,		12
50	. <i>IEEE Signal Processing Magazine</i> , 2011 , 28, 50-59	9.4	95
49	Real-time unequal error protection for wireless imaging 2011 ,		1

48	Cross-Layer Design for Video Replication Strategy over Multihop Wireless Networks 2011,		5
47	Fusion of digital map traffic signs and camera-detected signs 2011,		7
46	Cooperative spectrum sharing networks with AF relay and selection diversity. <i>Electronics Letters,</i> 2011, 47, 1149	1.1	43
45	End-to-end performance of randomized distributed space-time codes 2010,		1
44	Modelling saliency awareness for objective video quality assessment 2010,		21
43	Analysing inter-observer saliency variations in task-free viewing of natural images 2010,		7
42	Error protection for wireless imaging: Providing a trade-off between performance and complexity 2010,		2
41	2010,		4
40	Cross-Layer Design for Integrated Mobile Multimedia Networks with Strict Priority Traffic 2010,		3
39	Average sum-rate of distributed Alamouti space-time scheme in two-way amplify-and-forward relay networks 2010,		1
38	Full-rate distributed space-time coding for bi-directional cooperative communications 2010,		3
37	2010,		2
36	Performance of a spectrum sharing system over Nakagami-m fading channels 2010,		5
35	Performance of cognitive radio networks with maximal ratio combining over correlated Rayleigh fading 2010,		4
34	Average waiting time of packets with different priorities in cognitive radio networks 2010,		11
33	Linking distortion perception and visual saliency in H.264/AVC coded video containing packet loss 2010,		14
32	. <i>IEEE Transactions on Vehicular Technology,</i> 2010, 59, 2735-2747	6.8	109
31	QoE-based Cross-Layer Design of Mobile Video Systems: Challenges and Concepts 2009,		5

30	Perceptual-based quality assessment of error protection schemes for wireless JPEG2000 2009 ,		2
29	. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 3847-3857		2.8
28	Reduced-reference metric design for objective perceptual quality assessment in wireless imaging. <i>Signal Processing: Image Communication</i> , 2009 , 24, 525-547	2.8	59
27	2009 ,		12
26	On the Performance Gain of Hybrid Decode-Amplify-Forward Cooperative Communications. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2009 , 2009,	3.2	41
25	Hybrid Decode-Amplify-Forward Cooperative Communications with Multiple Relays 2009 ,		18
24	Performance analysis of cooperative spatial multiplexing with amplify-and-forward relays 2009 ,		6
23	Visual attention modelling for subjective image quality databases 2009 ,		19
22	On the ergodic capacity of cooperative spatial multiplexing systems in composite channels 2009 ,		8
21	Autocorrelation analysis for reduced-reference mobile video quality assessment 2009 ,		1
20	On the performance of selection decode-and-forward relay networks over Nakagami-m fading channels. <i>IEEE Communications Letters</i> , 2009 , 13, 172-174	3.8	133
19	2009 ,		3
18	Optimal region-of-interest based visual quality assessment 2009 ,		3
17	Error sensitivity analysis for wireless JPEG2000 using perceptual quality metrics 2008 ,		1
16	On integrated radar and communication systems using Oppermann sequences 2008 ,		42
15	Autocorrelation analysis of spatial features for mobile video services 2008 ,		2
14	Pareto optimal weighting of structural impairments for wireless imaging quality assessment 2008 ,		4
13	On the performance of ROI-based image transmission using cooperative diversity 2008 ,		4

12	Performance Assessment of Polyphase Pulse Compression Codes 2008 ,		7
11	Average symbol error rate of cooperative spatial multiplexing in composite channels 2008 ,		4
10	APP decoding of non-binary block codes on Gilbert-Elliott channels using generalized weight polynomials 2008 ,		1
9	Regional attention to structural degradations for perceptual image quality metric design. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	14
8	Quality Evaluation in Wireless Imaging Using Feature-Based Objective Metrics 2007 ,		7
7	An Artificial Neural Network for Quality Assessment in Wireless Imaging Based on Extraction of Structural Information 2007 ,		5
6	Perceptual-based Quality Metrics for Image and Video Services: A Survey 2007 ,		41
5	Spreading Code Design Using a Global Optimization Method. <i>Annals of Operations Research</i> , 2005 , 133, 249-264	3.2	0
4	A forward-only recursion algorithm for MAP decoding of linear block codes. <i>International Journal of Adaptive Control and Signal Processing</i> , 2002 , 16, 577-588	2.8	2
3	Replication Strategies for Video On-Demand over Wireless Mesh Networks 349-375		
2	Cross-Layer Design for Packet Data Transmission in Maximum Ratio Transmission Systems with Imperfect CSI and Co-Channel Interference 376-399		
1	Performance Assessment of OTFS Modulation in High Doppler Airborne Communication Networks. <i>Mobile Networks and Applications</i> , 1	2.9	0