

Bart De Moor

List of Publications by Year in descending order

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153
papers

4,374
citations

201674

27
h-index

123424

61
g-index

160
all docs

160
docs citations

160
times ranked

4111
citing authors

#	ARTICLE	IF	CITATIONS
1	Benchmarking Least Squares Support Vector Machine Classifiers. Machine Learning, 2004, 54, 5-32.	5.4	596
2	Four qubits can be entangled in nine different ways. Physical Review A, 2002, 65, .	2.5	499
3	Terms, definitions and measurements to describe sonographic features of myometrium and uterine masses: a consensus opinion from the Morphological Uterus Sonographic Assessment (MUSA) group. Ultrasound in Obstetrics and Gynecology, 2015, 46, 284-298.	1.7	461
4	Free p-cresol is associated with cardiovascular disease in hemodialysis patients. Kidney International, 2008, 73, 1174-1180.	5.2	276
5	Subspace identification of Hammerstein systems using least squares support vector machines. IEEE Transactions on Automatic Control, 2005, 50, 1509-1519.	5.7	155
6	An absolute stability criterion for the Lur'e problem with sector and slope restricted nonlinearities. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1998, 45, 1007-1009.	0.1	150
7	Subspace identification of bilinear systems subject to white inputs. IEEE Transactions on Automatic Control, 1999, 44, 1157-1165.	5.7	115
8	Severe Diarrhea in Renal Transplant Patients: Results of the DIDACT Study. American Journal of Transplantation, 2006, 6, 1466-1472.	4.7	109
9	The efficient computation of polyhedral invariant sets for linear systems with polytopic uncertainty. , 0, , .		89
10	An algorithm including results of gray-scale and power Doppler ultrasound examination to predict endometrial malignancy in women with postmenopausal bleeding. Ultrasound in Obstetrics and Gynecology, 2002, 20, 370-376.	1.7	82
11	Kernel based partially linear models and nonlinear identification. IEEE Transactions on Automatic Control, 2005, 50, 1602-1606.	5.7	81
12	SPC: Subspace Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 4004-4009.	0.4	75
13	Evaluation of Distance Metrics and Spatial Autocorrelation in Uniform Manifold Approximation and Projection Applied to Mass Spectrometry Imaging Data. Analytical Chemistry, 2019, 91, 5706-5714.	6.5	75
14	Lur'e systems with multilayer perceptron and recurrent neural networks: absolute stability and dissipativity. IEEE Transactions on Automatic Control, 1999, 44, 770-774.	5.7	64
15	Application of structured total least squares for system identification and model reduction. IEEE Transactions on Automatic Control, 2005, 50, 1490-1500.	5.7	63
16	Ultrasound characteristics of endometrial cancer as defined by International Endometrial Tumor Analysis (IETA) consensus nomenclature: prospective multicenter study. Ultrasound in Obstetrics and Gynecology, 2018, 51, 818-828.	1.7	61
17	The value of tuberculin skin testing in haemodialysis patients. Nephrology Dialysis Transplantation, 2004, 19, 433-438.	0.7	54
18	Knowledge discovery in a direct marketing case using least squares support vector machines. International Journal of Intelligent Systems, 2001, 16, 1023-1036.	5.7	53

