

# Hans Jrgen D Zepernick

## List of Publications by Citations

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137  
papers

1,573  
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19  
h-index

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g-index

201  
ext. papers

1,948  
ext. citations

2.8  
avg, IF

4.98  
L-index

#	Paper	IF	Citations
137	On the performance of selection decode-and-forward relay networks over Nakagami-m fading channels. <i>IEEE Communications Letters</i> , <b>2009</b> , 13, 172-174	3.8	133
136	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2010</b> , 59, 2735-2747	6.8	109
135	. <i>IEEE Signal Processing Magazine</i> , <b>2011</b> , 28, 50-59	9.4	95
134	Exact outage probability of cognitive AF relaying with underlay spectrum sharing. <i>Electronics Letters</i> , <b>2011</b> , 47, 1001	1.1	88
133	No-reference image and video quality assessment: a classification and review of recent approaches. <i>Eurasip Journal on Image and Video Processing</i> , <b>2014</b> , 2014,	2.5	74
132	Reduced-reference metric design for objective perceptual quality assessment in wireless imaging. <i>Signal Processing: Image Communication</i> , <b>2009</b> , 24, 525-547	2.8	59
131	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2011</b> , 60, 882-889	6.8	45
130	Cooperative spectrum sharing networks with AF relay and selection diversity. <i>Electronics Letters</i> , <b>2011</b> , 47, 1149	1.1	43
129	On integrated radar and communication systems using Oppermann sequences <b>2008</b> ,		42
128	On the Performance Gain of Hybrid Decode-Amplify-Forward Cooperative Communications. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2009</b> , 2009,	3.2	41
127	Perceptual-based Quality Metrics for Image and Video Services: A Survey <b>2007</b> ,		41
126	. <i>IEEE Transactions on Communications</i> , <b>2014</b> , 62, 2183-2197	6.9	40
125	Beamforming Amplify-and-Forward Relay Networks With Feedback Delay and Interference. <i>IEEE Signal Processing Letters</i> , <b>2012</b> , 19, 16-19	3.2	32
124	Effect of primary network on performance of spectrum sharing AF relaying. <i>Electronics Letters</i> , <b>2012</b> , 48, 25	1.1	32
123	Performance of a Non-Orthogonal Multiple Access System With Full-Duplex Relaying. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 2084-2087	3.8	29
122	Comparative study of fixation density maps. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 1121-33	8.7	25
121	On the Performance of Underlay Cognitive Radio Networks Using M/G/1/K Queueing Model. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 876-879	3.8	24

120	Modelling saliency awareness for objective video quality assessment <b>2010</b> ,		21
119	Test Functions for Global Optimization: A Comprehensive Survey <b>2013</b> , 193-222		19
118	Visual attention modelling for subjective image quality databases <b>2009</b> ,		19
117	Low Flights and Global Optimization <b>2013</b> , 49-72		18
116	Hybrid Decode-Amplify-Forward Cooperative Communications with Multiple Relays <b>2009</b> ,		18
115	Dynamic Spectrum Access for Cognitive Radio Networks With Prioritized Traffics. <i>IEEE Communications Letters</i> , <b>2014</b> , 18, 1218-1221	3.8	17
114	Wireless information and power transfer in an underlay cognitive radio network <b>2014</b> ,		16
113	Proactive attack: A strategy for legitimate eavesdropping <b>2016</b> ,		15
112	Delay performance of cognitive radio networks for point-to-point and point-to-multipoint communications. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2012</b> , 2012,	3.2	14
111	Linking distortion perception and visual saliency in H.264/AVC coded video containing packet loss <b>2010</b> ,		14
110	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> , <b>2008</b> ,	1.6	14
109	Cognitive Proactive and Reactive DF Relaying Schemes under Joint Outage and Peak Transmit Power Constraints. <i>IEEE Communications Letters</i> , <b>2013</b> , 17, 1548-1551	3.8	13
108	Optimal Power Allocation for Hybrid Cognitive Cooperative Radio Networks With Imperfect Spectrum Sensing. <i>IEEE Access</i> , <b>2018</b> , 6, 10365-10380	3.5	12
107	A Cross-Layer Optimized Scheme and Its Application in Mobile Multimedia Networks With QoS Provision. <i>IEEE Systems Journal</i> , <b>2016</b> , 10, 817-830	4.3	12
106	Opportunistic relaying for cognitive network with multiple primary users over Nakagami-m fading <b>2013</b> ,		12
105	Impact of primary networks on the performance of secondary networks <b>2013</b> ,		12
104	OSTBC Transmission in MIMO AF Relay Systems with Keyhole and Spatial Correlation Effects <b>2011</b> ,		12
103	<b>2009</b> ,		12

