

Paul Mj Van Den Hof

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89
papers

1,801
citations

19
h-index

41
g-index

91
ext. papers

2,078
ext. citations

3.7
avg, IF

4.89
L-index

#	Paper	IF	Citations
89	Identification and control [Closed-loop issues. <i>Automatica</i> , 1995 , 31, 1751-1770	5.7	313
88	System identification with generalized orthonormal basis functions. <i>Automatica</i> , 1995 , 31, 1821-1834	5.7	207
87	An indirect method for transfer function estimation from closed loop data. <i>Automatica</i> , 1993 , 29, 1523-1527	5.7	169
86	Identification of dynamic models in complex networks with prediction error methods [Basic methods for consistent module estimates. <i>Automatica</i> , 2013 , 49, 2994-3006	5.7	126
85	Model-based control of multiphase flow in subsurface oil reservoirs. <i>Journal of Process Control</i> , 2008 , 18, 846-855	3.9	102
84	Quantification of uncertainty in transfer function estimation: a mixed probabilistic-worst-case approach. <i>Automatica</i> , 1995 , 31, 543-557	5.7	69
83	Identification of Normalised Coprime Plant Factors from Closed-loop Experimental Data. <i>European Journal of Control</i> , 1995 , 1, 62-74	2.5	63
82	A comparison of nonlinear observers for output feedback model-based control of seeded batch crystallization processes. <i>Journal of Process Control</i> , 2011 , 21, 652-666	3.9	55
81	A control oriented study on the numerical solution of the population balance equation for crystallization processes. <i>Chemical Engineering Science</i> , 2009 , 64, 4262-4277	4.4	54
80	Relations between uncertainty structures in identification for robust control. <i>Automatica</i> , 2005 , 41, 439-457	5.7	53
79	Identifiability of linear dynamic networks. <i>Automatica</i> , 2018 , 89, 247-258	5.7	41
78	Errors-in-variables identification in dynamic networks [Consistency results for an instrumental variable approach. <i>Automatica</i> , 2015 , 62, 39-50	5.7	39
77	Approximate identification with closed-loop performance criterion and application to LQG feedback design. <i>Automatica</i> , 1994 , 30, 679-690	5.7	33
76	Identifiability in dynamic network identification. <i>IFAC-PapersOnLine</i> , 2015 , 48, 1409-1414	0.7	27
75	Test for local structural identifiability of high-order non-linearly parametrized state space models. <i>Automatica</i> , 1996 , 32, 875-883	5.7	24
74	Data-driven model improvement for model-based control. <i>Automatica</i> , 2015 , 52, 118-124	5.7	22
73	Consistent parameter bounding identification for linearly parametrized model sets. <i>Automatica</i> , 1995 , 31, 957-969	5.7	22

72	Prediction error identification of linear dynamic networks with rank-reduced noise. <i>Automatica</i> , 2018 , 98, 256-268	5.7	21
71	Controller tuning freedom under plant identification uncertainty: double Youla beats gap in robust stability. <i>Automatica</i> , 2003 , 39, 325-333	5.7	19
70	A virtual closed loop method for closed loop identification. <i>Automatica</i> , 2011 , 47, 1626-1637	5.7	17
69	Identifiability: from qualitative analysis to model structure approximation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 664-669		15
68	Minimal partial realization from generalized orthonormal basis function expansions. <i>Automatica</i> , 2002 , 38, 655-669	5.7	12
67	Local Module Identification in Dynamic Networks Using Regularized Kernel-Based Methods 2018 ,		12
66	A variance reduction technique for identification in dynamic networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 2842-2847		11
65	Risk management in oil reservoir water-flooding under economic uncertainty 2015 ,		11
64	Dynamic network structure identification with prediction error methods - basic examples. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 876-881		11
63	Determining Identifiable Parameterizations for Large-scale Physical Models in Reservoir Engineering. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 11421-11426 ¹¹		11
62	Analysis of Closed-Loop Identification with a Tailor-Made Parameterization. <i>European Journal of Control</i> , 2000 , 6, 54-62	2.5	11
61	Identification of dynamic networks operating in the presence of algebraic loops 2016 ,		11
60	Data-driven and model-based verification via Bayesian identification and reachability analysis. <i>Automatica</i> , 2017 , 79, 115-126	5.7	10
59	Conditions for handling confounding variables in dynamic networks * *The work of A. Dankers is supported by Mitacs of Canada. The work of P. Van den Hof and H. Weerts is supported by the European Research Council (ERC), Advanced Research Grant SYSDYNET, under the European Union Horizon 2020 research and innovation programme (grant agreement No 694504). <i>IFAC PapersOnLine</i> , 2017, 50, 3983-3988	0.7	10
58	Identifiability of dynamic networks with part of the nodes noise-free. <i>IFAC-PapersOnLine</i> , 2016 , 49, 19-24.7	4.7	10
57	Model and Economic Uncertainties in Balancing Short-Term and Long-Term Objectives in Water-Flooding Optimization 2015 ,		9
56	Allocation of Excitation Signals for Generic Identifiability of Dynamic Networks 2019 ,		8
55	Dynamic network identification using the direct prediction-error method 2012 ,		7

