

# Aurora Hermoso-Carazo

## List of Publications by Year in descending order

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107  
papers

1,474  
citations

393982

19  
h-index

395343

33  
g-index

107  
all docs

107  
docs citations

107  
times ranked

452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal state estimation for networked systems with random parameter matrices, correlated noises and delayed measurements. <i>International Journal of General Systems</i> , 2015, 44, 142-154.	1.2	101
2	Extended and unscented filtering algorithms using one-step randomly delayed observations. <i>Applied Mathematics and Computation</i> , 2007, 190, 1375-1393.	1.4	95
3	Distributed fusion filters from uncertain measured outputs in sensor networks with random packet losses. <i>Information Fusion</i> , 2017, 34, 70-79.	11.7	78
4	Unscented filtering algorithm using two-step randomly delayed observations in nonlinear systems. <i>Applied Mathematical Modelling</i> , 2009, 33, 3705-3717.	2.2	73
5	Networked distributed fusion estimation under uncertain outputs with random transmission delays, packet losses and multi-packet processing. <i>Signal Processing</i> , 2019, 156, 71-83.	2.1	68
6	Recursive estimators of signals from measurements with stochastic delays using covariance information. <i>Applied Mathematics and Computation</i> , 2005, 162, 65-79.	1.4	65
7	Networked fusion estimation with multiple uncertainties and time-correlated channel noise. <i>Information Fusion</i> , 2020, 54, 161-171.	11.7	55
8	Fusion estimation using measured outputs with random parameter matrices subject to random delays and packet dropouts. <i>Signal Processing</i> , 2016, 127, 12-23.	2.1	51
9	Signal estimation with multiple delayed sensors using covariance information. , 2010, 20, 528-540.		44
10	A new approach to distributed fusion filtering for networked systems with random parameter matrices and correlated noises. <i>Information Fusion</i> , 2019, 45, 324-332.	11.7	44
11	Distributed fusion estimation in networked systems with uncertain observations and Markovian random delays. <i>Signal Processing</i> , 2015, 106, 114-122.	2.1	33
12	Linear estimation for discrete-time systems in the presence of time-correlated disturbances and uncertain observations. <i>IEEE Transactions on Automatic Control</i> , 1994, 39, 1636-1638.	3.6	28
13	Linear recursive discrete-time estimators using covariance information under uncertain observations. <i>Signal Processing</i> , 2003, 83, 1553-1559.	2.1	28
14	Distributed and centralized fusion estimation from multiple sensors with Markovian delays. <i>Applied Mathematics and Computation</i> , 2012, 219, 2932-2948.	1.4	28
15	New design of estimators using covariance information with uncertain observations in linear discrete-time systems. <i>Applied Mathematics and Computation</i> , 2003, 135, 429-441.	1.4	26
16	Least-squares linear filtering using observations coming from multiple sensors with one- or two-step random delay. <i>Signal Processing</i> , 2009, 89, 2045-2052.	2.1	25
17	New distributed fusion filtering algorithm based on covariances over sensor networks with random packet dropouts. <i>International Journal of Systems Science</i> , 2017, 48, 1805-1817.	3.7	24
18	Linear smoothing for discrete-time systems in the presence of correlated disturbances and uncertain observations. <i>IEEE Transactions on Automatic Control</i> , 1995, 40, 1486-1488.	3.6	21

