Bart De Moor

List of Publications by Year
in descending order

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	Decomposition-Residuals Neural Networks: Hybrid System Identification Applied to Electricity Demand Forecasting. IEEE Open Access Journal of Power and Energy, 2022, 9, 241-253.	3.4	5
2	Leverage Score Sampling for Complete Mode Coverage in Generative Adversarial Networks. Lecture Notes in Computer Science, 2022, , 466-480.	1.3	0
3	System Architecture of a European Platform for Health Policy Decision Making: MIDAS. Frontiers in Public Health, 2022, 10, 838438.	2.7	3
4	A Resampling Method to Improve the Prognostic Model of End-Stage Kidney Disease: A Better Strategy for Imbalanced Data. Frontiers in Medicine, 2022, 9, 730748.	2.6	5
5	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
6	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
7	The Bures Metric for Generative Adversarial Networks. Lecture Notes in Computer Science, 2021, , 52-66.	1.3	2
8	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
9	Data-driven Derivation and Validation of Novel Phenotypes for Acute Kidney Transplant Rejection using Semi-supervised Clustering. Journal of the American Society of Nephrology: JASN, 2021, 32, 1084-1096.	6.1	28
10	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
11	An ensemble-based feature selection framework to select risk factors of childhood obesity for policy decision making. BMC Medical Informatics and Decision Making, 2021, 21, 222.	3.0	7
12	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
13	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
14	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
15	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
16	P0133INCREASED INTRA-ABDOMINAL PRESSURE DURING LAPARASCOPIC PNEUMOPERITONEUM ENHANCES ALBUMINURIA VIA RENAL VENOUS CONGESTION, ILLUSTRATING PATHOPHYSIOLOGICAL ASPECTS OF HIGH OUTPUT PREECLAMPSIA. Nephrology Dialysis Transplantation, 2020, 35, .	0.7	0
17	Prioritization of m/z-Values in Mass Spectrometry Imaging Profiles Obtained Using Uniform Manifold Approximation and Projection for Dimensionality Reduction. Analytical Chemistry, 2020, 92, 5240-5248.	6.5	30
18	Increased Intra-Abdominal Pressure During Laparoscopic Pneumoperitoneum Enhances Albuminuria via Renal Venous Congestion, Illustrating Pathophysiological Aspects of High Output Preeclampsia. Journal of Clinical Medicine, 2020, 9, 487.	2.4	7

#	Article	IF	Citations
19	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
20	Current animal models for the study of congestion in heart failure: an overview. Heart Failure Reviews, 2019, 24, 387-397.	3.9	32
21	International Endometrial Tumor Analysis (IETA) terminology in women with postmenopausal bleeding and sonographic endometrial thicknessâ€‰â‰¥â€‰4.5â€‰mm: agreement and reliability study. Ultrasound in Obstetrics and Gynecology, 2018, 51, 259-268.	1.7	20
22	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
23	Multidimensional realisation theory and polynomial system solving. International Journal of Control, 2018, 91, 2692-2704.	1.9	13
24	Selective abdominal venous congestion induces adverse renal and hepatic morphological and functional alterations despite a preserved cardiac function. Scientific Reports, 2018, 8, 17757.	3.3	26
25	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
26	ACE-inhibition induces a cardioprotective transcriptional response in the metabolic syndrome heart. Scientific Reports, 2018, 8, 16169.	3.3	8
27	Software-guided versus nurse-directed blood glucose control in critically ill patients: the LOGIC-2 multicenter randomized controlled clinical trial. Critical Care, 2017, 21, 212.	5.8	50
28	Multiplex immunoassays in endometriosis An array of possibilities. Frontiers in Bioscience - Landmark, 2017, 22, 479-492.	3.0	13
29	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
30	A Global Risk Score (GRS) to Simultaneously Predict Early and Late Tumor Recurrence Risk after Resection of Hepatocellular Carcinoma. Translational Oncology, 2016, 9, 139-146.	3.7	7
31	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
32	Interobserver agreement in assessment of polycystic ovarian morphology using pattern recognition. Ultrasound in Obstetrics and Gynecology, 2016, 47, 652-653.	1.7	2
33	Mortality in Individuals Treated With Glucose-Lowering Agents: A Large, Controlled Cohort Study. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 461-469.	3.6	23
34	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
35	Optimizing the ultrasound visualization of the endometrial-myometrial junction (EMJ). Facts, Views & Vision in ObGyn, 2015, 7, 60-3.	1.1	6
36	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