54	Recent developments in model-based optimization and control of subsurface flow in oil reservoirs. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 189-200		7
53	Refined Instrumental Variable methods for closed-loop system identification. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 284-289		7
52	Single Module Identifiability in Linear Dynamic Networks 2018 ,		7
51	Identification in dynamic networks. <i>Computers and Chemical Engineering</i> , 2018 , 109, 23-29	4	6
50	Predictor input selection for two stage identification in dynamic networks 2013 ,		6
49	Hierarchical Economic Optimization of Oil Production from Petroleum Reservoirs. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 738-743		6
48	Delay structure conditions for identifiability of closed loop systems. <i>Automatica</i> , 1992 , 28, 1047-1050	5-7	6
47	Local module identification in dynamic networks with correlated noise: the full input case 2019 ,		6
46	On Representations of Linear Dynamic Networks. <i>IFAC-PapersOnLine</i> , 2018 , 51, 838-843	0-7	6
45	Batch-to-batch model improvement for cooling crystallization. <i>Control Engineering Practice</i> , 2015 , 41, 72-82	3-9	5
44	Abstractions of linear dynamic networks for input selection in local module identification. <i>Automatica</i> , 2020 , 117, 108975	5-7	5
43	Identification in dynamic networks with known interconnection topology 2012 ,		5
42	Integrated dynamic optimization and control in reservoir engineering using locally identified linear models 2010 ,		5
41	Validity of the standard cross-correlation test for model structure validation. <i>Automatica</i> , 2008 , 44, 1285-1294	5	5
40	PROBABILISTIC MODEL UNCERTAINTY BOUNDING: AN APPROACH WITH FINITE-TIME PERSPECTIVES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 1021-1026		5
39	Errors-in-Variables Identification in Dynamic Networks by an Instrumental Variable Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 2335-2340		4
38	Identification of dynamic networks with rank-reduced process noise * *This work has received funding from the European Research Council (ERC), Advanced Research Grant SYSDYNET, under the European Union Horizon 2020 research and innovation programme (grant agreement No 694504).. <i>IFAC-PapersOnLine</i> , 2017 , 50, 10562-10567	0-7	4
37	Parameter identification in large-scale models for oil and gas production. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 10857-10862		4