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19	Second-order polynomial estimators from uncertain observations using covariance information. Applied Mathematics and Computation, 2003, 143, 319-338.	1.4	21
20	Different approaches for state filtering in nonlinear systems with uncertain observations. Applied Mathematics and Computation, 2007, 187, 708-724.	1.4	21
21	Covariance-based estimation algorithms in networked systems with mixed uncertainties in the observations. Signal Processing, 2014, 94, 163-173.	2.1	21
22	Centralized, distributed and sequential fusion estimation from uncertain outputs with correlation between sensor noises and signal. International Journal of General Systems, 2019, 48, 713-737.	1.2	20
23	Signal estimation based on covariance information from observations featuring correlated uncertainty and coming from multiple sensors. Signal Processing, 2008, 88, 2998-3006.	2.1	18
24	Linear and quadratic estimation using uncertain observations from multiple sensors with correlated uncertainty. Signal Processing, 2011, 91, 330-337.	2.1	17
25	Linear estimation from uncertain observations with white plus coloured noises using covariance information. , 2003, 13, 552-568.		16
26	Recursive estimation of discrete-time signals from nonlinear randomly delayed observations. Computers and Mathematics With Applications, 2009, 58, 1160-1168.	1.4	16
27	Linear estimation based on covariances for networked systems featuring sensor correlated random delays. International Journal of Systems Science, 2013, 44, 1233-1244.	3.7	16
28	Quadratic Estimation of Multivariate Signals from Randomly Delayed Measurements*. Multidimensional Systems and Signal Processing, 2005, 16, 417-438.	1.7	14
29	A New Estimation Algorithm from Measurements with Multiple-Step Random Delays and Packet Dropouts. Mathematical Problems in Engineering, 2010, 2010, 1-18.	0.6	14
30	Least-squares linear estimators using measurements transmitted by different sensors with packet dropouts. , 2012, 22, 1118-1125.		14
31	Networked Fusion Filtering from Outputs with Stochastic Uncertainties and Correlated Random Transmission Delays. Sensors, 2016, 16, 847.	2.1	14
32	Estimation from a multisensor environment for systems with multiple packet dropouts and correlated measurement noises. Applied Mathematical Modelling, 2017, 45, 802-812.	2.2	14
33	Covariance-based fusion filtering for networked systems with random transmission delays and non-consecutive losses. International Journal of General Systems, 2017, 46, 752-771.	1.2	14
34	Optimal Fusion Estimation with Multi-Step Random Delays and Losses in Transmission. Sensors, 2017, 17, 1151.	2.1	14
35	Post-pH effect in oral streptococci. Clinical Microbiology and Infection, 2000, 6, 142-146.	2.8	13
36	Polynomial Filtering With Uncertain Observations in Stochastic Linear Systems. International Journal of Modelling and Simulation, 2003, 23, 22-28.	2.3	13

#	ARTICLE	IF	CITATIONS
37	Linear and quadratic least-squares estimation using measurements with correlated one-step random delay. , 2008, 18, 450-464.		13
38	Centralized filtering and smoothing algorithms from outputs with random parameter matrices transmitted through uncertain communication channels. , 2019, 85, 77-85.		13
39	Fixed-point smoothing with non-independent uncertainty using covariance information. International Journal of Systems Science, 2003, 34, 439-452.	3.7	11
40	New recursive estimators from correlated interrupted observations using covariance information. International Journal of Systems Science, 2005, 36, 617-629.	3.7	11
41	Fusion Estimation from Multisensor Observations with Multiplicative Noises and Correlated Random Delays in Transmission. Mathematics, 2017, 5, 45.	1.1	11
42	Least-Squares Linear Smoothers from Randomly Delayed Observations with Correlation in the Delay. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2006, E89-A, 486-493.	0.2	11
43	Fixed-interval smoothing problem from uncertain observations with correlated signal and noise. Applied Mathematics and Computation, 2004, 154, 239-255.	1.4	10
44	Fixed-interval smoothing algorithm based on covariances with correlation in the uncertainty. , 2005, 15, 207-221.		10
45	Recursive fixed-point smoothing algorithm from covariances based on uncertain observations with correlation in the uncertainty. Applied Mathematics and Computation, 2008, 203, 243-251.	1.4	10
46	Signal estimation with nonlinear uncertain observations using covariance information. Journal of Statistical Computation and Simulation, 2009, 79, 55-66.	0.7	10
47	Nonlinear estimation applying an unscented transformation in systems with correlated uncertain observations. Applied Mathematics and Computation, 2011, 217, 7998-8009.	1.4	10
48	A Two-Phase Distributed Filtering Algorithm for Networked Uncertain Systems with Fading Measurements under Deception Attacks. Sensors, 2020, 20, 6445.	2.1	10
49	Unscented Filtering from Delayed Observations with Correlated Noises. Mathematical Problems in Engineering, 2009, 2009, 1-9.	0.6	9
50	Recursive least-squares quadratic smoothing from measurements with packet dropouts. Signal Processing, 2012, 92, 931-938.	2.1	9
51	Covariance-Based Estimation from Multisensor Delayed Measurements with Random Parameter Matrices and Correlated Noises. Mathematical Problems in Engineering, 2014, 2014, 1-13.	0.6	9
52	Chandrasekhar-type filter for a wide-sense stationary signal from uncertain observations using covariance information. Applied Mathematics and Computation, 2004, 151, 315-325.	1.4	8
53	A general smoothing equation for signal estimation using randomly delayed observations in the correlated signal-noise case. , 2006, 16, 369-388.		7
54	Derivation of linear estimation algorithms from measurements affected by multiplicative and additive noises. Journal of Computational and Applied Mathematics, 2010, 234, 794-804.	1.1	7

