

Paul Mj Van Den Hof

List of Publications by Year in descending order

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91
papers

2,536
citations

331259

21
h-index

214527

47
g-index

91
all docs

91
docs citations

91
times ranked

979
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and control " Closed-loop issues. Automatica, 1995, 31, 1751-1770.	3.0	382
2	System identification with generalized orthonormal basis functions. Automatica, 1995, 31, 1821-1834.	3.0	271
3	An indirect method for transfer function estimation from closed loop data. Automatica, 1993, 29, 1523-1527.	3.0	205
4	Identification of dynamic models in complex networks with prediction error methods"Basic methods for consistent module estimates. Automatica, 2013, 49, 2994-3006.	3.0	163
5	Identification and Control - Closed Loop Issues. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1994, 27, 311-323.	0.4	141
6	Model-based control of multiphase flow in subsurface oil reservoirs. Journal of Process Control, 2008, 18, 846-855.	1.7	121
7	Identification of Normalised Coprime Plant Factors from Closed-loop Experimental Data. European Journal of Control, 1995, 1, 62-74.	1.6	84
8	Quantification of uncertainty in transfer function estimation: a mixed probabilistic-worst-case approach. Automatica, 1995, 31, 543-557.	3.0	82
9	A comparison of nonlinear observers for output feedback model-based control of seeded batch crystallization processes. Journal of Process Control, 2011, 21, 652-666.	1.7	66
10	A control oriented study on the numerical solution of the population balance equation for crystallization processes. Chemical Engineering Science, 2009, 64, 4262-4277.	1.9	63
11	Identifiability of linear dynamic networks. Automatica, 2018, 89, 247-258.	3.0	62
12	Relations between uncertainty structures in identification for robust control. Automatica, 2005, 41, 439-457.	3.0	61
13	Errors-in-variables identification in dynamic networks " Consistency results for an instrumental variable approach. Automatica, 2015, 62, 39-50.	3.0	48
14	Approximate identification with closed-loop performance criterion and application to LQG feedback design. Automatica, 1994, 30, 679-690.	3.0	41
15	Identifiability in dynamic network identification. IFAC-PapersOnLine, 2015, 48, 1409-1414.	0.5	35
16	Test for local structural identifiability of high-order non-linearly parametrized state space models. Automatica, 1996, 32, 875-883.	3.0	33
17	Prediction error identification of linear dynamic networks with rank-reduced noise. Automatica, 2018, 98, 256-268.	3.0	32
18	Consistent parameter bounding identification for linearly parametrized model sets. Automatica, 1995, 31, 957-969.	3.0	30

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19	A virtual closed loop method for closed loop identification. Automatica, 2011, 47, 1626-1637.	3.0	30
20	Data-driven model improvement for model-based control. Automatica, 2015, 52, 118-124.	3.0	29
21	Controller tuning freedom under plant identification uncertainty: double Youla beats gap in robust stability. Automatica, 2003, 39, 325-333.	3.0	26
22	Determining Identifiable Parameterizations for Large-scale Physical Models in Reservoir Engineering. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 11421-11426.	0.4	20
23	The Hambo Transform: A Signal and System Transform Induced by Generalized Orthonormal Basis Functions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 4285-4290.	0.4	19
24	Identifiability: from qualitative analysis to model structure approximation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 664-669.	0.4	19
25	Data-driven and model-based verification via Bayesian identification and reachability analysis. Automatica, 2017, 79, 115-126.	3.0	17
26	Minimal partial realization from generalized orthonormal basis function expansions. Automatica, 2002, 38, 655-669.	3.0	16
27	Analysis of Closed-Loop Identification with a Tailor-Made Parameterization. European Journal of Control, 2000, 6, 54-62.	1.6	15
28	Dynamic network structure identification with prediction error methods - basic examples. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 876-881.	0.4	15
29	Conditions for handling confounding variables in dynamic networks ¹ 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's Horizon 2020 research and innovation programme (grant agreement No 694504).. IFAC-PapersOnLine, 2017, 50, 3983-3988.	0.5	14
30	Identification of dynamic networks operating in the presence of algebraic loops. , 2016, , .		13
31	Local Module Identification in Dynamic Networks Using Regularized Kernel-Based Methods. , 2018, , .		13
32	Recent developments in model-based optimization and control of subsurface flow in oil reservoirs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 189-200.	0.4	12
33	Model and Economic Uncertainties in Balancing Short-Term and Long-Term Objectives in Water-Flooding Optimization. , 2015, , .		12
34	Allocation of Excitation Signals for Generic Identifiability of Dynamic Networks. , 2019, , .		12
35	Abstractions of linear dynamic networks for input selection in local module identification. Automatica, 2020, 117, 108975.	3.0	12
36	Allocation of Excitation Signals for Generic Identifiability of Linear Dynamic Networks. IEEE Transactions on Automatic Control, 2022, 67, 692-705.	3.6	12

