

# Luc Vandendorpe

## List of Publications by Year in descending order

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101  
papers

1,908  
citations

257357

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all docs

101  
docs citations

101  
times ranked

1682  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Synchronization Based Localization of a Time-Misaligned Transmitter in Cellular Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 4102-4115.	3.9	1
2	Energy Efficiency of Angle of Arrival Estimation in Massive MIMO Systems. IEEE Transactions on Communications, 2022, 70, 4175-4188.	4.9	1
3	On Joint Cooperative Relaying, Resource Allocation, and Scheduling for Mobile Edge Computing Networks. IEEE Transactions on Communications, 2022, 70, 5882-5897.	4.9	6
4	Interference Management for $K$ -Tier Networks Without CSIT Based on Reconfigurable Antennas. IEEE Transactions on Communications, 2021, 69, 8068-8084.	4.9	2
5	Leveraging User-Diversity in Energy-Efficient Edge-Facilitated Collaborative Fog Computing. IEEE Access, 2021, 9, 95636-95650.	2.6	1
6	Iterative ToA-Based Localization of Wireless Transmitters Using Dirichlet-Kernel-Based Range Representation. , 2021, , .		1
7	Online Power Allocation at Energy Harvesting Transmitter for Multiple Receivers With and Without Individual Rate Constraints for OMA and NOMA Transmissions. IEEE Transactions on Green Communications and Networking, 2021, 5, 1594-1609.	3.5	2
8	An Energy-Efficient Fine-Grained Deep Neural Network Partitioning Scheme for Wireless Collaborative Fog Computing. IEEE Access, 2021, 9, 79611-79627.	2.6	16
9	Analysis of CRLB for AoA estimation in Massive MIMO systems. , 2021, , .		2
10	Rate Maximizing Online Power Allocation at Energy Harvesting Transmitter for Multiple Receivers. , 2020, , .		4
11	An Ultra-Low Power Ultra-Wide Bandwidth Positioning System. IEEE Journal of Radio Frequency Identification, 2020, 4, 353-364.	1.5	12
12	Weighted Sum-SINR and Fairness Optimization for SWIPT-Multigroup Multicasting Systems With Heterogeneous Users. IEEE Open Journal of the Communications Society, 2020, 1, 1470-1484.	4.4	5
13	Low-Complexity LMMSE-SIC Turbo Receiver for Continuous Phase Modulation, Based on a Multiaccess-Multipath Analogy. IEEE Transactions on Communications, 2020, 68, 7672-7686.	4.9	5
14	Clustering and Power Optimization for NOMA Multi-Objective Problems. , 2020, , .		0
15	(\$ell_1, ell_2\$)-RIP and Projected Back-Projection Reconstruction for Phase-Only Measurements. IEEE Signal Processing Letters, 2020, 27, 396-400.	2.1	4
16	Energy-Saving UAV-Assisted Multiuser Communications With Massive MIMO Hybrid Beamforming. IEEE Communications Letters, 2020, 24, 1100-1104.	2.5	22
17	On the Performance of SWIPT MEC Systems in the Presence of Spatially Correlated Shadowing. , 2020, , .		0
18	Pilot Contamination Mitigation for Wideband Massive MIMO Systems. IEEE Transactions on Communications, 2019, 67, 7889-7906.	4.9	7