#	ARTICLE	IF	CITATIONS
37	Predicting breast cancer using an expression values weighted clinical classifier. BMC Bioinformatics, 2014, 15, 411.	2.6	10
38	A Self-Tuning Genetic Algorithm with Applications in Biomarker Discovery. , 2014, , .		3
39	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
40	Identification of a Noninsulated Distillation Column From Transient Response Data. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1382-1391.	4.7	0
41	Model predictive control of a pilot-scale distillation column using a programmable automation controller. , 2013, , .		2
42	Model Predictive Control applied to a river system with two reaches. , 2012, , .		2
43	Towards Online Model Predictive Control on a Programmable Logic Controller: Practical Considerations. Mathematical Problems in Engineering, 2012, 2012, 1-20.	1.1	45
44	Coxsackievirus B1 peritonitis in a patient treated with continuous ambulatory peritoneal dialysis: a case report and brief review of the literature. Clinical Microbiology and Infection, 2012, 18, E431-E434.	6.0	7
45	Implementation and experimental validation of classic MPC on Programmable Logic Controllers. , 2012, , .		8
46	Robustness of kernel based regression: Influence and weight functions. , 2012, , .		2
47	Modeling of Charge-Trapping/Detrapping-Induced Voltage Instability in High- k Gate Dielectrics. IEEE Transactions on Device and Materials Reliability, 2012, 12, 152-157.	2.0	2
48	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
49	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
50	OP08.04: Showing pictograms in electronic data capture software improves interrater agreement. Ultrasound in Obstetrics and Gynecology, 2011, 38, 78-79.	1.7	1
51	Assimilation of ozone measurements in the air quality model AURORA by using the Ensemble Kalman Filter. , 2011, , .		4
52	Fluctuations of haemoglobinaemia in chronic haemodialysis patients. Acta Clinica Belgica, 2011, 66, 123-8.	1.2	4
53	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
54	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

#	Article	IF	Citations
55	A convexityâ€based homotopy method for nonlinear optimization in model predictive control. Optimal Control Applications and Methods, 2010, 31, 393-414.	2.1	9
56	Flood control of rivers with nonlinear model predictive control and moving horizon estimation. , 2010, , .		13
57	Polynomial componentwise LS-SVM: Fast variable selection using low rank updates. , 2010, , .		5
58	Nuclear norm regularization for overparametrized Hammerstein systems. , 2010, , .		9
59	Linear parametric noise models for Least Squares Support Vector Machines. , 2010, , .		6
60	Reduction of the computational burden of POD models with polynomial nonlinearities. , 2010, , .		1
61	Acceleration of nonlinear POD models: A neural network approach. , 2009, , .		4
62	Positive Polynomial Constraints for POD-based Model Predictive Controllers. IEEE Transactions on Automatic Control, 2009, 54, 988-999.	5.7	8
63	A structure exploiting interior-point method for moving horizon estimation. , 2009, , .		8
64	A convex approximation for parameter estimation involving parameter-affine dynamic models. , 2009, , .		2
65	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
66	Identification and control of a pilot scale binary distillation column. , 2009, , .		2
67	Building decision trees for diagnosing intracavitary uterine pathology. Facts, Views & Vision in ObGyn, 2009, 1, 182-8.	1.1	1
68	How To Play Two-Player Restricted Quantum Games with 10 Cards. International Journal of Theoretical Physics, 2008, 47, 61-68.	1.2	1
69	A Macroscopic Device for Quantum Computation. International Journal of Theoretical Physics, 2008, 47, 200-211.	1.2	0
70	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
71	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
72	Free p-cresol is associated with cardiovascular disease in hemodialysis patients. Kidney International, 2008, 73, 1174-1180.	5.2	276

#	Article	IF	Citations
73	Algorithm for reducing the number of constraints of POD-based predictive controllers. , 2008, , .		0
74	Variable selection by rank-one updates for least squares support vector machines. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	3
75	A mutual information based distance for multivariate Gaussian processes. , 2007, , .		0
76	A new approach for the identification of hidden Markov models. , 2007, , .		7
77	Learning with Heterogenous Data Sets by Weighted Multiple Kernel Canonical Correlation Analysis. IEEE International Workshop on Machine Learning for Signal Processing, 2007, , .	0.0	5
78	THE NEED FOR CARE COâ€ORDINATION IN AN AGEING DIALYSIS POPULATION. Journal of Renal Care, 2007, 33, 39-40.	1.2	0
79	Information, covariance and square-root filtering in the presence of unknown inputs. , 2007, , .		3
80	Polytopic invariant sets for continuous-time systems. , 2007, , .		5
81	Do material transfer agreements affect the choice of research agendas? The case of biotechnology in Belgium. Scientometrics, 2007, 71, 239-269.	3.0	17
82	UveÃ¯tis in de nefrologische praktijk: twee casussen. Tijdschrift Voor Geneeskunde, 2007, 63, 680-685.	0.0	0
83	Severe Diarrhea in Renal Transplant Patients: Results of the DIDACT Study. American Journal of Transplantation, 2006, 6, 1466-1472.	4.7	109
84	Data-based Subsystem Identification for Dynamic Model Updating. , 2006, , .		5
85	Subsystem identification for nonlinear model updating. , 2006, , .		10
86	Robust synthesis of constrained linear state feedback using LMIs and polyhedral invariant sets. , 2006, , .		10
87	Matrix Factorization and Stochastic State Representations. , 2006, , .		6
88	PROSPECTIVE EXPLORATION OF BIOCHEMICAL TISSUE COMPOSITION VIA IMAGING MASS SPECTROMETRY GUIDED BY PRINCIPAL COMPONENT ANALYSIS. , 2006, , .		23
89	Advances in Cluster Analysis of Microarray Data. , 2005, , 153-173.		7
90	Kernel based partially linear models and nonlinear identification. IEEE Transactions on Automatic Control, 2005, 50, 1602-1606.	5.7	81

