HuseyÄ°n Akcay

List of Publications by Year
in descending order

74 papers	906 citations	623734 14 h-index	501196 28 g-index
74 all docs	74 docs citations	74 times ranked	456 citing authors

#	Article	IF	Citations
1	A study of random vibration characteristics of the quarter-car model. Journal of Sound and Vibration, 2005, 282, 111-124.	3.9	137
2	Orthonormal basis functions for modelling continuous-time systems. Signal Processing, 1999, 77, 261-274.	3.7	98
3	Short-term wind speed forecasting by spectral analysis from long-term observations with missing values. Applied Energy, 2017, 191, 653-662.	10.1	72
4	Rational Basis Functions for Robust Identification from Frequency and Time-Domain Measurements. Automatica, 1998, 34, 1101-1117.	5.0	70
5	Subspace-based identification of infinite-dimensional multivariable systems from frequency-response data. Automatica, 1996, 32, 885-902.	5.0	62
6	Frequency domain subspace-based identification of discrete-time power spectra from nonuniformly spaced measurements. Automatica, 2004, 40, 1333-1347.	5.0	51
7	Frequency domain subspace-based identification of discrete-time power spectra from uniformly spaced measurements. Automatica, 2011, 47, 363-367.	5.0	38
8	Orthonormal Basis Functions for Continuous-Time Systems and Lp Convergence. Mathematics of Control, Signals, and Systems, 1999, 12, 295-305.	2.3	37
9	Identification of power transformer models from frequency response data: A case study. Signal Processing, 1998, 68, 307-315.	3.7	26
10	Spectral estimation in frequency-domain by subspace techniques. Signal Processing, 2014, 101, 204-217.	3.7	26
11	Subspace-based spectrum estimation in frequency-domain by regularized nuclear norm minimization. Signal Processing, 2014, 99, 69-85.	3.7	20
12	Discrete-time system modelling in with orthonormal basis functions. Systems and Control Letters, 2000, 39, 365-376.	2.3	18
13	Positive realness in stochastic subspace identification: A regularized and reweighted nuclear norm minimization approach. , 2015, , .		16
14	A frequency-domain iterative identification algorithm using general orthonormal basis functions. Automatica, 2001, 37, 663-674.	5.0	15
15	Nuclear Norm Spectrum Estimation From Uniformly Spaced Measurements. IEEE Transactions on Automatic Control, 2014, 59, 2252-2257.	5.7	15
16	Synthesis of Complete Orthonormal Fractional Basis Functions With Prescribed Poles. IEEE Transactions on Signal Processing, 2008, 56, 4716-4728.	5.3	14
17	The size of the membership-set in a probabilistic framework. Automatica, 2004, 40, 253-260.	5.0	13
18	Influence of Tire Damping on Actively Controlled Quarter-Car Suspensions. Journal of Vibration and Acoustics, Transactions of the ASME, 2011, 133, .	1.6	13

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19	Frequency domain subspace-based identification of discrete-time singular power spectra. Signal Processing, 2012, 92, 2075-2081.	3.7	12
20	On the existence of a disk algebra basis. Signal Processing, 2000, 80, 903-907.	3.7	11
21	Wind speed forecasting by subspace and nuclear norm optimization based algorithms. Sustainable Energy Technologies and Assessments, 2019, 35, 139-147.	2.7	11
22	Power spectrum estimation in innovation models. Mechanical Systems and Signal Processing, 2019, 121, 227-245.	8.0	11
23	A Subspaceâ€Based Method for Solving Lagrangeâ€"Sylvester Interpolation Problems. SIAM Journal on Matrix Analysis and Applications, 2007, 29, 377-395.	1.4	9
24	Subspace-Based Rational Interpolation of Analytic Functions From Phase Data. IEEE Transactions on Signal Processing, 2010, 58, 1069-1081.	5.3	9
25	Estimation of cross-power and auto-power spectral densities in frequency domain by subspace methods. , 2012, , .		8
26	Road Roughness Evaluation by Curve-Fitting and Subspace-Identification Methods. Journal of Transportation Engineering, 2016, 142, 04016050.	0.9	8
27	Tire Damping Effect on H2 Optimal Control of Half-Car Active Suspensions. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.6	6
28	Time-domain identification of rational spectra with missing data. , 2016, , .		6
29	A stochastic analysis of robust estimation algorithms inHâˆžwith rational basis functions. International Journal of Robust and Nonlinear Control, 2002, 12, 71-86.	3.7	5
30	RMS Performance Limitations and Constraints for Quarter-Car Active Suspensions. , 2008, , .		5
31	An insight into instrumental variable frequency-domain subspace identification. Automatica, 2010, 46, 375-382.	5.0	5
32	Multi-objective control of a full-car model using linear-matrix-inequalities and fixed-order optimisation. Vehicle System Dynamics, 2014, 52, 429-448.	3.7	5
33	Stochastic optimal control of truck cabin with active suspension. International Journal of Heavy Vehicle Systems, 2014, 21, 183.	0.2	5
34	Continuous-time stable and unstable system modelling with orthonormal basis functions. International Journal of Robust and Nonlinear Control, 2000, 10, 513-531.	3.7	4
35	Influence of tire damping on the ride performance potential of quarter-car active suspensions. , 2008, , .		4
36	Rational Interpolation of Analytic Functions From Real or Imaginary Parts of Frequency-Response Data: A Subspace-Based Approach. IEEE Signal Processing Letters, 2009, 16, 350-353.	3.6	4

