

Augusto Ferrante

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

1,031
citations

17
h-index

27
g-index

99
ext. papers

1,287
ext. citations

3.4
avg, IF

4.79
L-index

#	Paper	IF	Citations
79	M2-spectral estimation: A relative entropy approach. <i>Automatica</i> , 2021 , 125, 109404	5.7	4
78	New Results on the Characterization of Strictly Positive Real Matrix Transfer Functions. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 335-339	5.9	1
77	A Scalable Strategy for the Identification of Latent-variable Graphical Models. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
76	M ² Spectral Estimation: A Flexible Approach Ensuring Rational Solutions. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 2977-2996	1.9	1
75	Learning Latent Variable Dynamic Graphical Models by Confidence Sets Selection. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 5130-5143	5.9	4
74	Space and spectral domain relative entropy for homogeneous random fields. <i>Automatica</i> , 2020 , 122, 109226	5.7	
73	A Direct Proof of the Equivalence of Side Conditions for Strictly Positive Real Matrix Transfer Functions. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 450-452	5.9	3
72	On the State Space and Dynamics Selection in Linear Stochastic Models: A Spectral Factorization Approach. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2509-2513	5.9	3
71	Families of solutions of algebraic Riccati equations. <i>Systems and Control Letters</i> , 2019 , 127, 35-38	2.4	2
70	. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 1848-1857	5.9	2
69	Parametrization of Minimal Spectral Factors of Discrete-Time Rational Spectral Densities. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 396-403	5.9	9
68	Fusion of Sensors Data in Automotive Radar Systems: A Spectral Estimation Approach 2019 ,		2
67	Factor Models With Real Data: A Robust Estimation of the Number of Factors. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2412-2425	5.9	8
66	The geometry of the generalized algebraic Riccati equation and of the singular Hamiltonian system. <i>Linear and Multilinear Algebra</i> , 2019 , 67, 158-174	0.7	2
65	On the reduction of the continuous-time generalized algebraic Riccati equation: An effective procedure for solving the singular LQ problem with smooth solutions. <i>Automatica</i> , 2018 , 93, 554-558	5.7	7
64	Robust Identification of Sparse Plus Low-rank Graphical Models: An Optimization Approach 2018 ,		4
63	Identification of Sparse Reciprocal Graphical Models 2018 , 2, 659-664		9

62	Discrete-time negative imaginary systems. <i>Automatica</i> , 2017 , 79, 1-10	5.7	37
61	Representation and Factorization of Discrete-Time Rational All-Pass Functions. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3262-3276	5.9	9
60	Factor analysis with finite data 2017 ,		3
59	Solvability conditions for the positive real lemma equations in the discrete time. <i>IET Control Theory and Applications</i> , 2017 , 11, 2916-2920	2.5	3
58	On the Factorization of Rational Discrete-Time Spectral Densities. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 969-981	5.9	15
57	Foundations of Not Necessarily Rational Negative Imaginary Systems Theory: Relations Between Classes of Negative Imaginary and Positive Real Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 3052-3057	5.9	47
56	On Minimal Spectral Factors With Zeroes and Poles Lying on Prescribed Regions. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 2251-2255	5.9	10
55	Continuous-time singular linear-quadratic control: Necessary and sufficient conditions for the existence of regular solutions. <i>Systems and Control Letters</i> , 2016 , 93, 30-34	2.4	12
54	. <i>IEEE Transactions on Information Forensics and Security</i> , 2015 , 10, 941-952	8	22
53	The discrete-time generalized algebraic Riccati equation: Order reduction and solutions structure. <i>Systems and Control Letters</i> , 2015 , 75, 84-93	2.4	6
52	A note on finite-horizon LQ problems with indefinite cost. <i>Automatica</i> , 2015 , 52, 290-293	5.7	7
51	Minimal resources identifiability and estimation of quantum channels. <i>Quantum Information Processing</i> , 2014 , 13, 683-707	1.6	3
50	Minimum Relative Entropy for Quantum Estimation: Feasibility and General Solution. <i>IEEE Transactions on Information Theory</i> , 2014 , 60, 357-367	2.8	9
49	The generalized continuous algebraic Riccati equation and impulse-free continuous-time LQ optimal control. <i>Automatica</i> , 2014 , 50, 1176-1180	5.7	18
48	A reduction technique for discrete generalized algebraic and difference Riccati equations. <i>Linear and Multilinear Algebra</i> , 2014 , 62, 1460-1474	0.7	10
47	Some new results in the theory of negative imaginary systems with symmetric transfer matrix function. <i>Automatica</i> , 2013 , 49, 2138-2144	5.7	48
46	The generalised discrete algebraic Riccati equation in linear-quadratic optimal control. <i>Automatica</i> , 2013 , 49, 471-478	5.7	33
45	The Extended Symplectic Pencil and the Finite-Horizon LQ Problem With Two-Sided Boundary Conditions. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2102-2107	5.9	10