#	ARTICLE	IF	CITATIONS
19	Interpolation Based MPC for LPV Systems using Polyhedral Invariant Sets. , 0, , .		50
20	Software-guided versus nurse-directed blood glucose control in critically ill patients: the LOGIC-2 multicenter randomized controlled clinical trial. <i>Critical Care</i> , 2017, 21, 212.	5.8	50
21	Optimizing completely positive maps using semidefinite programming. <i>Physical Review A</i> , 2002, 65, .	2.5	49
22	Trisodium citrate 30% vs heparin 5% as catheter lock in the interdialytic period in twinâ€•or doubleâ€•lumen dialysis catheters for intermittent haemodialysis. <i>Nephrology Dialysis Transplantation</i> , 2001, 16, 1521-1522.	0.7	47
23	Towards Online Model Predictive Control on a Programmable Logic Controller: Practical Considerations. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-20.	1.1	45
24	On the geometry of entangled states. <i>Journal of Modern Optics</i> , 2002, 49, 1277-1287.	1.3	42
25	Subclavian Vein Hemodialysis Catheters: Advantages and Disadvantages. <i>Artificial Organs</i> , 1994, 18, 293-297.	1.9	39
26	Functional bioinformatics of microarray data: from expression to regulation. <i>Proceedings of the IEEE</i> , 2002, 90, 1722-1743.	21.3	37
27	Multiclass LS-SVMs: Moderated Outputs and Coding-Decoding Schemes. <i>Neural Processing Letters</i> , 2002, 15, 45-58.	3.2	34
28	Identification of positive real models in subspace identification by using regularization. <i>IEEE Transactions on Automatic Control</i> , 2003, 48, 1843-1847.	5.7	33
29	Current animal models for the study of congestion in heart failure: an overview. <i>Heart Failure Reviews</i> , 2019, 24, 387-397.	3.9	32
30	Prioritization of <i>m/z</i> -Values in Mass Spectrometry Imaging Profiles Obtained Using Uniform Manifold Approximation and Projection for Dimensionality Reduction. <i>Analytical Chemistry</i> , 2020, 92, 5240-5248.	6.5	30
31	Data-driven Derivation and Validation of Novel Phenotypes for Acute Kidney Transplant Rejection using Semi-supervised Clustering. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 1084-1096.	6.1	28
32	Selective abdominal venous congestion induces adverse renal and hepatic morphological and functional alterations despite a preserved cardiac function. <i>Scientific Reports</i> , 2018, 8, 17757.	3.3	26
33	Model-free subspace-based LQG-design. , 1999, , .		25
34	Modelling the Belgian gas consumption using neural networks. <i>Neural Processing Letters</i> , 1996, 4, 157-166.	3.2	24
35	Mortality in Individuals Treated With Glucose-Lowering Agents: A Large, Controlled Cohort Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 461-469.	3.6	23
36	PROSPECTIVE EXPLORATION OF BIOCHEMICAL TISSUE COMPOSITION VIA IMAGING MASS SPECTROMETRY GUIDED BY PRINCIPAL COMPONENT ANALYSIS. , 2006, , .		23

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37	Bankruptcy prediction with least squares support vector machine classifiers. , 0, , .		22
38	Modeling of Effect of Glucose Sensor Errors on Insulin Dosage and Glucose Bolus Computed by LOGIC-Insulin. Clinical Chemistry, 2014, 60, 1510-1518.	3.2	22
39	International Endometrial Tumor Analysis (IETA) terminology in women with postmenopausal bleeding and sonographic endometrial thicknessâ€™â€™â€™4.5â€™â€™mm: agreement and reliability study. Ultrasound in 1.7 Obstetrics and Gynecology, 2018, 51, 259-268.		20
40	Haemodynamic or metabolic stimulation tests to reveal the renal functional response: requiem or revival?. CKJ: Clinical Kidney Journal, 2018, 11, 623-654.	2.9	20
41	Spatially aware clustering of ion images in mass spectrometry imaging data using deep learning. Analytical and Bioanalytical Chemistry, 2021, 413, 2803-2819.	3.7	20
42	Clustering time series, subspace identification and cepstral distances. Communications in Information and Systems, 2005, 5, 69-96.	0.5	20
43	OPTIMAL CONTROL OF THE PENICILLIN G FED-BATCH FERMENTATION: AN ANALYSIS OF A MODIFIED UNSTRUCTURED MODEL. Chemical Engineering Communications, 1992, 117, 337-353.	2.6	19
44	Optimal control of the penicillin G fedâ€™batch fermentation: An analysis of the model of heijnen <i>et al.</i>. Optimal Control Applications and Methods, 1994, 15, 13-34.	2.1	18
45	Non-concave fundamental diagrams and phase transitions in a stochastic traffic cellular automaton. European Physical Journal B, 2004, 42, 131-140.	1.5	18
46	Clinical Data Miner: An Electronic Case Report Form System With Integrated Data Preprocessing and Machine-Learning Libraries Supporting Clinical Diagnostic Model Research. JMIR Medical Informatics, 2014, 2, e28.	2.6	18
47	Do material transfer agreements affect the choice of research agendas? The case of biotechnology in Belgium. Scientometrics, 2007, 71, 239-269.	3.0	17
48	Bayesian networks in ovarian cancer diagnosis: potentials and limitations. , 0, , .		16
49	Automatic relevance determination for least squares support vector machine regression. , 0, , .		15
50	External Validation of a risk stratification model to assist shared decision making for patients starting renal replacement therapy. BMC Nephrology, 2016, 17, 41.	1.8	14
51	The structured total least-squares approach for non-linearly structured matrices. Numerical Linear Algebra With Applications, 2002, 9, 321-332.	1.6	13
52	A QR-type reduction for computing the SVD of a general matrix product/quotient. Numerische Mathematik, 2003, 95, 101-121.	1.9	13
53	Flood control of rivers with nonlinear model predictive control and moving horizon estimation. , 2010, , .		13
54	Multiplex immunoassays in endometriosis An array of possibilities. Frontiers in Bioscience - Landmark, 2017, 22, 479-492.	3.0	13

