

# Leonardo Rey Vega

## List of Publications by Year in descending order

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g-index

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docs citations

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times ranked

543  
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Robust Variable Step-Size NLMS Algorithm. IEEE Transactions on Signal Processing, 2008, 56, 1878-1893.	5.3	164
2	Variable Explicit Regularization in Affine Projection Algorithm: Robustness Issues and Optimal Choice. IEEE Transactions on Signal Processing, 2007, 55, 2096-2109.	5.3	68
3	A Fast Robust Recursive Least-Squares Algorithm. IEEE Transactions on Signal Processing, 2009, 57, 1209-1216.	5.3	43
4	On Fundamental Trade-offs of Device-to-Device Communications in Large Wireless Networks. IEEE Transactions on Wireless Communications, 2015, 14, 4958-4971.	9.2	42
5	A robust variable step-size affine projection algorithm. Signal Processing, 2010, 90, 2806-2810.	3.7	41
6	A Novel Modular Positive-Sequence Synchrophasor Estimation Algorithm for PMUs. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1164-1175.	4.7	32
7	A Family of Robust Algorithms Exploiting Sparsity in Adaptive Filters. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 572-581.	3.2	23
8	On the Outage Probability of the Full-Duplex Interference-Limited Relay Channel. IEEE Journal on Selected Areas in Communications, 2014, 32, 1765-1777.	14.0	18
9	Optimal Resource Allocation for Detection of a Gaussian Process Using a MAC in WSNs. IEEE Transactions on Signal Processing, 2015, 63, 2057-2069.	5.3	14
10	Extreme Coverage in 5G Narrowband IoT: A LUT-Based Strategy to Optimize Shared Channels. IEEE Internet of Things Journal, 2020, 7, 2129-2136.	8.7	14
11	Analysis of a Cooperative Strategy for a Large Decentralized Wireless Network. IEEE/ACM Transactions on Networking, 2014, 22, 1039-1051.	3.8	13
12	Optimal Differentiator Filter Banks for PMUs and Their Feasibility Limits. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2948-2956.	4.7	13
13	An Adaptive Self-Interference Cancellation/Utilization and ICA-Assisted Semi-Blind Full-Duplex Relay System for LLHR IoT. IEEE Internet of Things Journal, 2020, 7, 2263-2276.	8.7	13
14	Toward URLLC: A Full Duplex Relay System with Self-Interference Utilization or Cancellation. IEEE Wireless Communications, 2021, 28, 74-81.	9.0	13
15	Cooperative strategies for interference-limited wireless networks. , 2011, , .		12
16	A Primer on Energy-Efficient Synchronization of WSN Nodes over Correlated Rayleigh Fading Channels. IEEE Wireless Communications Letters, 2014, 3, 38-41.	5.0	9
17	A stochastic geometry approach to distributed caching in large wireless networks. , 2014, , .		9
18	Online tracking of sub-transient generator model variables using dynamic phasor measurements. Electric Power Systems Research, 2020, 180, 106057.	3.6	9

#	ARTICLE	IF	CITATIONS
19	Collaborative Information Bottleneck. IEEE Transactions on Information Theory, 2019, 65, 787-815.	2.4	8
20	The Three-Terminal Interactive Lossy Source Coding Problem. IEEE Transactions on Information Theory, 2017, 63, 532-562.	2.4	7
21	Compression-Based Regularization With an Application to Multitask Learning. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1063-1076.	10.8	7
22	Cooperation versus interference in large wireless relay networks. , 2012, , .		6
23	A Closed-Form Approximation for the CDF of the Sum of Independent Random Variables. IEEE Signal Processing Letters, 2017, 24, 121-125.	3.6	6
24	On Fully-Distributed Composite Tests With General Parametric Data Distributions in Sensor Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 509-521.	2.8	6
25	Stability analysis of adaptive filters with regression vector nonlinearities. Signal Processing, 2011, 91, 2091-2100.	3.7	5
26	On the trade-off of power consumption and time synchronization quality in Wireless Sensor Networks. , 2012, , .		5
27	The two-way cooperative Information Bottleneck. , 2015, , .		5
28	A Robust Adaptive Filtering Algorithm Against Impulsive Noise. , 2007, , .		4
29	Capacity-approaching block-based transceivers with reduced redundancy. , 2009, 19, 340-359.		4
30	A proof of the Generalized Markov Lemma with countable infinite sources. , 2014, , .		4
31	Design of synchrophasor estimation systems with convex semi-infinite programming. , 2016, , .		4
32	A Locally Optimal Soft Linear-Quadratic Scheme for CR Systems in Shadowing Environments. IEEE Wireless Communications Letters, 2016, 5, 296-299.	5.0	4
33	Error exponents for bias detection of a correlated process over a MAC fading channel. , 2013, , .		3
34	An accurate phase compensation algorithm for PMUs. , 2016, , .		3
35	On the balance between cooperation and interference in dense wireless networks. , 2012, , .		2
36	A Self-Adaptive Contractive Algorithm for Enhanced Dynamic Phasor Estimation. IEEE Transactions on Smart Grid, 2020, 11, 2367-2380.	9.0	2

#	ARTICLE	IF	CITATIONS
37	A Comparative Study of Time Domain Compressed Sensing Techniques for Optoacoustic Imaging. IEEE Latin America Transactions, 2022, 20, 1018-1024.	1.6	2
38	Redundancy reduced transceivers and channel identification under impulsive noise. , 2010, , .		1
39	Stochastic Gradient Adaptive Algorithms. Springer Briefs in Electrical and Computer Engineering, 2013, , 33-88.	0.5	1
40	Distributed detection of correlated random processes under energy and bandwidth constraints. , 2014, , .		1
41	On the three-terminal interactive lossy source coding problem. , 2014, , .		1
42	Asymptotically optimal block-based transceivers with reduced redundancy. , 2008, , .		0
43	Author's Reply to 'Comments on 'Variable Explicit Regularization in Affine Projection Algorithm: Robustness Issues and Optimal Choice' ' IEEE Transactions on Signal Processing, 2010, 58, 3953-3954.	5.3	0
44	Advanced Topics and New Directions. Springer Briefs in Electrical and Computer Engineering, 2013, , 113-119.	0.5	0
45	Cooperative unicasting in large wireless networks. , 2013, , .		0
46	A novel control strategy for fail-safe cyclic data exchange in wireless sensor networks. , 2014, , .		0
47	On the rate-distortion regions for interactive source coding. , 2015, , .		0
48	A single-phase dynamic phasor estimation system: Analysis of performance and computational cost. , 2016, , .		0
49	On steady-state model uncertainty in phasor estimation: A robust statistical approach. , 2018, , .		0