44	Roth's similarity theorem and rank minimization in the presence of nonderogatory or semisimple eigenvalues. <i>Linear and Multilinear Algebra</i> , 2013 , 61, 217-231	0.7	
43	On the Geometry of Maximum Entropy Problems. <i>SIAM Review</i> , 2013 , 55, 415-439	7.4	20
42	On the definition of negative imaginary system for not necessarily rational symmetric transfer functions 2013 ,		3
41	On the estimation of structured covariance matrices. <i>Automatica</i> , 2012 , 48, 2145-2151	5.7	22
40	A Maximum Entropy Enhancement for a Family of High-Resolution Spectral Estimators. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 318-329	5.9	35
39	Time and Spectral Domain Relative Entropy: A New Approach to Multivariate Spectral Estimation. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 2561-2575	5.9	38
38	Comments on "Structural Invariant Subspaces of Singular Hamiltonian Systems and Nonrecursive Solutions of Finite-Horizon Optimal Control Problems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 270-272	5.9	1
37	Multivariate Itakura-Saito distance for spectral estimation: Relation between time and spectral domain relative entropy rates 2012 , 2012, 350-355		
36	Matrix Completion via Dempster by the Principle of Parsimony. <i>IEEE Transactions on Information Theory</i> , 2011 , 57, 3925-3931	2.8	9
35	On the Convergence of an Efficient Algorithm for Kullback-Leibler Approximation of Spectral Densities. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 506-515	5.9	15
34	. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1999-2012	5.9	30
33	On the solution of the Riccati differential equation arising from the LQ optimal control problem. <i>Systems and Control Letters</i> , 2010 , 59, 114-121	2.4	15
32	On the well-posedness of multivariate spectrum approximation and convergence of high-resolution spectral estimators. <i>Systems and Control Letters</i> , 2010 , 59, 167-172	2.4	11
31	A Maximum Entropy Solution of the Covariance Selection Problem for Reciprocal Processes 2010 , 77-93		
30	Application of a Global Inverse Function Theorem of Byrnes and Lindquist to a Multivariable Moment Problem with Complexity Constraint 2010 , 153-167		4
29	A Globally Convergent Matrix Algorithm for Multivariate Spectral Estimation. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2376-2388	5.9	37
28	Hellinger Versus Kullback-Leibler Multivariable Spectrum Approximation. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 954-967	5.9	60
27	A Unified Approach to the Finite-Horizon Linear Quadratic Optimal Control Problem*. <i>European Journal of Control</i> , 2007 , 13, 473-488	2.5	8