102	Impact of interference power constraint on multi-hop cognitive amplify-and-forward relay networks over Nakagami-m fading. <i>IET Communications</i> , <b>2013</b> , 7, 860-866	1.3	11
101	<b>2014</b> ,		11
100	Average waiting time of packets with different priorities in cognitive radio networks <b>2010</b> ,		11
99	Performance Optimization for Hybrid Two-Way Cognitive Cooperative Radio Networks With Imperfect Spectrum Sensing. <i>IEEE Access</i> , <b>2018</b> , 6, 70582-70596	3.5	11
98	Outage probability and secrecy capacity of a non-orthogonal multiple access system <b>2017</b> ,		10
97	. <i>IEEE Transactions on Communications</i> , <b>2012</b> , 60, 3683-3693	6.9	9
96	Packet transmission time for cognitive radio networks considering interference from primary user <b>2013</b> ,		9
95	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2015</b> , 64, 566-579	6.8	8
94	On the ergodic capacity of cooperative spatial multiplexing systems in composite channels <b>2009</b> ,		8
93	On physical layer security for reactive DF cognitive relay networks <b>2014</b> ,		7
92	Analysing inter-observer saliency variations in task-free viewing of natural images <b>2010</b> ,		7
91	Fusion of digital map traffic signs and camera-detected signs <b>2011</b> ,		7
90	Performance Assessment of Polyphase Pulse Compression Codes <b>2008</b> ,		7
89	Quality Evaluation in Wireless Imaging Using Feature-Based Objective Metrics <b>2007</b> ,		7
88	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> , <b>2013</b> , 7, 279-285	1.3	6
87	On physical layer security for cognitive radio networks with primary user interference <b>2015</b> ,		6
86	Human observer confidence in image quality assessment. <i>Signal Processing: Image Communication</i> , <b>2012</b> , 27, 935-947	2.8	6
85	Performance analysis of cooperative spatial multiplexing with amplify-and-forward relays <b>2009</b> ,		6

84	Adaptive modulation and coding with queue awareness in cognitive incremental decode-and-forward relay networks <b>2014</b> ,		5
83	A Framework for Packet Delay Analysis of Point-to-Multipoint Underlay Cognitive Radio Networks. <i>IEEE Transactions on Mobile Computing</i> , <b>2017</b> , 16, 2408-2421	4.6	5
82	Beamforming in two-way fixed gain amplify-and-forward relay systems with CCI <b>2012</b> ,		5
81	Performance of a spectrum sharing system over Nakagami-m fading channels <b>2010</b> ,		5
80	QoE-based Cross-Layer Design of Mobile Video Systems: Challenges and Concepts <b>2009</b> ,		5
79	Cross-Layer Design for Video Replication Strategy over Multihop Wireless Networks <b>2011</b> ,		5
78	An Artificial Neural Network for Quality Assessment in Wireless Imaging Based on Extraction of Structural Information <b>2007</b> ,		5
77	On Capacity of Full-Duplex Cognitive Cooperative Radio Networks with Optimal Power Allocation <b>2017</b> ,		4
76	Channel reservation for dynamic spectrum access of cognitive radio networks with prioritized traffic <b>2015</b> ,		4
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> , <b>2012</b> , 2012,	3.2	4
74	Outage performance of cognitive radio networks under outage constraint of multiple primary users and transmit power constraint of secondary user <b>2013</b> ,		4
73	On the performance of cognitive radio networks with DF relay assistance under primary outage constraint using SC and MRC <b>2013</b> ,		4
72	Beamforming transmission in cognitive AF relay networks with feedback delay <b>2013</b> ,		4
71	Achievable secrecy capacity in an underlay cognitive radio network <b>2014</b> ,		4
70	Distributed space-time coding in two-way fixed gain relay networks over Nakagami-m fading <b>2012</b> ,		4
69	MIMO Incremental AF Relay Networks with TAS/MRC and Adaptive Modulation <b>2013</b> ,		4
68	<b>2010</b> ,		4
67	Performance of cognitive radio networks with maximal ratio combining over correlated Rayleigh fading <b>2010</b> ,		4