#	ARTICLE	IF	CITATIONS
19	Weighted Spectral Efficiency Optimization for Hybrid Beamforming in Multiuser Massive MIMO-OFDM Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 9698-9712.	3.9	21
20	Degrees of Freedom of 2-Tier Networks Without Channel State Information at the Transmitter. IEEE Signal Processing Letters, 2019, 26, 382-386.	2.1	3
21	Energy-Efficient Edge-Facilitated Wireless Collaborative Computing using Map-Reduce. , 2019, , .		3
22	On the Effect of Blockage Objects in Dense MIMO SWIPT Networks. IEEE Transactions on Communications, 2019, 67, 1059-1069.	4.9	4
23	Aligning the Light Without Channel State Information for Visible Light Communications. IEEE Journal on Selected Areas in Communications, 2018, 36, 91-105.	9.7	20
24	Hybrid Beamforming Design for Multiuser Massive MIMO-OFDM Systems. , 2018, , .		8
25	A Multiple-Relay Communication Protocol for Achieving Fairness in Dense Networks. IEEE Access, 2018, 6, 6740-6754.	2.6	1
26	Power Allocation for Energy Efficient Multiple Antenna Systems with Joint Total and Per-Antenna Power Constraints. IEEE Transactions on Communications, 2018, , 1-1.	4.9	8
27	Can the Use of Reconfigurable Antennas Overcome the CSI Bottleneck for FDD Massive MIMO?. , 2017, , .		1
28	Distributed Dynamic Resource Allocation for Cooperative Cognitive Radio Networks With Multi-Antenna Relay Selection. IEEE Transactions on Wireless Communications, 2017, 16, 1236-1249.	6.1	19
29	Localization of Rotating Targets Using a Monochromatic Continuous-Wave Radar. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2598-2601.	2.4	0
30	Multipath Multiplexing for Capacity Enhancement in SIMO Wireless Systems. IEEE Transactions on Wireless Communications, 2017, 16, 6895-6911.	6.1	8
31	Antenna Selection for Energy Efficient MISO Systems. IEEE Communications Letters, 2017, 21, 2758-2761.	2.5	13
32	Resource allocation and subcarrier pairing in energy efficient relay-assisted OFDMA downlink systems. , 2017, , .		3
33	Energy efficient power allocation and relay selection in MIMO relay channels. , 2016, , .		2
34	Resource Allocation via Maxâ€“Min Goodput Optimization for BIC-OFDMA Systems. IEEE Transactions on Communications, 2016, 64, 2412-2426.	4.9	4
35	Optimal precoder design for MIMO-OFDM: Understanding the role of power amplifiers and nonlinear distortion noise. , 2016, , .		1
36	Subcarrier Allocation and Precoder Design for Energy Efficient MIMO-OFDMA Downlink Systems. IEEE Transactions on Communications, 2016, , 1-1.	4.9	11

#	ARTICLE	IF	CITATIONS
37	A blind interference alignment scheme for practical channels. , 2016, , .		6
38	Energy efficient resource allocation in MIMO-OFDMA downlink systems. , 2016, , .		1
39	On the Number of RF Chains and Phase Shifters, and Scheduling Design With Hybrid Analog&#x201c;Digital Beamforming. IEEE Transactions on Wireless Communications, 2016, 15, 3311-3326.	6.1	187
40	Energy efficient precoder design for MIMO-OFDM with rate-dependent circuit power. , 2015, , .		10
41	Accurate modeling of the predicted $\hat{\rho}$ ESM-based link performance metric for BIC-OFDM systems. , 2015, , .		0
42	Wide-Band Sensing and Optimization for Cognitive Radio Networks With Noise Variance Uncertainty. IEEE Transactions on Communications, 2015, 63, 1091-1105.	4.9	24
43	Power Control in Networks With Heterogeneous Users: A Quasi-Variational Inequality Approach. IEEE Transactions on Signal Processing, 2015, 63, 5691-5705.	3.2	22
44	Goodput-maximizing resource allocation in cognitive Radio BIC-OFDM systems with DF relay selection. , 2015, , .		2
45	Compute-and-Forward on a Multi-User Multi-Relay Channel. IEEE Wireless Communications Letters, 2014, 3, 589-592.	3.2	10
46	Resource allocation for multicarrier cooperative cognitive radio networks with imperfect channel state information. , 2014, , .		4
47	Max-Min SNR Signal Energy Based Spectrum Sensing Algorithms for Cognitive Radio Networks with Noise Variance Uncertainty. IEEE Transactions on Wireless Communications, 2014, 13, 280-290.	6.1	37
48	Compute-and-Forward on a Multiaccess Relay Channel: Coding and Symmetric-Rate Optimization. IEEE Transactions on Wireless Communications, 2014, 13, 1932-1947.	6.1	31
49	Statistics of the MLE and Approximate Upper and Lower Bounds&#x2014;Part I: Application to TOA Estimation. IEEE Transactions on Signal Processing, 2014, 62, 5663-5676.	3.2	15
50	Statistics of the MLE and Approximate Upper and Lower Bounds&#x2014;Part II: Threshold Computation and Optimal Pulse Design for TOA Estimation. IEEE Transactions on Signal Processing, 2014, 62, 5677-5689.	3.2	3
51	On the Optimum Energy Efficiency for Flat-Fading Channels with Rate-dependent Circuit Power. IEEE Transactions on Communications, 2013, 61, 4910-4921.	4.9	34
52	Linear Transceiver Design for Downlink Multiuser MIMO Systems: Downlink-Interference Duality Approach. IEEE Transactions on Signal Processing, 2013, 61, 4686-4700.	3.2	5
53	Secure Degrees of Freedom of MIMO X-Channels With Output Feedback and Delayed CSIT. IEEE Transactions on Information Forensics and Security, 2013, 8, 1760-1774.	4.5	37
54	Weighted Sum Rate Maximization for Downlink OFDMA With Subcarrier-Pair Based Opportunistic DF Relaying. IEEE Transactions on Signal Processing, 2013, 61, 2512-2524.	3.2	31