#	ARTICLE	IF	CITATIONS
55	Centralized Fusion Approach to the Estimation Problem with Multi-Packet Processing under Uncertainty in Outputs and Transmissions. <i>Sensors</i> , 2018, 18, 2697.	2.1	7
56	Least-squares estimators for systems with stochastic sensor gain degradation, correlated measurement noises and delays in transmission modelled by Markov chains. <i>International Journal of Systems Science</i> , 2020, 51, 731-745.	3.7	7
57	Estimation for discrete-time systems with multiple packet dropouts using covariance information. <i>Mathematical and Computer Modelling</i> , 2011, 54, 2277-2286.	2.0	6
58	Derivation of fixed-interval smoothing algorithm using covariance information in distributed parameter systems. <i>Applied Mathematics and Computation</i> , 2006, 176, 662-672.	1.4	5
59	Design of a fixed-interval smoother using covariance information based on the innovations approach in linear discrete-time stochastic systems. <i>Applied Mathematical Modelling</i> , 2006, 30, 406-417.	2.2	5
60	Suboptimal estimation of signals from uncertain observations using approximations of mixtures. , 2007, 17, 4-16.		5
61	Least-squares Polynomial Estimation from Observations Featuring Correlated Random Delays. <i>Methodology and Computing in Applied Probability</i> , 2010, 12, 491-509.	0.7	5
62	Least-squares linear estimation of signals from observations with Markovian delays. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 234-242.	1.1	5
63	Distributed Fusion Estimation with Sensor Gain Degradation and Markovian Delays. <i>Mathematics</i> , 2020, 8, 1948.	1.1	5
64	An innovation approach to the smoothing problem from uncertain observations with correlated signal and noise. <i>Mathematical Methods in the Applied Sciences</i> , 2005, 28, 1569-1584.	1.2	4
65	Least-squares $\hat{1}/2$ th-order polynomial estimation of signals from observations affected by non-independent uncertainty. <i>Applied Mathematics and Computation</i> , 2006, 176, 642-653.	1.4	4
66	Filtering and prediction from uncertain observations with correlated signal and noise via mixture approximations. <i>Signal Processing</i> , 2007, 87, 970-982.	2.1	4
67	Design of RLS Wiener fixed-lag smoother using covariance information in linear discrete stochastic systems. <i>Applied Mathematical Modelling</i> , 2008, 32, 1338-1349.	2.2	4
68	Design of RLS Wiener estimators from randomly delayed observations in linear discrete-time stochastic systems. <i>Applied Mathematics and Computation</i> , 2010, 217, 3801-3815.	1.4	4
69	Least-Squares Filtering Algorithm in Sensor Networks with Noise Correlation and Multiple Random Failures in Transmission. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-9.	0.6	4
70	Design of recursive Wiener fixed-point smoothers based on innovations approach in linear discrete-time stochastic systems. <i>Applied Mathematics and Computation</i> , 2005, 165, 731-747.	1.4	3
71	Filtering of images corrupted by multiplicative and white plus coloured additive noises using covariance information. <i>Mathematical and Computer Modelling</i> , 2008, 47, 298-311.	2.0	3
72	Design of quadratic estimators using covariance information in linear discrete-time stochastic systems. <i>Journal of Time Series Analysis</i> , 2008, 29, 501-512.	0.7	3