66	Psychophysical assessment of perceived interest in natural images: The ROI-D database <b>2011,</b>		4
65	MRT/MRC for cognitive AF relay networks under feedback delay and channel estimation error <b>2012</b> ,		4
64	Pareto optimalweighting of structural impairments for wireless imaging quality assessment <b>2008,</b>		4
63	On the performance of ROI-based image transmission using cooperative diversity <b>2008,</b>		4
62	Average symbol error rate of cooperative spatial multiplexing in composite channels <b>2008,</b>		4
61	Network-Induced Temporal Disturbances in Virtual Reality Applications <b>2019,</b>		3
60	Performance analysis of MIMO cognitive amplify-and-forward relay networks with orthogonal space-time block codes. <i>Wireless Communications and Mobile Computing</i> , <b>2015</b> , 15, 1659-1679	1.9	3
59	On proactive attacks for coping with cooperative attacks in relay networks <b>2017,</b>		3
58	Hybrid spectrum access with relay assisting both primary and secondary networks under imperfect spectrum sensing. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2016</b> , 2016,	3.2	3
57	Outage probability and ergodic capacity of underlay cognitive radio systems with adaptive power transmission <b>2013,</b>		3
56	Performance analysis of opportunistic scheduling with HARQ for cognitive radio networks <b>2015,</b>		3
55	Cross-Layer Design for MRT Systems with Channel Estimation Error and Feedback Delay. <i>Wireless Personal Communications</i> , <b>2011</b> , 58, 681-694	1.9	3
54	Cross-Layer Design for Integrated Mobile Multimedia Networks with Strict Priority Traffic <b>2010,</b>		3
53	Full-rate distributed space-time coding for bi-directional cooperative communications <b>2010,</b>		3
52	Queuing analysis for cognitive radio networks under peak interference power constraint <b>2011,</b>		3
51	Outage probability and ergodic capacity for MIMO-MRT systems under co-channel interference and imperfect CSI <b>2011,</b>		3
50	Amplify-and-forward relay assisting both primary and secondary transmissions in cognitive radio networks over Nakagami-m fading <b>2012,</b>		3
49	<b>2009,</b>		3

48	Optimal region-of-interest based visual quality assessment <b>2009</b> ,		3
47	Ergodic capacity of multiuser scheduling in cognitive radio networks: analysis and comparison. <i>Wireless Communications and Mobile Computing</i> , <b>2016</b> , 16, 2759-2774	1.9	3
46	Evaluation of Simulator Sickness for 360° Videos on an HMD Subject to Participants Experience with Virtual Reality <b>2020</b> ,		2
45	Outage probability of MIMO cognitive cooperative radio networks with multiple AF relays using orthogonal space-time block codes <b>2017</b> ,		2
44	Distributed orthogonal space-time block coding in wireless relay networks. <i>IET Communications</i> , <b>2013</b> , 7, 1825-1835	1.3	2
43	A framework for error protection of region of interest coded images and videos. <i>Signal Processing: Image Communication</i> , <b>2011</b> , 26, 236-249	2.8	2
42	Error protection for wireless imaging: Providing a trade-off between performance and complexity <b>2010</b> ,		2
41	<b>2010</b> ,		2
40	Perceptual-based quality assessment of error protection schemes for wireless JPEG2000 <b>2009</b> ,		2
39	Autocorrelation analysis of spatial features for mobile video services <b>2008</b> ,		2
38	A forward-only recursion algorithm for MAP decoding of linear block codes. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2002</b> , 16, 577-588	2.8	2
37	Outage probability of a cognitive cooperative relay network with multiple primary users under primary outage constraint <b>2016</b> ,		2
36	Quality of experience of digital multimedia broadcasting services: An experimental study <b>2016</b> ,		2
35	Performance of MIMO MRT-MRC Systems with Antenna Grouping and Interference Cancellation <b>2021</b> ,		2
34	<b>2017</b> ,		1
33	Cognitive cooperative networks with decode-and-forward relay selection under interference constraints of multiple primary users. <i>Wireless Communications and Mobile Computing</i> , <b>2015</b> , 15, 1433-1443	1.9	1
32	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> , <b>2016</b> , 13, 122-131	0.6	1
31	Delay analysis for cognitive ad hoc networks using multi-channel medium access control. <i>IET Communications</i> , <b>2014</b> , 8, 1083-1093	1.3	1