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55	Multidimensional realisation theory and polynomial system solving. International Journal of Control, 2018, 91, 2692-2704.	1.9	13
56	Primal space sparse kernel partial least squares regression for large scale problems. , 0, , .		12
57	A mathematical comparison of non-negative matrix factorization related methods with practical implications for the analysis of mass spectrometry imaging data. Rapid Communications in Mass Spectrometry, 2021, 35, e9181.	1.5	12
58	An automated data cleaning method for Electronic Health Records by incorporating clinical knowledge. BMC Medical Informatics and Decision Making, 2021, 21, 267.	3.0	12
59	Subsystem identification for nonlinear model updating. , 2006, , .		10
60	Robust synthesis of constrained linear state feedback using LMIs and polyhedral invariant sets. , 2006, , .		10
61	Predicting breast cancer using an expression values weighted clinical classifier. BMC Bioinformatics, 2014, 15, 411.	2.6	10
62	A convexity-based homotopy method for nonlinear optimization in model predictive control. Optimal Control Applications and Methods, 2010, 31, 393-414.	2.1	9
63	Nuclear norm regularization for overparametrized Hammerstein systems. , 2010, , .		9
64	Exercise intervention in hospitalized heart failure patients, with emphasis on congestion-related complications: a review. Heart Failure Reviews, 2020, 25, 257-268.	3.9	9
65	Least squares support vector machine regression for discriminant analysis. , 0, , .		8
66	Positive Polynomial Constraints for POD-based Model Predictive Controllers. IEEE Transactions on Automatic Control, 2009, 54, 988-999.	5.7	8
67	A structure exploiting interior-point method for moving horizon estimation. , 2009, , .		8
68	Implementation and experimental validation of classic MPC on Programmable Logic Controllers. , 2012, , .		8
69	ACE-inhibition induces a cardioprotective transcriptional response in the metabolic syndrome heart. Scientific Reports, 2018, 8, 16169.	3.3	8
70	Development of Multimorbidity Over Time: An Analysis of Belgium Primary Care Data Using Markov Chains and Weighted Association Rule Mining. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 1234-1241.	3.6	8
71	Correspondence-Aware Manifold Learning for Microscopic and Spatial Omics Imaging: A Novel Data Fusion Method Bringing Mass Spectrometry Imaging to a Cellular Resolution. Analytical Chemistry, 2021, 93, 3452-3460.	6.5	8
72	Advances in Cluster Analysis of Microarray Data. , 2005, , 153-173.		7

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73	A new approach for the identification of hidden Markov models. , 2007, , .		7
74	Coxsackievirus B1 peritonitis in a patient treated with continuous ambulatory peritoneal dialysis: a case report and brief review of the literature. <i>Clinical Microbiology and Infection</i> , 2012, 18, E431-E434.	6.0	7
75	A Global Risk Score (GRS) to Simultaneously Predict Early and Late Tumor Recurrence Risk after Resection of Hepatocellular Carcinoma. <i>Translational Oncology</i> , 2016, 9, 139-146.	3.7	7
76	Increased Intra-Abdominal Pressure During Laparoscopic Pneumoperitoneum Enhances Albuminuria via Renal Venous Congestion, Illustrating Pathophysiological Aspects of High Output Preeclampsia. <i>Journal of Clinical Medicine</i> , 2020, 9, 487.	2.4	7
77	An ensemble-based feature selection framework to select risk factors of childhood obesity for policy decision making. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 222.	3.0	7
78	Annotated Bayesian networks: a tool to integrate textual and probabilistic medical knowledge. , 0, , .		6
79	Model Reduction of Systems with Symmetries. , 0, , .		6
80	Matrix Factorization and Stochastic State Representations. , 2006, , .		6
81	Linear parametric noise models for Least Squares Support Vector Machines. , 2010, , .		6
82	Optimizing the ultrasound visualization of the endometrial-myometrial junction (EMJ). <i>Facts, Views & Vision in ObGyn</i> , 2015, 7, 60-3.	1.1	6
83	H 2 Model Reduction for SISO Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1993, 26, 895-898.	0.4	5
84	Nonlinear System Identification Using Multilayer Neural Networks: Some Ideas for Initial Weights, Number of Hidden Neurons and Error Criteria. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1993, 26, 345-348.	0.4	5
85	Data-based Subsystem Identification for Dynamic Model Updating. , 2006, , .		5
86	Learning with Heterogenous Data Sets by Weighted Multiple Kernel Canonical Correlation Analysis. <i>IEEE International Workshop on Machine Learning for Signal Processing</i> , 2007, , .	0.0	5
87	Polytopic invariant sets for continuous-time systems. , 2007, , .		5
88	Polynomial componentwise LS-SVM: Fast variable selection using low rank updates. , 2010, , .		5
89	Decomposition-Residuals Neural Networks: Hybrid System Identification Applied to Electricity Demand Forecasting. <i>IEEE Open Access Journal of Power and Energy</i> , 2022, 9, 241-253.	3.4	5
90	A Resampling Method to Improve the Prognostic Model of End-Stage Kidney Disease: A Better Strategy for Imbalanced Data. <i>Frontiers in Medicine</i> , 2022, 9, 730748.	2.6	5