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37	A variance reduction technique for identification in dynamic networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2842-2847.	0.4	11
38	Risk management in oil reservoir water-flooding under economic uncertainty. , 2015, , .		11
39	Identifiability of dynamic networks with part of the nodes noise-free. IFAC-PapersOnLine, 2016, 49, 19-24.	0.5	11
40	Single Module Identifiability in Linear Dynamic Networks. , 2018, , .		11
41	Local module identification in dynamic networks with correlated noise: the full input case. , 2019, , .		11
42	Learning linear modules in a dynamic network using regularized kernel-based methods. Automatica, 2021, 129, 109591.	3.0	11
43	Asymptotic Variance Expressions for Closed-Loop Identification and Their Relevance in Identification for Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 1393-1398.	0.4	10
44	Identification in dynamic networks with known interconnection topology. , 2012, , .		9
45	Validity of the standard cross-correlation test for model structure validation. Automatica, 2008, 44, 1285-1294.	3.0	8
46	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
47	Tensor-based reduced order modeling in reservoir engineering: An application to production optimization—The authors acknowledge financial support from the Recovery Factory program sponsored by Shell Global Solutions International.. IFAC-PapersOnLine, 2015, 48, 254-259.	0.5	8
48	A sequential least squares algorithm for ARMAX dynamic network identification. IFAC-PapersOnLine, 2018, 51, 844-849.	0.5	8
49	On Representations of Linear Dynamic Networks. IFAC-PapersOnLine, 2018, 51, 838-843.	0.5	8
50	Generic identifiability of subnetworks in a linear dynamic network: The full measurement case. Automatica, 2022, 137, 110093.	3.0	8
51	Delay structure conditions for identifiability of closed loop systems. Automatica, 1992, 28, 1047-1050.	3.0	7
52	PROBABILISTIC MODEL UNCERTAINTY BOUNDING: AN APPROACH WITH FINITE-TIME PERSPECTIVES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1021-1026.	0.4	7
53	Integrated dynamic optimization and control in reservoir engineering using locally identified linear models. , 2010, , .		7
54	Dynamic network identification using the direct prediction-error method. , 2012, , .		7