36	Model-based control and optimization of large scale physical systems - Challenges in reservoir engineering 2009 ,		4
35	Real-time Dynamic Optimization of Batch Crystallization Processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 3246-3251		4
34	The Hambo Transform: A Signal and System Transform Induced by Generalized Orthonormal Basis Functions. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1996 , 29, 4285-4290		4
33	Excitation allocation for generic identifiability of a single module in dynamic networks: A graphic approach. <i>IFAC-PapersOnLine</i> , 2020 , 53, 40-45	0.7	4
32	Allocation of Excitation Signals for Generic Identifiability of Linear Dynamic Networks. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	4
31	Errors-in-Variables identification in bilaterally coupled systems with application to oil well testing. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 4656-4661		3
30	From closed-loop identification to dynamic networks: Generalization of the direct method 2017 ,		3
29	Non-parametric identification in dynamic networks 2015 ,		3
28	VALIDITY OF THE STANDARD CROSS-CORRELATION TEST FOR MODEL STRUCTURE VALIDATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 898-903		3
27	Model sets and parametrizations for identification of multivariable equation error models. <i>Automatica</i> , 1994 , 30, 433-446	5.7	3
26	Generic identifiability of subnetworks in a linear dynamic network: The full measurement case. <i>Automatica</i> , 2022 , 137, 110093	5.7	3
25	A sequential least squares algorithm for ARMAX dynamic network identification. <i>IFAC-PapersOnLine</i> , 2018 , 51, 844-849	0.7	3
24	Tensor-based reduced order modeling in reservoir engineering: An application to production optimization. <i>IFAC-PapersOnLine</i> , 2015 , 48, 254-259	0.7	2
23	Batch-to-batch strategies for cooling crystallization 2012 ,		2
22	Towards Integrated Design of a Robust Feedback Controller and Topography Estimator for Atomic Force Microscopy. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 12709-12714		2
21	Identification and Control - Closed Loop Issues. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1994 , 27, 311-323		2
20	A Bayesian method for inference of effective connectivity in brain networks for detecting the Mozart effect. <i>Computers in Biology and Medicine</i> , 2020 , 127, 104055	7	2
19	Learning linear modules in a dynamic network using regularized kernel-based methods. <i>Automatica</i> , 2021 , 129, 109591	5.7	2

18	Advanced autonomous model-based operation of industrial process systems (Autoprofit): Technological developments and future perspectives. <i>Annual Reviews in Control</i> , 2016 , 42, 126-142	10.3	2
17	A dynamic network approach to identification of physical systems 2019 ,		2
16	A frequency domain approach for local module identification in dynamic networks. <i>Automatica</i> , 2022 , 142, 110370	5.7	2
15	An adaptive robust optimization scheme for water-flooding optimization in oil reservoirs using residual analysis * *The authors acknowledge financial support from the Recovery Factory program sponsored by Shell Global Solutions International.. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11275-11280	0.7	1
14	Handling risk of uncertainty in model-based production optimization: a robust hierarchical approach. <i>IFAC-PapersOnLine</i> , 2015 , 48, 248-253	0.7	1
13	Prediction error identification with rank-reduced output noise 2017 ,		1
12	Lexicographic optimization of multiple economic objectives in oil production from petroleum reservoirs 2010 ,		1
11	Connecting System Identification and Robust Control by a Factorization Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997 , 30, 131-136		1
10	Relation between uncertainty structures in identification for robust control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 33-38		1
9	Control-Relevant Uncertainty Modelling Directed Towards Performance Robustness. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1996 , 29, 4034-4039		1
8	On dynamic network modeling of stationary multivariate processes. <i>IFAC-PapersOnLine</i> , 2018 , 51, 850-855	5.7	1
7	Scalable distributed H2 controller synthesis for interconnected linear discrete-time systems. <i>IFAC-PapersOnLine</i> , 2021 , 54, 66-71	0.7	0
6	Handling unmeasured disturbances in data-driven distributed control with virtual reference feedback tuning. <i>IFAC-PapersOnLine</i> , 2021 , 54, 204-209	0.7	0
5	Asymptotic Variance Expressions for Closed-Loop Identification and Their Relevance in Identification for Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1997 , 30, 1393-1398		
4	Validation Test Based Parameter Uncertainty Versus Analysis-Based Confidence Bounds. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 1825-1830		
3	CONTROLLER TUNING FREEDOM UNDER PLANT IDENTIFICATION UNCERTAINTY: DOUBLE YOULA BEATS GAP IN ROBUST STABILITY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 259-264		
2	A recursive estimation approach to distributed identification of large-scale multi-input-single-output FIR systems. <i>IFAC-PapersOnLine</i> , 2018 , 51, 236-241	0.7	
1	A scalable multi-step least squares method for network identification with unknown disturbance topology. <i>Automatica</i> , 2022 , 141, 110295	5.7	

