Paul Mj Van Den Hof

List of Publications by Year in Descending Order

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	Generic identifiability of subnetworks in a linear dynamic network: The full measurement case. *Automatica*, **2022**, 137, 110093	5.7	3
88	A scalable multi-step least squares method for network identification with unknown disturbance topology. *Automatica*, **2022**, 141, 110295	5.7	
87	A frequency domain approach for local module identification in dynamic networks. *Automatica*, **2022**, 142, 110370	5.7	2
86	Learning linear modules in a dynamic network using regularized kernel-based methods. *Automatica*, **2021**, 129, 109591	5.7	2
85	Scalable distributed H2 controller synthesis for interconnected linear discrete-time systems. *IFAC-PapersOnLine*, **2021**, 54, 66-71	0.7	0
84	Handling unmeasured disturbances in data-driven distributed control with virtual reference feedback tuning. *IFAC-PapersOnLine*, **2021**, 54, 204-209	0.7	0
83	Allocation of Excitation Signals for Generic Identifiability of Linear Dynamic Networks. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	4
82	Abstractions of linear dynamic networks for input selection in local module identification. *Automatica*, **2020**, 117, 108975	5.7	5
81	Excitation allocation for generic identifiability of a single module in dynamic networks: A graphic approach. *IFAC-PapersOnLine*, **2020**, 53, 40-45	0.7	4
80	A Bayesian method for inference of effective connectivity in brain networks for detecting the Mozart effect. *Computers in Biology and Medicine*, **2020**, 127, 104055	7	2
79	Local module identification in dynamic networks with correlated noise: the full input case **2019**,		6
78	A dynamic network approach to identification of physical systems **2019**,		2
77	Allocation of Excitation Signals for Generic Identifiability of Dynamic Networks **2019**,		8
76	Identifiability of linear dynamic networks. *Automatica*, **2018**, 89, 247-258	5.7	41
75	Identification in dynamic networks. *Computers and Chemical Engineering*, **2018**, 109, 23-29	4	6
74	Local Module Identification in Dynamic Networks Using Regularized Kernel-Based Methods **2018**,		12
73	A sequential least squares algorithm for ARMAX dynamic network identification. *IFAC-PapersOnLine*, **2018**, 51, 844-849	0.7	3

72	On Representations of Linear Dynamic Networks. *IFAC-PapersOnLine*, **2018**, 51, 838-843	0.7	6
71	A recursive estimation approach to distributed identification of large-scale multi-input-single-output FIR systems. *IFAC-PapersOnLine*, **2018**, 51, 236-241	0.7	
70	On dynamic network modeling of stationary multivariate processes. *IFAC-PapersOnLine*, **2018**, 51, 850-855	0.7	1
69	Single Module Identifiability in Linear Dynamic Networks **2018**,		7
68	Prediction error identification of linear dynamic networks with rank-reduced noise. *Automatica*, **2018**, 98, 256-268	5.7	21
67	Data-driven and model-based verification via Bayesian identification and reachability analysis. *Automatica*, **2017**, 79, 115-126	5.7	10
66	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	0.7	1
65	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 [illegible] *IFAC-PapersOnLine*, **2017**, 50, 10512-10517	0.7	4
64	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's Horizon 2020 research and innovation programme (grant agreement No 694504).. *IFAC-PapersOnLine*, **2017**, 50, 3983-3988	0.7	10
63	From closed-loop identification to dynamic networks: Generalization of the direct method **2017**,		3
62	Prediction error identification with rank-reduced output noise **2017**,		1
61	Identification of dynamic networks operating in the presence of algebraic loops **2016**,		11
60	Advanced autonomous model-based operation of industrial process systems (Autoprofit): Technological developments and future perspectives. *Annual Reviews in Control*, **2016**, 42, 126-142	10.3	2
59	Identifiability of dynamic networks with part of the nodes noise-free. *IFAC-PapersOnLine*, **2016**, 49, 19-24	0.7	10
58	Batch-to-batch model improvement for cooling crystallization. *Control Engineering Practice*, **2015**, 41, 72-82	3.9	5
57	Tensor-based reduced order modeling in reservoir engineering: An application to production optimization. *IFAC-PapersOnLine*, **2015**, 48, 254-259	0.7	2
56	Errors-in-variables identification in dynamic networks Consistency results for an instrumental variable approach. *Automatica*, **2015**, 62, 39-50	5.7	39
55	Data-driven model improvement for model-based control. *Automatica*, **2015**, 52, 118-124	5.7	22

