Hugues Garnier

List of Publications by Year
in descending order

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90 papers	1,765 citations	304743 22 h-index	302126 39 g-index
90 all docs	90 docs citations	90 times ranked	968 citing authors

#	Article	IF	Citations
1	Parameter estimation of a gyroless micro-satellite from telemetry data. Control Engineering Practice, 2022, 123, 105134.	5.5	2
2	Recursive IV Identification of Continuous-Time Models With Time Delay From Sampled Data. IEEE Transactions on Control Systems Technology, 2020, 28, 1074-1082.	5.2	12
3	Control-Oriented Modeling of Wireless Power Transfer Systems With Phase-Shift Control. IEEE Transactions on Power Electronics, 2020, 35, 2119-2134.	7.9	29
4	Data-Driven Modeling of Wireless Power Transfer Systems With Multiple Transmitters. IEEE Transactions on Power Electronics, 2020, 35, 11363-11379.	7.9	19
5	Data-Driven Modeling of Wireless Power Transfer Systems With Slowly Time-Varying Parameters. IEEE Transactions on Power Electronics, 2020, 35, 12442-12456.	7.9	15
6	Benchmark problems for continuous-time model identification: Design aspects, results and perspectives. Automatica, 2019, 107, 511-517.	5.0	11
7	Identification of continuous-time models with slowly time-varying parameters. Control Engineering Practice, 2019, 93, 104165.	5.5	9
8	Predicting collisions: time-to-contact forecasting based on probabilistic segmentation and system identification. Advanced Robotics, 2018, 32, 426-442.	1.8	2
9	A Frequency Localizing Basis Function-Based IV Method for Wideband System Identification. IEEE Transactions on Control Systems Technology, 2018, 26, 329-335.	5.2	10
10	CONTSID: a Matlab toolbox for standard and advanced identification of black-box continuous-time models. IFAC-PapersOnLine, 2018, 51, 688-693.	0.9	20
11	In-Orbit Data Driven Identification of Satellite Inertia Matrix. IFAC-PapersOnLine, 2018, 51, 467-472.	0.9	2
12	Frequency domain identification of continuous-time output-error models with time-delay from relay feedback tests. Automatica, 2018, 98, 180-189.	5.0	10
13	Issues in separable identification of continuous-time models with time-delay. Automatica, 2018, 94, 258-273.	5.0	24
14	EM-based identification of continuous-time ARMA Models from irregularly sampled data. Automatica, 2017, 77, 293-301.	5.0	22
15	Aerodynamic Coefficient Identification of a Space Vehicle from Multiple Free-Flight Tests. Journal of Spacecraft and Rockets, 2017, 54, 426-435.	1.9	11
16	Identification and control of nonlinear electro-mechanical systems. International Journal of Control, 2017, 90, 641-642.	1.9	0
17	Robust time-domain output error method for identifying continuous-time systems with time delay. Systems and Control Letters, 2017, 102, 81-92.	2.3	16
18	Refined instrumental variable parameter estimation of continuousâ€time Boxâ€“Jenkins models from irregularly sampled data. IET Control Theory and Applications, 2017, 11, 291-300.	2.1	6