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37	Spectrum estimation with missing values: A regularized nuclear norm minimization approach. International Journal of Wavelets, Multiresolution and Information Processing, 2016, 14, 1650054.	1.3	4
38	General Orthonormal Bases for Robust Identification in H_infty. SIAM Journal on Control and Optimization, 2001, 40, 947-968.	2.1	3
39	Modelling of road roughness for full-car models: A spectral factorization approach. , 2016, , .		3
40	Induction Motor Identification from Acoustic Noise Spectrum by a Covariance Subspace Algorithm. , 2018, , .		3
41	Subspace-based spectrum estimation in innovation models by mixed norm minimization. Journal of the Franklin Institute, 2019, 356, 3169-3186.	3.4	3
42	Membership set identification with periodic inputs and orthonormal regressors. Signal Processing, 2006, 86, 3778-3786.	3.7	2
43	IDENTIFICATION OF CONTINUOUS–TIME POWER SPECTRA BY GENERALIZED FOURIER SERIES. Asian Journal of Control, 2007, 9, 57-63.	3.0	2
44	A spectral estimation case study in frequency-domain by subspace methods. , 2013, , .		2
45	Identification of power spectra by reweighted and regularized nuclear norm minimization. , 2015, , .		2
46	Road roughness modelling by using spectral factorization methods. , 2016, , .		2
47	Wind speed forecasting with missing values. , 2017, , .		2
48	Synthesis of complete rational orthonormal bases with prescribed asymptotic order. Automatica, 2001, 37, 559-564.	5.0	1
49	A generalization of a standard inequality for Hardy space H1. Automatica, 2001, 37, 1853-1857.	5.0	1
50	The Size of the Membership-Set in a Probabilistic Framework. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1843-1848.	0.4	1
51	STOCHASTIC ROAD AND TRACK MODELING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1370-1375.	0.4	1
52	Convergence analysis of central and minimax algorithms in scalar regressor models. Mathematics of Control, Signals, and Systems, 2006, 18, 66-99.	2.3	1
53	Active suspension design for an idealized truck cabin. , 2009, , .		1
54	Subspace-based spectrum estimation by reweighted and regularized nuclear norm minimization in frequency-domain. , 2015, , .		1

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55	Road profile modeling by subspace identification methods. , 2015, , .		1
56	Parallel track models from road measurements. , 2017, , .		1
57	Discussion on: â€œMultivariable Control of Noise in an Acoustic Ductâ€ European Journal of Control, 2004, 10, 573-575.	2.6	0
58	CONVERGENCE ANALYSIS OF CENTRAL AND MINIMAX ALGORITHMS IN SCALAR REGRESSOR MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 594-599.	0.4	0
59	Synthesis of complete orthonormal fractional bases. , 2008, , .		0
60	Influence of Tire Damping on the H2Optimally Designed Half-Car Active Suspensions. , 2008, , .		0
61	Subspace-based rational interpolation of analytic functions from real or imaginary parts of frequency-response data. , 2009, , .		0
62	Subspace-based rational interpolation from phase data. , 2009, , .		0
63	Instrumental variable frequency-domain subspace identification. , 2010, , .		0
64	Rational interpolation from phase data by subspace methods. , 2010, , .		0
65	Discussion on: â€œGeneralized Linear Dynamic Factor Models: An Approach via Singular Autoregressionsâ€ European Journal of Control, 2010, 16, 226-227.	2.6	0
66	Frequency domain subspace identification of discrete-time singular power spectra. , 2011, , .		0
67	Frequency domain subspace-based identification of discrete-time singular power spectra from uniformly spaced measurements. , 2012, , .		0
68	Regularized nuclear norm spectrum estimation in frequency domain. , 2013, , .		0
69	Power spectrum estimation with missing values. , 2015, , .		0
70	Spectrum estimation in frequency-domain by subspace and regularization-based algorithms: A survey. , 2015, , .		0
71	Cramer-Rao bounds for road profile estimation. , 2017, , .		0
72	Spectrum estimation in innovation models by a nuclear norm optimization based algorithm. , 2017, , .		0

#	Article	IF	Citations
73	Short-Term Wind Speed Forecasting by Spectral Analysis. , 2018, , .		0
74	Power Spectrum Estimation in Innovation Models by Nuclear Norm Optimization. , 2018, , .		0