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73	Filtering in Generalized Signal-Dependent Noise Model Using Covariance Information. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2008, E91-A, 809-817.	0.2	3
74	Derivation of centralized and distributed filters using covariance information. Computational Statistics and Data Analysis, 2011, 55, 312-323.	0.7	3
75	Covariance-Based Estimation for Clustered Sensor Networks Subject to Random Deception Attacks. Sensors, 2019, 19, 3112.	2.1	3
76	Fixed-Lag Smoothing Algorithm under Non-independent Uncertainty. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2005, E88-A, 988-995.	0.2	3
77	Quadratic estimation from uncertain observations with white plus coloured noises using covariance information. Applied Mathematics and Computation, 2004, 155, 65-79.	1.4	2
78	Signal polynomial smoothing from correlated interrupted observations based on covariances. Mathematical Methods in the Applied Sciences, 2007, 30, 1645-1665.	1.2	2
79	Design of fixed-lag smoother using covariance information based on innovations approach in linear discrete-time stochastic systems. Applied Mathematics and Computation, 2007, 193, 162-174.	1.4	2
80	Polynomial fixed-point smoothing of uncertainly observed signals based on covariances. International Journal of Systems Science, 2008, 39, 207-216.	3.7	2
81	RLS Wiener estimators from observations with multiple and random delays in linear discrete-time stochastic systems. Applied Mathematics and Computation, 2013, 225, 184-194.	1.4	2
82	Distributed estimation based on covariances under network-induced phenomena described by random measurement matrices. International Journal of General Systems, 2016, 45, 486-501.	1.2	2
83	Covariance-based least-squares filtering algorithm under Markovian measurement delays. International Journal of Computer Mathematics, 2020, 97, 40-50.	1.0	2
84	Distributed Fusion Estimation in Network Systems Subject to Random Delays and Deception Attacks. Mathematics, 2022, 10, 662.	1.1	2
85	Least mean-squared error polynomial estimation in systems with uncertain observations. , 0, , .		1
86	Estimation from uncertain observations in distributed parameter systems using covariance information. , 0, , .		1
87	Chandrasekhar-type recursive Wiener filter using covariance information in linear discrete-time wide-sense stationary stochastic systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 753-758.	0.4	1
88	Linear estimation using covariance information in distributed parameter systems with non-independent uncertainty. Signal Processing, 2006, 86, 3012-3020.	2.1	1
89	Design of RLS fixed-lag smoother using covariance information in linear discrete stochastic systems. Applied Mathematical Modelling, 2010, 34, 1093-1106.	2.2	1
90	Recursive smoothing algorithms for the estimation of signals from uncertain observations via mixture approximations. International Journal of Systems Science, 2010, 41, 647-656.	3.7	1

#	ARTICLE	IF	CITATIONS
91	Quadratic extended filtering in nonlinear systems with uncertain observations. Applied Mathematical Sciences, 0, 8, 157-172.	0.0	1
92	Least-squares quadratic estimators from non-independent uncertain observations with coloured noise. , 0, , .		0
93	Recursive fixed-interval smoother with correlated signal and noise in presence of uncertain observations. , 0, , .		0
94	On the estimation of signals transmitted in multichannel from Chandrasekhar recursions. , 0, , .		0
95	Signal filtering algorithms in continuous-time systems with uncertain observations. , 0, , .		0
96	Fixed-interval smoother from randomly delayed observations. , 0, , .		0
97	General expression of the least-squares linear smoother using covariance information under uncertain observations. , 0, , .		0
98	Recursive filtering algorithm to estimate images observed by signal-dependent colored noise. , 2007, , .		0
99	New filtering algorithm using observations with one or two-step random delay. , 2007, , .		0
100	Signal estimation from uncertain observations coming from multiple sensors. , 2007, , .		0
101	Nonlinear Estimation of Discrete-Time Signals Under Random Observation Delay. , 2008, , .		0
102	Linear least-squares estimation based on covariances from multiple correlated uncertain observations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3677-3682.	0.4	0
103	Design of Quadratic Estimators using Covariance Information in Linear Discrete-Time Stochastic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14496-14501.	0.4	0
104	Estimation in Linear Systems Featuring Correlated Uncertain Observations Coming from Multiple Sensors. , 2009, , .		0
105	Unscented Filtering Algorithm for Discrete-Time Systems with Uncertain Observations and State-Dependent Noise. , 0, , .		0
106	Quadratic Filtering Algorithm Based on Covariances Using Correlated Uncertain Observations Coming from Different Sensors. ISRN Applied Mathematics, 2011, 2011, 1-18.	0.5	0
107	Recursive Estimation Algorithm Based on Covariances for Uncertainly Observed Signals Correlated with Noise. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2008, E91-A, 1706-1712.	0.2	0