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19	A pragmatic and systematic statistical analysis for identification of industrial robots. , 2017, , .		3
20	Recursive online IV method for identification of continuous-time slowly time-varying models in closed loop. IFAC-PapersOnLine, 2017, 50, 4008-4013.	0.9	5
21	Comparison between the IDIM-IV method and the DIDIM method for industrial robots identification. , 2017, , .		1
22	Accurate Lithium-ion battery parameter estimation with continuous-time system identification methods. , 2016, , .		0
23	Developments towards formalizing a benchmark for continuous-time model identification. , 2016, , .		0
24	Real-time identification of linear continuous-time systems with slowly time-varying parameters. , 2016, , .		6
25	Accurate Lithium-ion battery parameter estimation with continuous-time system identification methods. Applied Energy, 2016, 179, 426-436.	10.1	77
26	A Model-Based Pharmacokinetics Characterization Method of Engineered Nanoparticles for Pilot Studies. IEEE Transactions on Nanobioscience, 2015, 14, 368-377.	3.3	3
27	Direct continuous-time approaches to system identification. Overview and benefits for practical applications. European Journal of Control, 2015, 24, 50-62.	2.6	81
28	Robust identification of continuous-time models with arbitrary time-delay from irregularly sampled data. Journal of Process Control, 2015, 25, 19-27.	3.3	65
29	Special issue on â€˜Applications of Continuous-Time Model Identification and Estimationâ€™. International Journal of Control, 2014, 87, 1317-1318.	1.9	7
30	Closed-loop identification of continuous-time systems from non-uniformly sampled data. , 2014, , .		3
31	Refined IV-based method for LPV partial differential equation model identification. , 2014, , .		1
32	Grey-box identification of the pitch damping coefficient from free flight tests. , 2014, , .		1
33	The advantages of directly identifying continuous-time transfer function models in practical applications. International Journal of Control, 2014, 87, 1319-1338.	1.9	66
34	Direct continuous-time model identification of high-powered light-emitting diodes from rapidly sampled thermal step response data. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6430-6435.	0.4	5
35	Parameter and time-delay identification of continuous-time models from non-uniformly sampled data. , 2014, , .		2
36	Parameter and differentiation order estimation in fractional models. Automatica, 2013, 49, 926-935.	5.0	197

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37	Instrumental variable methods for identifying partial differential equation models. International Journal of Control, 2013, 86, 2325-2335.	1.9	14
38	Refined instrumental variable method for Hammersteinâ€“Wiener continuousâ€time model identification. IET Control Theory and Applications, 2013, 7, 1276-1286.	2.1	35
39	Frequency-domain instrumental variable based method for wide band system identification. , 2013, , .		5
40	Identification of LPV partial differential equation models. , 2013, , .		2
41	Identification of advection-diffusion equation from a limited number of spatial locations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 193-198.	0.4	5
42	Developments for the CONTSID toolbox. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1553-1558.	0.4	8
43	Instrumental variable methods for identifying partial differential equation models of distributed parameter systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 840-845.	0.4	5
44	What does continuous-time model identification have to offer?. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 810-815.	0.4	10
45	Two-stage refined instrumental variable method for identifying Hammerstein-Wiener continuous-time models in closed loop. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 25-30.	0.4	2
46	A Kalman Pre-filtered IV-Based Approach to Continuous-Time Hammerstein-Wiener System Identification*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 828-833.	0.4	2
47	A Refined Instrumental Variable Method for Hammerstein-Wiener Continuous-Time Model Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1061-1066.	0.4	5
48	System identification of the intrabrain tumoral uptake of multifunctional nanoparticles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 154-159.	0.4	1
49	Instrumental variable scheme for closed-loop LPV model identification. Automatica, 2012, 48, 2314-2320.	5.0	48
50	System Identification, Environmental Modelling, and Control System Design. , 2012, , .		16
51	Refined Instrumental Variable Methods for Hammerstein Box-Jenkins Models. , 2012, , 27-47.		1
52	A new data-based modelling method for identifying parsimonious nonlinear rainfall/ï¬‚ow models. Journal Europeen Des Systemes Automatises, 2012, 46, 633-647.	0.4	0
53	Teaching Data-based Continuous-time Model Identification with the CONTSID Toolbox for Matlab. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6373-6378.	0.4	3
54	On the closed loop identification of LPV models using instrumental variables. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7773-7778.	0.4	6