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55	Errors-in-Variables Identification in Dynamic Networks by an Instrumental Variable Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2335-2340.	0.4	7
56	Identification in dynamic networks. Computers and Chemical Engineering, 2018, 109, 23-29.	2.0	7
57	Excitation allocation for generic identifiability of a single module in dynamic networks: A graphic approach. IFAC-PapersOnLine, 2020, 53, 40-45.	0.5	7
58	A scalable multi-step least squares method for network identification with unknown disturbance topology. Automatica, 2022, 141, 110295.	3.0	7
59	Real-time Dynamic Optimization of Batch Crystallization Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3246-3251.	0.4	6
60	Hierarchical Economic Optimization of Oil Production from Petroleum Reservoirs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 738-743.	0.4	6
61	Predictor input selection for two stage identification in dynamic networks. , 2013, , .		6
62	Batch-to-batch model improvement for cooling crystallization. Control Engineering Practice, 2015, 41, 72-82.	3.2	6
63	A frequency domain approach for local module identification in dynamic networks. Automatica, 2022, 142, 110370.	3.0	6
64	Connecting System Identification and Robust Control by a Factorization Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 131-136.	0.4	5
65	Towards Integrated Design of a Robust Feedback Controller and Topography Estimator for Atomic Force Microscopy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12709-12714.	0.4	5
66	Parameter identification in large-scale models for oil and gas production. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10857-10862.	0.4	5
67	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's Horizon 2020 research and innovation programme (grant agreement No 694504).. IFAC-PapersOnLine, 2017, 50, 10562-10567.	0.5	5
68	From closed-loop identification to dynamic networks: Generalization of the direct method. , 2017, , .		5
69	A dynamic network approach to identification of physical systems. , 2019, , .		5
70	A Bayesian method for inference of effective connectivity in brain networks for detecting the Mozart effect. Computers in Biology and Medicine, 2020, 127, 104055.	3.9	5
71	Control-Relevant Uncertainty Modelling Directed Towards Performance Robustness. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 4034-4039.	0.4	4
72	CONTROLLER TUNING FREEDOM UNDER PLANT IDENTIFICATION UNCERTAINTY: DOUBLE YOULA BEATS GAP IN ROBUST STABILITY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 259-264.	0.4	4

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73	Relation between uncertainty structures in identification for robust control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 33-38.	0.4	4
74	Model-based control and optimization of large scale physical systems - Challenges in reservoir engineering. , 2009, , .		4
75	Errors-in-Variables identification in bilaterally coupled systems with application to oil well testing. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4656-4661.	0.4	4
76	Advanced autonomous model-based operation of industrial process systems (Autoprofit): Technological developments and future perspectives. Annual Reviews in Control, 2016, 42, 126-142.	4.4	4
77	Model sets and parametrizations for identification of multivariable equation error models. Automatica, 1994, 30, 433-446.	3.0	3
78	VALIDITY OF THE STANDARD CROSS-CORRELATION TEST FOR MODEL STRUCTURE VALIDATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 898-903.	0.4	3
79	Batch-to-batch strategies for cooling crystallization. , 2012, , .		3
80	Handling risk of uncertainty in model-based production optimization: a robust hierarchical approach. IFAC-PapersOnLine, 2015, 48, 248-253.	0.5	3
81	Non-parametric identification in dynamic networks. , 2015, , .		3
82	Controller identification for data-driven model-reference distributed control. , 2021, , .		3
83	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.. IFAC-PapersOnLine, 2017, 50, 11275-11280.	0.5	2
84	Prediction error identification with rank-reduced output noise. , 2017, , .		2
85	On dynamic network modeling of stationary multivariate processes. IFAC-PapersOnLine, 2018, 51, 850-855.	0.5	2
86	Scalable distributed H2 controller synthesis for interconnected linear discrete-time systems. IFAC-PapersOnLine, 2021, 54, 66-71.	0.5	2
87	Handling unmeasured disturbances in data-driven distributed control with virtual reference feedback tuning. IFAC-PapersOnLine, 2021, 54, 204-209.	0.5	2
88	H _∞ performance analysis and distributed controller synthesis for interconnected linear systems from noisy input-state data. , 2021, , .		2
89	Lexicographic optimization of multiple economic objectives in oil production from petroleum reservoirs. , 2010, , .		1
90	A recursive estimation approach to distributed identification of large-scale multi-input-single-output FIR systems. IFAC-PapersOnLine, 2018, 51, 236-241.	0.5	1

#	ARTICLE	IF	CITATIONS
91	Validation Test Based Parameter Uncertainty Versus Analysis-Based Confidence Bounds. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1825-1830.	0.4	0