

Pierluigi Salvo Rossi

List of Publications by Year in descending order

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95
papers

2,413
citations

186265

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214800

47
g-index

97
all docs

97
docs citations

97
times ranked

1933
citing authors

#	ARTICLE	IF	CITATIONS
1	Massive MIMO Channel-Aware Decision Fusion. IEEE Transactions on Signal Processing, 2015, 63, 604-619.	5.3	162
2	Sensor-Fault Detection, Isolation and Accommodation for Digital Twins via Modular Data-Driven Architecture. IEEE Sensors Journal, 2021, 21, 4827-4838.	4.7	143
3	Distributed detection of a non-cooperative target via generalized locally-optimum approaches. Information Fusion, 2017, 36, 261-274.	19.1	141
4	Generalized Rao Test for Decentralized Detection of an Uncooperative Target. IEEE Signal Processing Letters, 2017, 24, 678-682.	3.6	134
5	Massive MIMO for Decentralized Estimation of a Correlated Source. IEEE Transactions on Signal Processing, 2016, 64, 2499-2512.	5.3	113
6	Channel-Aware Decision Fusion in Distributed MIMO Wireless Sensor Networks: Decode-and-Fuse vs. Decode-then-Fuse. IEEE Transactions on Wireless Communications, 2012, , 1-10.	9.2	110
7	A Systematic Framework for Composite Hypothesis Testing of Independent Bernoulli Trials. IEEE Signal Processing Letters, 2015, 22, 1249-1253.	3.6	76
8	One-Bit Decentralized Detection With a Rao Test for Multisensor Fusion. IEEE Signal Processing Letters, 2013, 20, 861-864.	3.6	72
9	Internet traffic modeling by means of Hidden Markov Models. Computer Networks, 2008, 52, 2645-2662.	5.1	69
10	Multibit Decentralized Detection Through Fusing Smart and Dumb Sensors Based on Rao Test. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1391-1405.	4.7	69
11	Distributed Detection in Wireless Sensor Networks Under Multiplicative Fading via Generalized Score Tests. IEEE Internet of Things Journal, 2021, 8, 9059-9071.	8.7	68
12	Optimality of Received Energy in Decision Fusion Over Rayleigh Fading Diversity MAC With Non-Identical Sensors. IEEE Transactions on Signal Processing, 2013, 61, 22-27.	5.3	67
13	Quantizer Design for Generalized Locally Optimum Detectors in Wireless Sensor Networks. IEEE Wireless Communications Letters, 2018, 7, 162-165.	5.0	67
14	Orthogonality and Cooperation in Collaborative Spectrum Sensing through MIMO Decision Fusion. IEEE Transactions on Wireless Communications, 2013, 12, 5826-5836.	9.2	64
15	Decision Fusion With Unknown Sensor Detection Probability. IEEE Signal Processing Letters, 2014, 21, 208-212.	3.6	63
16	Noncolocated Time-Reversal MUSIC: High-SNR Distribution of Null Spectrum. IEEE Signal Processing Letters, 2017, 24, 397-401.	3.6	54
17	Classification of Network Traffic via Packet-Level Hidden Markov Models. , 2008, , .		52
18	Model predictive control for a multi-body slung-load system. Robotics and Autonomous Systems, 2017, 92, 1-11.	5.1	49