54	Handling risk of uncertainty in model-based production optimization: a robust hierarchical approach. *IFAC-PapersOnLine*, **2015**, 48, 248-253	0.7	1
53	Identifiability in dynamic network identification. *IFAC-PapersOnLine*, **2015**, 48, 1409-1414	0.7	27
52	Risk management in oil reservoir water-flooding under economic uncertainty **2015**,		11
51	Model and Economic Uncertainties in Balancing Short-Term and Long-Term Objectives in Water-Flooding Optimization **2015**,		9
50	Non-parametric identification in dynamic networks **2015**,		3
49	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		3
48	A variance reduction technique for identification in dynamic networks. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 2842-2847		11
47	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		4
46	Identification of dynamic models in complex networks with prediction error methodsBasic methods for consistent module estimates. *Automatica*, **2013**, 49, 2994-3006	5.7	126
45	Predictor input selection for two stage identification in dynamic networks **2013**,		6
44	Batch-to-batch strategies for cooling crystallization **2012**,		2
43	Dynamic network identification using the direct prediction-error method **2012**,		7
42	Identification in dynamic networks with known interconnection topology **2012**,		5
41	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		7
40	Dynamic network structure identification with prediction error methods - basic examples. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2012**, 45, 876-881		11
39	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		2
38	Parameter identification in large-scale models for oil and gas production. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 10857-10862		4
37	A virtual closed loop method for closed loop identification. *Automatica*, **2011**, 47, 1626-1637	5.7	17

36	A comparison of nonlinear observers for output feedback model-based control of seeded batch crystallization processes. *Journal of Process Control*, **2011**, 21, 652-666	3.9	55
35	Integrated dynamic optimization and control in reservoir engineering using locally identified linear models **2010**,		5
34	Lexicographic optimization of multiple economic objectives in oil production from petroleum reservoirs **2010**,		1
33	A control oriented study on the numerical solution of the population balance equation for crystallization processes. *Chemical Engineering Science*, **2009**, 64, 4262-4277	4.4	54
32	Model-based control and optimization of large scale physical systems - Challenges in reservoir engineering **2009**,		4
31	Refined Instrumental Variable methods for closed-loop system identification. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 284-289		7
30	Identifiability: from qualitative analysis to model structure approximation. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 664-669		15
29	Hierarchical Economic Optimization of Oil Production from Petroleum Reservoirs. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 738-743		6
28	Real-time Dynamic Optimization of Batch Crystallization Processes. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 3246-3251		4
27	Determining Identifiable Parameterizations for Large-scale Physical Models in Reservoir Engineering. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2008**, 41, 11421-11426		11
26	Model-based control of multiphase flow in subsurface oil reservoirs. *Journal of Process Control*, **2008**, 18, 846-855	3.9	102
25	Validity of the standard cross-correlation test for model structure validation. *Automatica*, **2008**, 44, 1285-1294	5.7	5
24	PROBABILISTIC MODEL UNCERTAINTY BOUNDING: AN APPROACH WITH FINITE-TIME PERSPECTIVES. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2006**, 39, 1021-1026		5
23	VALIDITY OF THE STANDARD CROSS-CORRELATION TEST FOR MODEL STRUCTURE VALIDATION. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 898-903		3
22	Relations between uncertainty structures in identification for robust control. *Automatica*, **2005**, 41, 439-457	5.7	53
21	Validation Test Based Parameter Uncertainty Versus Analysis-Based Confidence Bounds. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2003**, 36, 1825-1830		
20	Relation between uncertainty structures in identification for robust control. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2003**, 36, 33-38		1
19	Controller tuning freedom under plant identification uncertainty: double Youla beats gap in robust stability. *Automatica*, **2003**, 39, 325-333	5.7	19

18	Minimal partial realization from generalized orthonormal basis function expansions. *Automatica*, **2002**, 38, 655-669	5.7	12
17	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		
16	Analysis of Closed-Loop Identification with a Tailor-Made Parameterization. *European Journal of Control*, **2000**, 6, 54-62	2.5	11
15	Connecting System Identification and Robust Control by a Factorization Approach. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1997**, 30, 131-136		1
14	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		
13	Control-Relevant Uncertainty Modelling Directed Towards Performance Robustness. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1996**, 29, 4034-4039		1
12	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		4
11	Test for local structural identifiability of high-order non-linearly parametrized state space models. *Automatica*, **1996**, 32, 875-883	5.7	24
10	Identification of Normalised Coprime Plant Factors from Closed-loop Experimental Data. *European Journal of Control*, **1995**, 1, 62-74	2.5	63
9	System identification with generalized orthonormal basis functions. *Automatica*, **1995**, 31, 1821-1834	5.7	207
8	Quantification of uncertainty in transfer function estimation: a mixed probabilistic-worst-case approach. *Automatica*, **1995**, 31, 543-557	5.7	69
7	Identification and control Closed-loop issues. *Automatica*, **1995**, 31, 1751-1770	5.7	313
6	Consistent parameter bounding identification for linearly parametrized model sets. *Automatica*, **1995**, 31, 957-969	5.7	22
5	Model sets and parametrizations for identification of multivariable equation error models. *Automatica*, **1994**, 30, 433-446	5.7	3
4	Approximate identification with closed-loop performance criterion and application to LQG feedback design. *Automatica*, **1994**, 30, 679-690	5.7	33
3	Identification and Control - Closed Loop Issues. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1994**, 27, 311-323		2
2	An indirect method for transfer function estimation from closed loop data. *Automatica*, **1993**, 29, 1523-1527	5.7	169
1	Delay structure conditions for identifiability of closed loop systems. *Automatica*, **1992**, 28, 1047-1050	5.7	6