Marion Gilson

List of Publications by Year
in descending order

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65 papers	1,179 citations	394421 19 h-index	414414 32 g-index
65 all docs	65 docs citations	65 times ranked	515 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	How Statistical Learning Can Help to Estimate the Number of Modes in Switched System Identification?. IFAC-PapersOnLine, 2021, 54, 637-642.	0.9	1
3	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
4	Global Sensitivity Analysis for Modeling the Free-Flight Behavior of an Artillery Projectile. AIAA Journal, 2020, 58, 3139-3148.	2.6	4
5	Design of Satellite Maneuvers for Inertia Parameter Estimation. IFAC-PapersOnLine, 2020, 53, 14894-14899.	0.9	1
6	The Analysis of Vehicleâ€™s In-Flight Behaviour Using Quasi-LPV and Nonlinear Models. , 2019, , .		1
7	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
8	CONTSID: a Matlab toolbox for standard and advanced identification of black-box continuous-time models. IFAC-PapersOnLine, 2018, 51, 688-693.	0.9	20
9	In-Orbit Data Driven Identification of Satellite Inertia Matrix. IFAC-PapersOnLine, 2018, 51, 467-472.	0.9	2
10	Quasi-LPV modelling of a projectileâ€™s behaviour in flight. IFAC-PapersOnLine, 2018, 51, 1080-1085.	0.9	0
11	Frequency domain identification of continuous-time output-error models with time-delay from relay feedback tests. Automatica, 2018, 98, 180-189.	5.0	10
12	Issues in separable identification of continuous-time models with time-delay. Automatica, 2018, 94, 258-273.	5.0	24
13	EM-based identification of continuous-time ARMA Models from irregularly sampled data. Automatica, 2017, 77, 293-301.	5.0	22
14	A live network AS-level traffic characterization. , 2017, , .		3
15	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
16	An as-level approach to network traffic analysis and modelling. , 2017, , .		1
17	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
18	An RKHS Approach to Controlling Smoothness in Nonparametric LPV-IO Identification. IFAC-PapersOnLine, 2017, 50, 11397-11402.	0.9	0

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19	How We Spend Our Time Online: Predicting Network Traffic Using System Identification. IFAC-PapersOnLine, 2017, 50, 14125-14130.	0.9	1
20	An RKHS approach to systematic kernel selection in nonlinear system identification. , 2016, , .		4
21	The impact of smoothness on model class selection in nonlinear system identification: An application of derivatives in the RKHS. , 2016, , .		4
22	Version 7.0 of the CONTSID toolbox. IFAC-PapersOnLine, 2015, 48, 757-762.	0.9	4
23	Identifying dynamical models of nitrate propagation in agricultural drinking water: how can we help agronomists?. IFAC-PapersOnLine, 2015, 48, 350-355.	0.9	0
24	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
25	Closed-loop identification of continuous-time systems from non-uniformly sampled data. , 2014, , .		3
26	Refined IV-based method for LPV partial differential equation model identification. , 2014, , .		1
27	Parameter and time-delay identification of continuous-time models from non-uniformly sampled data. , 2014, , .		2
28	Instrumental variable methods for identifying partial differential equation models. International Journal of Control, 2013, 86, 2325-2335.	1.9	14
29	Refined instrumental variable method for Hammersteinâ€“Wiener continuousâ€time model identification. IET Control Theory and Applications, 2013, 7, 1276-1286.	2.1	35
30	Frequency-domain instrumental variable based method for wide band system identification. , 2013, , .		5
31	Identification of LPV partial differential equation models. , 2013, , .		2
32	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
33	Instrumental variable scheme for closed-loop LPV model identification. Automatica, 2012, 48, 2314-2320.	5.0	48
34	Refined Instrumental Variable Methods for Hammerstein Box-Jenkins Models. , 2012, , 27-47.		1
35	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
36	Survey of analytical IV estimates for errors-in-variables model identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13098-13103.	0.4	13

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37	Optimal instrumental variable method for closed-loop identification. IET Control Theory and Applications, 2011, 5, 1147-1154.	2.1	58
38	Direct identification of continuous-time linear parameter-varying input/output models. IET Control Theory and Applications, 2011, 5, 878-888.	2.1	29
39	Refined instrumental variable methods for identification of LPV Boxâ€“Jenkins models. Automatica, 2010, 46, 959-967.	5.0	141
40	Refined instrumental variable methods for identifying hammerstein models operating in closed loop. , 2009, , .		10
41	Unifying some higher-order statistic-based methods for errors-in-variables model identification. Automatica, 2009, 45, 1937-1942.	5.0	7
42	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
43	Third-order cumulants based methods for continuous-time errors-in-variables model identification. Automatica, 2008, 44, 647-658.	5.0	37
44	The CONTSID Toolbox: A Software Support for Data-based Continuous-time Modelling. Advances in Industrial Control, 2008, , 249-290.	0.5	20
45	Refined instrumental variable methods for identification of Hammerstein continuous-time Box-Jenkins models. , 2008, , .		19
46	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
47	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
48	Refined Instrumental Variable Identification of Continuous-time Hybrid Box-Jenkins Models. , 2008, , 91-131.		33
49	Instrumental Variable Methods for Closed-loop Continuous-time Model Identification. Advances in Industrial Control, 2008, , 133-160.	0.5	16
50	Continuous-time model identification from noisy input/output measurements using fourth-order cumulants. , 2007, , .		9
51	Subspace based methods for continuous-time model identification of MIMO systems from filtered sampled data. , 2007, , .		15
52	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
53	LATEST DEVELOPMENTS FOR THE MATLAB CONTSID TOOLBOX. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 714-719.	0.4	25
54	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

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55	SUBSPACE-BASED OPTIMAL IV METHOD FOR CLOSED-LOOP SYSTEM IDENTIFICATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1068-1073.	0.4	7
56	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
57	A BAYESIAN APPROACH TO CLOSED-LOOP SYSTEM IDENTIFICATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 644-649.	0.4	2
58	Instrumental variable methods for closed-loop system identification. Automatica, 2005, 41, 241-249.	5.0	114
59	Instrumental variable methods for continuous-time model identification in closed-loop. , 2004, , .		7
60	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
61	IV methods for closed-loop system identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 513-518.	0.4	6
62	Developments for the matlab contsid toolbox. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 969-974.	0.4	23
63	On the relation between a bias-eliminated least-squares (BELS) and an IV estimator in closed-loop identification. Automatica, 2001, 37, 1593-1600.	5.0	46
64	A bias-eliminated least-squares method for continuous-time model identification of closed-loop systems. International Journal of Control, 2000, 73, 38-48.	1.9	45
65	Closed-loop system identification via a tailor-made IV method. , 0, , .		0