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55	Power Minimization for OFDM Transmission with Subcarrier-Pair Based Opportunistic DF Relaying. IEEE Communications Letters, 2013, 17, 471-474.	2.5	29
56	Goodput-Based Link Resource Adaptation for Reliable Packet Transmissions in BIC-OFDM Cognitive Radio Networks. IEEE Transactions on Signal Processing, 2013, 61, 2267-2281.	3.2	6
57	Outage Probability and Energy Efficiency of Cooperative MIMO with Antenna Selection. IEEE Transactions on Wireless Communications, 2013, 12, 5896-5907.	6.1	34
58	Link Resource Adaptation for Multiantenna Bit-Interleaved Coded Multicarrier Systems. IEEE Transactions on Signal Processing, 2012, 60, 3644-3656.	3.2	23
59	Local CSI Based Selection Beamforming for Amplify-and-Forward MIMO Relay Networks. IEEE Transactions on Signal Processing, 2012, 60, 2433-2446.	3.2	12
60	Weighted Sum Rate Optimization for Downlink Multiuser MIMO Coordinated Base Station Systems: Centralized and Distributed Algorithms. IEEE Transactions on Signal Processing, 2012, 60, 1876-1889.	3.2	60
61	On the SCALE Algorithm for Multiuser Multicarrier Power Spectrum Management. IEEE Transactions on Signal Processing, 2012, 60, 4992-4998.	3.2	65
62	Power Constrained Linear Estimation in Wireless Sensor Networks With Correlated Data and Digital Modulation. IEEE Transactions on Signal Processing, 2012, 60, 570-584.	3.2	36
63	Secure Communication Over Parallel Relay Channel. IEEE Transactions on Information Forensics and Security, 2012, 7, 359-371.	4.5	32
64	WSR Maximized Resource Allocation in Multiple DF Relays Aided OFDMA Downlink Transmission. IEEE Transactions on Signal Processing, 2011, 59, 3964-3976.	3.2	36
65	Iterative Resource Allocation for Maximizing Weighted Sum Min-Rate in Downlink Cellular OFDMA Systems. IEEE Transactions on Signal Processing, 2011, 59, 223-234.	3.2	148
66	Robust Transceiver Optimization for Downlink Multiuser MIMO Systems. IEEE Transactions on Signal Processing, 2011, 59, 446-453.	3.2	42
67	Sum Rate Maximized Resource Allocation in Multiple DF Relays Aided OFDM Transmission. IEEE Journal on Selected Areas in Communications, 2011, 29, 1559-1571.	9.7	48
68	Impact of Variable Length Codes on the Interleaving Gain of Turbo Systems: The Concept of Bounded Spectrum. IEEE Transactions on Communications, 2011, 59, 1796-1806.	4.9	2
69	Performance Bounds and Distance Spectra of Variable Length Codes in Turbo/Concatenated Systems. IEEE Transactions on Communications, 2010, 58, 2537-2548.	4.9	2
70	Cooperative Relaying With State Available Noncausally at the Relay. IEEE Transactions on Information Theory, 2010, 56, 2272-2298.	1.5	57
71	An ultra-low-power frequency-tunable UWB pulse generator using 65nm CMOS technology. , 2010, , .		3
72	On Signal-to-Noise Ratio-Assisted Crosstalk Channel Estimation in Downstream DSL Systems. IEEE Transactions on Signal Processing, 2010, 58, 2327-2338.	3.2	7