#	ARTICLE	IF	CITATIONS
19	Performance Analysis of Energy Detection for MIMO Decision Fusion in Wireless Sensor Networks Over Arbitrary Fading Channels. IEEE Transactions on Wireless Communications, 2016, 15, 7794-7806.	9.2	48
20	Joint end-to-end loss-delay hidden Markov model for periodic UDP traffic over the Internet. IEEE Transactions on Signal Processing, 2006, 54, 530-541.	5.3	46
21	Energy Detection for MIMO Decision Fusion in Underwater Sensor Networks. IEEE Sensors Journal, 2015, 15, 1630-1640.	4.7	43
22	HMM-Based Decision Fusion in Wireless Sensor Networks With Noncoherent Multiple Access. IEEE Communications Letters, 2015, 19, 871-874.	4.1	42
23	Slepian-Based Two-Dimensional Estimation of Time-Frequency Variant MIMO-OFDM Channels. IEEE Signal Processing Letters, 2008, 15, 21-24.	3.6	41
24	Performance Analysis and Design of Maximum Ratio Combining in Channel-Aware MIMO Decision Fusion. IEEE Transactions on Wireless Communications, 2013, 12, 4716-4728.	9.2	41
25	Joint Twofold-Iterative Channel Estimation and Multiuser Detection for MIMO-OFDM Systems. IEEE Transactions on Wireless Communications, 2008, 7, 4719-4729.	9.2	40
26	Wireless Sensor Networks for Detection and Localization of Subsea Oil Leakages. IEEE Sensors Journal, 2021, 21, 10890-10904.	4.7	38
27	On Energy Detection for MIMO Decision Fusion in Wireless Sensor Networks Over NLOS Fading. IEEE Communications Letters, 2015, 19, 303-306.	4.1	36
28	Bandwidth-Constrained Decentralized Detection of an Unknown Vector Signal via Multisensor Fusion. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 744-758.	2.8	35
29	Wideband Collaborative Spectrum Sensing Using Massive MIMO Decision Fusion. IEEE Transactions on Wireless Communications, 2020, 19, 5246-5260.	9.2	31
30	Time-Domain Oversampled OFDM Communication in Doubly-Selective Underwater Acoustic Channels. IEEE Communications Letters, 2015, 19, 1081-1084.	4.1	18
31	Multi-Bit & Sequential Decentralized Detection of a Noncooperative Moving Target Through a Generalized Rao Test. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 740-753.	2.8	18
32	Linear MMSE estimation of time-frequency variant channels for MIMO-OFDM systems. Signal Processing, 2011, 91, 1157-1167.	3.7	17
33	A Dominance-Based Soft-Input Soft-Output MIMO Detector With Near-Optimal Performance. IEEE Transactions on Communications, 2014, 62, 4320-4335.	7.8	17
34	Low-complexity dominance-based sphere decoder for MIMO systems. Signal Processing, 2013, 93, 2500-2509.	3.7	16
35	Virtual MIMO Wireless Sensor Networks: Propagation Measurements and Fusion Performance. IEEE Transactions on Antennas and Propagation, 2019, 67, 5555-5568.	5.1	16
36	DECHADE: DEtecting slight CHanges with HARd DEcisions in Wireless Sensor Networks. International Journal of General Systems, 2018, 47, 535-548.	2.5	15

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37	Generalized Locally Most Powerful Tests for Distributed Sparse Signal Detection. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 528-542.	2.8	14
38	End-to-end packet-channel Bayesian model applied to heterogeneous wireless networks. , 2005, , .		13
39	Joint Iterative Time-Variant Channel Estimation and Multi-User Detection for MIMO-OFDM Systems. , 2007, , .		13
40	ME-SSA: An advanced random access for the satellite return channel. , 2015, , .		13
41	IoT-Enabled Distributed Detection of a Nuclear Radioactive Source via Generalized Score Tests. Communications in Computer and Information Science, 2019, , 77-91.	0.5	13
42	Feature Selection Based on Principal Component Regression for Underwater Source Localization by Deep Learning. Remote Sensing, 2021, 13, 1486.	4.0	11
43	QRP07-2: An HMM Approach to Internet Traffic Modeling. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	10
44	Massive MIMO meets decision fusion: Decode-and-fuse vs. decode-then-fuse. , 2014, , .		10
45	Multi-bit Decentralized Detection of a Non-cooperative Moving Target Through a Generalized Rao Test. , 2020, , .		10
46	Power Randomization for Iterative Detection Over Random-Access Fading Channels. IEEE Transactions on Wireless Communications, 2015, 14, 5704-5713.	9.2	8
47	Multi-bit Decentralized Detection of a Weak Signal in Wireless Sensor Networks with a Rao test. , 2018, , .		8
48	A system engineering approach to subsea spill risk management. Safety Science, 2020, 123, 104560.	4.9	8
49	Massive MIMO for decentralized estimation over coherent multiple access channels. , 2015, , .		7
50	Experimental Analysis of Wideband Spectrum Sensing Networks Using Massive MIMO Testbed. IEEE Transactions on Communications, 2020, 68, 5390-5405.	7.8	7
51	Optimal correlating transform for erasure channels. IEEE Signal Processing Letters, 2005, 12, 677-680.	3.6	6
52	Distributed Linear Block Coding for Cooperative Wireless Communications. IEEE Signal Processing Letters, 2007, 14, 673-676.	3.6	6
53	Performance of an Iterative Multi-User Receiver for MIMO-OFDM Systems in a Real Indoor Scenario. , 2008, , .		6
54	A tree-search algorithm for ML decoding in underdetermined MIMO systems. , 2009, , .		6