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91	Trade-offs in linear control system design: A practical example. Optimal Control Applications and Methods, 1992, 13, 121-144.	2.1	4
92	More on local influence in principal components analysis. Communications in Statistics - Theory and Methods, 1999, 28, 2487-2495.	1.0	4
93	Bayesian inference for LS-SVMs on large data sets using the Nystrom method. , 0, , .		4
94	The PeopleMover educational project - design, simulation, and implementation of a real control system application. IEEE Control Systems, 2004, 24, 83-87.	0.8	4
95	Acceleration of nonlinear POD models: A neural network approach. , 2009, , .		4
96	Assimilation of ozone measurements in the air quality model AURORA by using the Ensemble Kalman Filter. , 2011, , .		4
97	The acute kidney injury e-alert and clinical care bundles: the road to success is always under construction. Nephrology Dialysis Transplantation, 2016, 31, 1761-1763.	0.7	4
98	Fluctuations of haemoglobinaemia in chronic haemodialysis patients. Acta Clinica Belgica, 2011, 66, 123-8.	1.2	4
99	A simple approximation relation between the symmetric generalized logistic and the students t distributions. Communications in Statistics Part B: Simulation and Computation, 1997, 26, 1029-1039.	1.2	3
100	Misfit versus Latency. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 905-910.	0.4	3
101	Domain knowledge based information retrieval language: an application of annotated Bayesian networks in ovarian cancer domain. , 0, , .		3
102	Software for Approximate Linear System Identification. , 0, , .		3
103	Variable selection by rank-one updates for least squares support vector machines. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	3
104	Information, covariance and square-root filtering in the presence of unknown inputs. , 2007, , .		3
105	A Self-Tuning Genetic Algorithm with Applications in Biomarker Discovery. , 2014, , .		3
106	Long horizon model predictive control for nonlinear industrial processes. , 2003, , .		3
107	System Architecture of a European Platform for Health Policy Decision Making: MIDAS. Frontiers in Public Health, 2022, 10, 838438.	2.7	3
108	On frequency weighted balanced truncation: A constructive counterexample to Enns' conjecture. , 2001, , .		2

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109	Robust finite-horizon MPC using optimal worst-case closed-loop predictions. , 2004, , .		2
110	Linear MPC with time-varying terminal cost using sparse convex combinations and bisection search. , 2004, , .		2
111	A convex approximation for parameter estimation involving parameter-affine dynamic models. , 2009, , .		2
112	Model Predictive Control applied to a river system with two reaches. , 2012, , .		2
113	Robustness of kernel based regression: Influence and weight functions. , 2012, , .		2
114	Modeling of Charge-Trapping/Detrapping-Induced Voltage Instability in High- κ Gate Dielectrics. IEEE Transactions on Device and Materials Reliability, 2012, 12, 152-157.	2.0	2
115	Model predictive control of a pilot-scale distillation column using a programmable automation controller. , 2013, , .		2
116	Interobserver agreement in assessment of polycystic ovarian morphology using pattern recognition. Ultrasound in Obstetrics and Gynecology, 2016, 47, 652-653.	1.7	2
117	Endurance Exercise Intervention Is Beneficial to Kidney Function in a Rat Model of Isolated Abdominal Venous Congestion: a Pilot Study. Journal of Cardiovascular Translational Research, 2020, 13, 769-782.	2.4	2
118	The Bures Metric for Generative Adversarial Networks. Lecture Notes in Computer Science, 2021, , 52-66.	1.3	2
119	Identification and control of a pilot scale binary distillation column. , 2009, , .		2
120	A continuous time power iteration method for computing a lower bound of $\hat{1}/4$. , 0, , .		1
121	Continuous-time algorithms for the Riemannian SVD. , 0, , .		1
122	Web-based data collection for uterine adnexal tumors: a case study. , 0, , .		1
123	Electric potential estimation with line-of-sight measurements using basis function optimization. , 2004, , .		1
124	How To Play Two-Player Restricted Quantum Games with 10 Cards. International Journal of Theoretical Physics, 2008, 47, 61-68.	1.2	1
125	Reduction of the computational burden of POD models with polynomial nonlinearities. , 2010, , .		1
126	OPO8.04: Showing pictograms in electronic data capture software improves interrater agreement. Ultrasound in Obstetrics and Gynecology, 2011, 38, 78-79.	1.7	1