30	Symbol error probability and effective capacity of an underlay CRN over $\alpha$ -fading channels <b>2015</b> ,		1
29	Cognitive MIMO AF relay network with TAS/MRC under peak interference power constraint <b>2013</b> ,		1
28	SER of Amplify-and-Forward Cooperative Networks with OSTBC Transmission in Nakagami-m Fading <b>2011</b> ,		1
27	Multi-Keyhole Effect in MIMO AF Relay Downlink Transmission with Space-Time Block Codes <b>2011</b> ,		1
26	Waveform Optimization for Integrated Radar and Communication Systems Using Meta-Heuristic Algorithms. <i>Studies in Computational Intelligence</i> , <b>2011</b> , 183-203	0.8	1
25	End-to-end performance of randomized distributed space-time codes <b>2010</b> ,		1
24	Average sum-rate of distributed Alamouti space-time scheme in two-way amplify-and-forward relay networks <b>2010</b> ,		1
23	Call quality monitoring for VoIP <b>2011</b> ,		1
22	Outage performance for opportunistic decode-and-forward relaying coded cooperation networks over Nakagami-m fading <b>2011</b> ,		1
21	Real-time unequal error protection for wireless imaging <b>2011</b> ,		1
20	MIMO cooperative multiple-relay networks with OSTBCs over Nakagami-m fading <b>2012</b> ,		1
19	Autocorrelation analysis for reduced-reference mobile video quality assessment <b>2009</b> ,		1
18	Error sensitivity analysis for wireless JPEG2000 using perceptual quality metrics <b>2008</b> ,		1
17	APP decoding of non-binary block codes on Gilbert-Elliott channels using generalized weight polynomials <b>2008</b> ,		1
16	Synthesizing Cross-Ambiguity Functions Using the Improved Bat Algorithm. <i>Studies in Computational Intelligence</i> , <b>2015</b> , 179-202	0.8	1
15	On the Effect of Standing and Seated Viewing of 360° Videos on Subjective Quality Assessment <b>2020</b> ,		1
14	On the Effect of Standing and Seated Viewing of 360° Videos on Subjective Quality Assessment: A Pilot Study. <i>Computers</i> , <b>2021</b> , 10, 80	1.9	1
13	Annotated 360-Degree Image and Video Databases: A Comprehensive Survey <b>2019</b> ,		1



12	Performance Analysis of an Adaptive Rate Scheme for QoE-Assured Mobile VR Video Streaming. <i>Computers</i> , <b>2022</b> , 11, 69	1.9	1
11	. <i>IEEE Access</i> , <b>2019</b> , 7, 154424-154434	3.5	0
10	Spreading Code Design Using a Global Optimization Method. <i>Annals of Operations Research</i> , <b>2005</b> , 133, 249-264	3.2	0
9	Viewing Direction Based LSB Data Hiding in 360° Videos. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 1527	2.6	0
8	Performance Assessment of OTFS Modulation in High Doppler Airborne Communication Networks. <i>Mobile Networks and Applications</i> , 1	2.9	0
7	Multimodal Function Optimization Using an Improved Bat Algorithm in Noise-Free and Noisy Environments. <i>Modeling and Optimization in Science and Technologies</i> , <b>2017</b> , 29-49	0.6	
6	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> , <b>2015</b> , 15, 56-70	1.9	
5	. <i>IEEE Transactions on Information Theory</i> , <b>2009</b> , 55, 3847-3857	2.8	
4	Video Freeze Assessment of TPCAST Wireless Virtual Reality: An Experimental Study. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1733	2.6	
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 Analysis of Decouple-and-Forward MIMO Relaying in Nakagami-m Fading. <i>IEICE Transactions on Communications</i> , <b>2012</b> , E95.B, 3003-3006	0.5	