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55	Model-based information fusion investigation on fault isolation of subsea systems considering the interaction among subsystems and sensors. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 67, 104267.	3.3	6
56	Tree-search ML detection for underdetermined MIMO systems with M-PSK constellations. , 2010, , .		5
57	Soft-Input Soft-Output King Decoder for coded MIMO wireless communications. , 2011, , .		5
58	On Throughput of MIMO-OFDM Systems with Joint Iterative Channel Estimation and Multiuser Detection under Different Multiple Access Schemes. <i>IEEE Communications Letters</i> , 2011, 15, 831-833.	4.1	5
59	Decision fusion in MIMO wireless sensor networks with channel state information. , 2012, , .		5
60	Tracking a Low-Angle Isolated Target via an Elevation-Angle Estimation Algorithm Based on Extended Kalman Filter with an Array Antenna. <i>Remote Sensing</i> , 2021, 13, 3938.	4.0	5
61	HMM-Based Monitoring of Packet Channels. <i>Lecture Notes in Computer Science</i> , 2004, , 144-154.	1.3	5
62	Spatio-Temporal Decision Fusion for Quickest Fault Detection Within Industrial Plants: The Oil and Gas Scenario. , 2021, , .		5
63	Time-Frequency Fused Underwater Acoustic Source Localization Based on Contrastive Predictive Coding. <i>IEEE Sensors Journal</i> , 2022, 22, 13299-13308.	4.7	5
64	Group gain design for overloaded CDMA. , 2007, , .		4
65	Achieving Full Diversity over the MIMO Fading Channel with Space-Time Precoders and Iterative Linear Receivers. <i>IEEE Transactions on Wireless Communications</i> , 2011, 10, 2407-2411.	9.2	4
66	Probability of outage due to self-interference in indoor wireless environments. <i>IEEE Communications Letters</i> , 2017, 21, 8-11.	4.1	4
67	Self-supervised Underwater Source Localization based on Contrastive Predictive Coding. , 2021, , .		4
68	Packet interleaving over lossy channels. , 0, , .		3
69	Slepian-Based Serial Estimation of Time-Frequency Variant Channels for MIMO-OFDM Systems. , 2009, , .		3
70	On the performance of cooperative systems with distributed linear block coding. <i>Physical Communication</i> , 2010, 3, 81-86.	2.1	3
71	Iterative MMSE receivers for multiuser MIMO cooperative systems. , 2010, , .		3
72	Iterative Multiuser Detection for Cooperative MIMO Systems over Quasi-Static Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , 2011, 10, 3638-3643.	9.2	3

#	ARTICLE	IF	CITATIONS
73	Energy detection for decision fusion in wireless sensor networks over Ricean-mixture fading. , 2014, , .		3
74	On the asymptotic distribution of Time-Reversal MUSIC null spectrum. , 2017, 69, 50-58.		3
75	Digital Moka: Small-Scale Condition Monitoring in Process Engineering. , 2021, 5, 1-4.		3
76	Bayesian Modelling for Packet Channels. Lecture Notes in Computer Science, 2003, , 218-225.	1.3	3
77	Distributed Detection of a Non-cooperative Target with Multiplicative Fading. Communications in Computer and Information Science, 2020, , 263-275.	0.5	3
78	Iterative Joint Channel Estimation and Multiuser Detection for Wireless MIMO-OFDM Systems: Performance in a Real Indoor Scenario. , 2007, , .		2
79	On Asymptotic Efficiency for Asynchronous CDMA. , 2007, , .		2
80	EXIT Chart Evaluation of a Receiver Structure for Multi-User Multi-Antenna OFDM Systems. , 2009, , .		2
81	Full-diversity iterative MMSE receivers with space-time precoders over block-fading MIMO channels. , 2010, , .		2
82	On the Performance of Energy-Division Multiple Access Over Fading Channels. Wireless Personal Communications, 2013, 68, 1351-1364.	2.7	2
83	Second-Order Statistics for Indoor Wireless Joint Fading/Shadowing Channels. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1569-1572.	4.0	2
84	Congestion control for UDP traffic. , 0, , .		1
85	A Scheme for Multiuser Communications based on Energy Division. , 2007, , .		1
86	On the performance of iterative receivers for interfering MIMO-OFDM systems in measured channels. , 2008, , .		1
87	Gain design and power allocation for overloaded MIMO-OFDM systems with channel state information and iterative multiuser detection. , 2011, , .		1
88	On the Performance of Energy-Division Multiple Access with Regular Constellations. Wireless Personal Communications, 2012, 64, 233-253.	2.7	1
89	DSP based OFDM receiver for time-varying underwater acoustic channels. , 2016, , .		1
90	Channel-Aware Decision Fusion with Rao Test for Multisensor Fusion. Communications in Computer and Information Science, 2021, , 267-277.	0.5	1

#	ARTICLE	IF	CITATIONS
91	Data Fusion for Subsea Oil Spill Detection Through Wireless Sensor Networks. , 2020, , .		1
92	Addressing the Importance of Data Veracity During Data Acquisition for Risk Assessment Processes. , 2021, , .		1
93	On time diversity for packet channels. Computer Communications, 2008, 31, 3307-3314.	5.1	0
94	EDMA-based schemes for cognitive radio systems with channel state information. Journal of High Speed Networks, 2014, 20, 145-152.	0.8	0
95	A 3D Decentralized Guidance and Control System for a Swarm of Multi-Copters. IFAC-PapersOnLine, 2017, 50, 5788-5793.	0.9	0