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55	Optimal instrumental variable method for closed-loop identification. IET Control Theory and Applications, 2011, 5, 1147-1154.	2.1	58
56	Direct identification of continuous-time linear parameter-varying input/output models. IET Control Theory and Applications, 2011, 5, 878-888.	2.1	29
57	Refined instrumental variable methods for identification of LPV Boxâ€“Jenkins models. Automatica, 2010, 46, 959-967.	5.0	141
58	Projet Voltaireou comment remettre Ã niveau les Ã©tudiants en orthographe. Retour dâ€™expÃ©rience du dÃ©partement R&T de lâ€™IUT Nancy-Brabois. J3eA, 2010, 9, 0021.	0.0	2
59	Refined instrumental variable methods for identifying hammerstein models operating in closed loop. , 2009, , .		10
60	Unifying some higher-order statistic-based methods for errors-in-variables model identification. Automatica, 2009, 45, 1937-1942.	5.0	7
61	Refined Instrumental Variable methods for closed-loop system identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 284-289.	0.4	8
62	Simple Refined IV Methods of Closed-Loop System Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1151-1156.	0.4	11
63	Third-order cumulants based methods for continuous-time errors-in-variables model identification. Automatica, 2008, 44, 647-658.	5.0	37
64	Direct Identification of Continuous-time Models from Sampled Data: Issues, Basic Solutions and Relevance. , 2008, , 1-29.		29
65	The CONTSID Toolbox: A Software Support for Data-based Continuous-time Modelling. Advances in Industrial Control, 2008, , 249-290.	0.5	20
66	Refined instrumental variable methods for identification of Hammerstein continuous-time Box-Jenkins models. , 2008, , .		19
67	An optimal instrumental variable method for continuous-time fractional model identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14379-14384.	0.4	38
68	Statistical Analysis of a Third-Order Cumulants Based Algorithm for Discrete-Time Errors-in-Variables Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 420-425.	0.4	6
69	On instrumental variable-based methods for errors-in-variables model identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 426-431.	0.4	23
70	Refined Instrumental Variable Identification of Continuous-time Hybrid Box-Jenkins Models. , 2008, , 91-131.		33
71	Instrumental Variable Methods for Closed-loop Continuous-time Model Identification. Advances in Industrial Control, 2008, , 133-160.	0.5	16
72	Identification of continuous-time Box-Jenkins models with arbitrary time-delay. , 2007, , .		2

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73	A METHOD FOR BIAS REDUCTION IN TIME DOMAIN LEAST SQUARES PARAMETER ESTIMATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 590-595.	0.4	3
74	Continuous-time model identification from noisy input/output measurements using fourth-order cumulants. , 2007, , .		9
75	Subspace based methods for continuous-time model identification of MIMO systems from filtered sampled data. , 2007, , .		15
76	An optimal IV technique for identifying continuous-time transfer function model of multiple input systems. Control Engineering Practice, 2007, 15, 471-486.	5.5	84
77	LATEST DEVELOPMENTS FOR THE MATLAB CONTSID TOOLBOX. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 714-719.	0.4	25
78	A REFINED IV METHOD FOR CLOSED-LOOP SYSTEM IDENTIFICATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 903-908.	0.4	16
79	IDENTIFICATION AND ESTIMATION OF CONTINUOUS-TIME RAINFALL-FLOW MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1276-1281.	0.4	5
80	AN OPTIMAL INSTRUMENTAL VARIABLE APPROACH FOR IDENTIFYING HYBRID CONTINUOUS-TIME BOX-JENKINS MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 225-230.	0.4	22
81	GENERALIZATION OF A CORRELATION METHOD FOR TIME-DELAY ESTIMATION WITH APPLICATION TO A RIVER REACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 891-896.	0.4	1
82	CONTINUOUS-TIME MODEL IDENTIFICATION OF ROBOT FLEXIBILITIES FOR FAST VISUAL SERVOING. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1264-1269.	0.4	8
83	Identification and estimation of continuous-time, data-based mechanistic (DBM) models for environmental systems. Environmental Modelling and Software, 2006, 21, 1055-1072.	4.5	99
84	Identification of continuous-time errors-in-variables models. Automatica, 2006, 42, 1477-1490.	5.0	34
85	DIRECT IDENTIFICATION OF CONTINUOUS-TIME ERRORS-IN-VARIABLES MODELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 797-802.	0.4	8
86	ROBUSTNESS ISSUES IN CONTINUOUS-TIME SYSTEM IDENTIFICATION FROM SAMPLED DATA. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 237-242.	0.4	6
87	Authors' reply to â€œComments on â€˜Continuous-time model identification from sampled data: implementation issues and performance evaluationâ€™ by E. Bojeâ€¦ International Journal of Control, 2005, 78, 1153-1154.	1.9	0
88	Continuous-time model identification of systems operating in closed-loop. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 405-410.	0.4	3
89	The identification of continuous-time linear and nonlinear models: a tutorial with environmental applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 597-607.	0.4	4
90	Developments for the matlab contsid toolbox. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 969-974.	0.4	23