26	The role of terminal cost/reward in finite-horizon discrete-time LQ optimal control. <i>Linear Algebra and Its Applications</i> , 2007 , 425, 323-344	0.9	6
25	A unified approach to finite-horizon generalized LQ optimal control problems for discrete-time systems. <i>Linear Algebra and Its Applications</i> , 2007 , 425, 242-260	0.9	10
24	Order reduction of discrete-time algebraic Riccati equations with singular closed loop matrix. <i>Operators and Matrices</i> , 2007 , 61-70	2.3	8
23	Further Results on the Byrnes-Georgiou-Lindquist Generalized Moment Problem. <i>Lecture Notes in Control and Information Sciences</i> , 2007 , 73-83	0.5	11
22	A unified approach to the finite-horizon LQ regulator - Part I: the continuous time 2006 ,		3
21	Algebraic Riccati Equation and J-Spectral Factorization for Hinfy Smoothing and Deconvolution. <i>SIAM Journal on Control and Optimization</i> , 2006 , 45, 123-145	1.9	16
20	Dynamical decoupling in quantum control: A system theoretic approach. <i>Systems and Control Letters</i> , 2006 , 55, 578-584	2.4	7
19	A parametrization of the solutions of the finite-horizon LQ problem with general cost and boundary conditions. <i>Automatica</i> , 2005 , 41, 1359-1366	5.7	24
18	Minimal representations of continuous-time processes having spectral density with zeros in the extended imaginary axis. <i>Systems and Control Letters</i> , 2005 , 54, 511-520	2.4	4
17	Employing the algebraic Riccati equation for a parametrization of the solutions of the finite-horizon LQ problem: the discrete-time case. <i>Systems and Control Letters</i> , 2005 , 54, 693-703	2.4	15
16	Algebraic Riccati equation and J-spectral factorization for estimation. <i>Systems and Control Letters</i> , 2004 , 51, 383-393	2.4	15
15	On the relation between additive and multiplicative decompositions of rational matrix functions. <i>International Journal of Control</i> , 2003 , 76, 366-385	1.5	4
14	On the solvability of the positive real lemma equations. <i>Systems and Control Letters</i> , 2002 , 47, 211-219	2.4	12
13	Silverman algorithm and the structure of discrete-time stochastic systems. <i>Linear Algebra and Its Applications</i> , 2002 , 351-352, 219-242	0.9	7
12	How to Steer a Quantum System over a Schrödinger Bridge. <i>Quantum Information Processing</i> , 2002 , 1, 183-206	1.6	5
11	Characterization of Stationary Discrete-Time Gaussian Reciprocal Processes over a Finite Interval. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2002 , 24, 334-355	1.5	16
10	Asymmetrical algebraic Riccati equation: A homeomorphic parametrization of the set of solutions. <i>Linear Algebra and Its Applications</i> , 2001 , 329, 137-156	0.9	12
9	Explicit formulas for LMI-based H2 filtering and deconvolution. <i>Automatica</i> , 2001 , 37, 1443-1449	5.7	20

8	Linear Quadratic Optimization for Systems in the Behavioral Approach. <i>SIAM Journal on Control and Optimization</i> , 2000 , 39, 159-178	1.9	5
7	The algebraic Riccati inequality: parametrization of solutions, tightest local frames and generalized feedback matrices. <i>Linear Algebra and Its Applications</i> , 1999 , 292, 187-206	0.9	8
6	Convergent algorithm for L2 model reduction. <i>Automatica</i> , 1999 , 35, 75-79	5.7	15
5	Canonical form of symplectic matrix pencils. <i>Linear Algebra and Its Applications</i> , 1998 , 274, 259-300	0.9	15
4	A Homeomorphic Characterization Of Minimal Spectral Factors. <i>SIAM Journal on Control and Optimization</i> , 1997 , 35, 1508-1523	1.9	2
3	Optimal steering for an extended class of nonholonomic systems using Lagrange functional. <i>Automatica</i> , 1997 , 33, 1635-1646	5.7	4
2	Hermitian solutions of the equation $X = Q + NXN^*$. <i>Linear Algebra and Its Applications</i> , 1996 , 247, 359-373	3.9	87
1	Parametrization of all minimal square spectral factors. <i>Systems and Control Letters</i> , 1993 , 21, 249-254	2.4	23