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127	Building decision trees for diagnosing intracavitary uterine pathology. Facts, Views & Vision in ObGyn, 2009, 1, 182-8.	1.1	1
128	An Interactive System Identification Module for Xmath (ISID). , 1993, , .		0
129	Links between NL/sub q/ neural control theory and $\hat{1}/4$ robust control theory. , 0, , .		0
130	Robust NL/sub q/ neural control theory. , 0, , .		0
131	Statistical division based modeling for multimedia network traffic. , 0, , .		0
132	Information measure based stochastic system identification of ATM network traffic. , 1999, , .		0
133	On the Rank Deficiency of the Least Squares Residuals in Subspace Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 247-252.	0.4	0
134	On an Alternative Parameterization of the Solutions of the Partial Realization Problem. Acta Applicandae Mathematicae, 2000, 61, 317-331.	1.0	0
135	Gene Regulation Bioinformatics of Microarray Data. , 0, , 55-98.		0
136	A mutual information based distance for multivariate Gaussian processes. , 2007, , .		0
137	THE NEED FOR CARE COâ€™ORDINATION IN AN AGEING DIALYSIS POPULATION. Journal of Renal Care, 2007, 33, 39-40.	1.2	0
138	A Macroscopic Device for Quantum Computation. International Journal of Theoretical Physics, 2008, 47, 200-211.	1.2	0
139	OC146: Multicenter prospective testing to predict malignancy in adnexal masses using Bayesian network models. Ultrasound in Obstetrics and Gynecology, 2008, 32, 290-290.	1.7	0
140	OC150: Investigation of the performance of mathematical models on small ovarian masses in the IOTA phase 1 and 2 study. Ultrasound in Obstetrics and Gynecology, 2008, 32, 292-292.	1.7	0
141	Algorithm for reducing the number of constraints of POD-based predictive controllers. , 2008, , .		0
142	OP27.07: The relationship between abdominal circumference and umbilical artery Doppler z-scores in severe early onset fetal growth restriction. Ultrasound in Obstetrics and Gynecology, 2009, 34, 151-151.	1.7	0
143	OC04.05: A longitudinal assessment of gestation sac growth in pregnancies subsequently shown to be viable and non-viable. Ultrasound in Obstetrics and Gynecology, 2010, 36, 8-8.	1.7	0
144	P16.04: The influence of symptoms, uncertainty of dates and previous miscarriage on gestation sac growth. Ultrasound in Obstetrics and Gynecology, 2010, 36, 229-229.	1.7	0

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145	OC17.06: Clinical Data Miner (CDM)â€”a webâ€”based electronic data capture framework for multiâ€”centric studies with imaging modalities. Ultrasound in Obstetrics and Gynecology, 2011, 38, 33-33.	1.7	0
146	OP08.01: Image Study Webapp-a web interface for imaging-based interrater agreement studies. Ultrasound in Obstetrics and Gynecology, 2011, 38, 78-78.	1.7	0
147	Identification of a Noninsulated Distillation Column From Transient Response Data. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1382-1391.	4.7	0
148	P0133INCREASED INTRA-ABDOMINAL PRESSURE DURING LAPAROSCOPIC PNEUMOPERITONEUM ENHANCES ALBUMINURIA VIA RENAL VENOUS CONGESTION, ILLUSTRATING PATHOPHYSIOLOGICAL ASPECTS OF HIGH OUTPUT PREECLAMPSIA. Nephrology Dialysis Transplantation, 2020, 35, .	0.7	0
149	UveÃ”tis in de nefrologische praktijk: twee casussen. Tijdschrift Voor Geneeskunde, 2007, 63, 680-685.	0.0	0
150	The quotient SVD and H_{∞} norms. , 1992, , .		0
151	Leverage Score Sampling for Complete Mode Coverage in Generative Adversarial Networks. Lecture Notes in Computer Science, 2022, , 466-480.	1.3	0
152	Nachtelijke hemodialyse. Tijdschrift Voor Geneeskunde, 2002, 58, 1512-1517.	0.0	0
153	Island Transpeciation: A Co-Evolutionary Neural Architecture Search, applied to country-scale air-quality forecasting. IEEE Transactions on Evolutionary Computation, 2022, , 1-1.	10.0	0