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73	Code-Aided Maximum-Likelihood Ambiguity Resolution Through Free-Energy Minimization. IEEE Transactions on Signal Processing, 2010, 58, 6238-6250.	3.2	5
74	Optimization of MIMO Relays for Multipoint-to-Multipoint Communications: Nonrobust and Robust Designs. IEEE Transactions on Signal Processing, 2010, 58, 6355-6368.	3.2	77
75	Coding Schemes for Relay-Assisted Information Embedding. IEEE Transactions on Information Forensics and Security, 2009, 4, 70-85.	4.5	20
76	MIMO Relay Design for Multipoint-to-Multipoint Communications With Imperfect Channel State Information. IEEE Transactions on Signal Processing, 2009, 57, 2785-2796.	3.2	123
77	Performance analysis of linear receivers in a MIMO relaying system. IEEE Communications Letters, 2009, 13, 330-332.	2.5	11
78	Bit rate comparison of adaptive OFDM and cyclic prefixed single-carrier with DFE. IEEE Communications Letters, 2009, 13, 838-840.	2.5	9
79	Joint source-channel codes based on irregular turbo codes and variable length codes. IEEE Transactions on Communications, 2008, 56, 1824-1835.	4.9	9
80	A Blind Equalization Algorithm Based on Minimization of Normalized Variance for DS/CDMA Communications. IEEE Transactions on Vehicular Technology, 2008, 57, 3453-3461.	3.9	17
81	About the diversity in cyclic prefixed single-carrier systems. Physical Communication, 2008, 1, 266-276.	1.2	25
82	A Cram�r-Rao Bound Characterization of the EM-Algorithm Mean Speed of Convergence. IEEE Transactions on Signal Processing, 2008, 56, 2218-2228.	3.2	4
83	Bit and Power Allocation for Goodput Optimization in Coded Parallel Subchannels With ARQ. IEEE Transactions on Signal Processing, 2008, 56, 3652-3661.	3.2	36
84	MAP-Based Code-Aided Hypothesis Testing. IEEE Transactions on Wireless Communications, 2008, 7, 2856-2860.	6.1	5
85	A Theoretical Framework for Iterative Synchronization Based on the Sum-Product and the Expectation-Maximization Algorithms. IEEE Transactions on Signal Processing, 2007, 55, 1644-1658.	3.2	34
86	A Semi-Analytical Method for Predicting the Performance and Convergence Behavior of a Multiuser Turbo-Equalizer/Demapper. IEEE Transactions on Signal Processing, 2007, 55, 1104-1117.	3.2	17
87	Design and Performance of Space-Time Codes for Spatially Correlated MIMO Channels. IEEE Transactions on Communications, 2007, 55, 64-68.	4.9	10
88	Comparison of EM-Based Algorithms for MIMO Channel Estimation. IEEE Transactions on Communications, 2007, 55, 216-226.	4.9	51
89	On Maximum-Likelihood Timing Synchronization. IEEE Transactions on Communications, 2007, 55, 1116-1119.	4.9	25
90	Multiple classifier combination for face-based identity verification. Pattern Recognition, 2004, 37, 1459-1469.	5.1	33

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91	A comparison between chip fractional and non-fractional sampling for a direct sequence CDMA receiver. IEEE Transactions on Signal Processing, 2002, 50, 1713-1723.	3.2	3
92	Performances of linear tools and models for error detection and concealment in subband image transmission. IEEE Transactions on Image Processing, 2002, 11, 518-529.	6.0	7
93	Block error-correcting codes for systems with a very high BER: Theoretical analysis and application to the protection of watermarks. Signal Processing: Image Communication, 2002, 17, 409-421.	1.8	13
94	Image processing for multimedia terminals and related architectures. Signal Processing, 2000, 80, 1167-1183.	2.1	1
95	A Fractionally Spaced Decision Feedback Joint Detection Proposal for Multi Carrier CDMA. European Transactions on Telecommunications, 1999, 10, 407-416.	1.2	2
96	Image-based multimodal face authentication. Signal Processing, 1998, 69, 59-79.	2.1	24
97	Fractionally spaced linear and DF MIMO equalizers for multitone systems without guard time. Annales Des Telecommunications/Annals of Telecommunications, 1997, 52, 21-30.	1.6	5
98	Decision feedback multi-user detection for multitone CDMA. European Transactions on Telecommunications, 1997, 8, 67-78.	1.2	5
99	Hybrid slow frequency hopping/ direct sequence spread spectrum indoor communication systems with QPSK modulation. Annales Des Telecommunications/Annals of Telecommunications, 1994, 49, 518-526.	1.6	1
100	Human visual weighted quantization : a unified approach for subband and pyramidal image coders. Annales Des Telecommunications/Annals of Telecommunications, 1992, 47, 282-292.	1.6	5
101	Optimum quality and progressive resolution of video signals. Annales Des Telecommunications/Annals of Telecommunications, 1990, 45, 487-502.	1.6	9