#	ARTICLE	IF	CITATIONS
91	Application of structured total least squares for system identification and model reduction. IEEE Transactions on Automatic Control, 2005, 50, 1490-1500.	5.7	63
92	Subspace identification of Hammerstein systems using least squares support vector machines. IEEE Transactions on Automatic Control, 2005, 50, 1509-1519.	5.7	155
93	Clustering time series, subspace identification and cepstral distances. Communications in Information and Systems, 2005, 5, 69-96.	0.5	20
94	Robust finite-horizon MPC using optimal worst-case closed-loop predictions. , 2004, , .		2
95	Electric potential estimation with line-of-sight measurements using basis function optimization. , 2004, , .		1
96	Linear MPC with time-varying terminal cost using sparse convex combinations and bisection search. , 2004, , .		2
97	The value of tuberculin skin testing in haemodialysis patients. Nephrology Dialysis Transplantation, 2004, 19, 433-438.	0.7	54
98	Non-concave fundamental diagrams and phase transitions in a stochastic traffic cellular automaton. European Physical Journal B, 2004, 42, 131-140.	1.5	18
99	Benchmarking Least Squares Support Vector Machine Classifiers. Machine Learning, 2004, 54, 5-32.	5.4	596
100	The PeopleMover educational project - design, simulation, and implementation of a real control system application. IEEE Control Systems, 2004, 24, 83-87.	0.8	4
101	A QR-type reduction for computing the SVD of a general matrix product/quotient. Numerische Mathematik, 2003, 95, 101-121.	1.9	13
102	Identification of positive real models in subspace identification by using regularization. IEEE Transactions on Automatic Control, 2003, 48, 1843-1847.	5.7	33
103	Long horizon model predictive control for nonlinear industrial processes. , 2003, , .		3
104	Optimizing completely positive maps using semidefinite programming. Physical Review A, 2002, 65, .	2.5	49
105	On the geometry of entangled states. Journal of Modern Optics, 2002, 49, 1277-1287.	1.3	42
106	Four qubits can be entangled in nine different ways. Physical Review A, 2002, 65, .	2.5	499
107	Functional bioinformatics of microarray data: from expression to regulation. Proceedings of the IEEE, 2002, 90, 1722-1743.	21.3	37
108	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

#	Article	IF	Citations
109	The structured total least-squares approach for non-linearly structured matrices. Numerical Linear Algebra With Applications, 2002, 9, 321-332.	1.6	13
110	Multiclass LS-SVMs: Moderated Outputs and Coding-Decoding Schemes. Neural Processing Letters, 2002, 15, 45-58.	3.2	34
111	Nachtelijke hemodialyse. Tijdschrift Voor Geneeskunde, 2002, 58, 1512-1517.	0.0	0
112	On frequency weighted balanced truncation: A constructive counterexample to Enns' conjecture. , 2001, , .		2
113	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
114	Trisodium citrate 30% vs heparin 5% as catheter lock in the interdialytic period in twin€•or double€lumen dialysis catheters for intermittent haemodialysis. Nephrology Dialysis Transplantation, 2001, 16, 1521-1522.	0.7	47
115	Misfit versus Latency. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 905-910.	0.4	3
116	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
117	On an Alternative Parameterization of the Solutions of the Partial Realization Problem. Acta Applicandae Mathematicae, 2000, 61, 317-331.	1.0	0
118	Model-free subspace-based LQG-design. , 1999, , .		25
119	Subspace identification of bilinear systems subject to white inputs. IEEE Transactions on Automatic Control, 1999, 44, 1157-1165.	5.7	115
120	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
121	More on local influence in pllincipal components analysis. Communications in Statistics - Theory and Methods, 1999, 28, 2487-2495.	1.0	4
122	SPC: Subspace Predictive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 4004-4009.	0.4	75
123	Information measure based stochastic system identification of ATM network traffic. , 1999, , .		0
124	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
125	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
126	Modelling the Belgian gas consumption using neural networks. Neural Processing Letters, 1996, 4, 157-166.	3.2	24

#	Article	IF	Citations
127	Optimal control of the penicillin G fed-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
128	Subclavian Vein Hemodialysis Catheters: Advantages and Disadvantages. Artificial Organs, 1994, 18, 293-297.	1.9	39
129	H 2 Model Reduction for SISO Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1993, 26, 895-898.	0.4	5
130	Nonlinear System Identification Using Multilayer Neural Networks: Some Ideas for Initial Weights, Number of Hidden Neurons and Error Criteria. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1993, 26, 345-348.	0.4	5
131	An Interactive System Identification Module for Xmath (ISID). , 1993, , .		0
132	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
133	Trade-offs in linear control system design: A practical example. Optimal Control Applications and Methods, 1992, 13, 121-144.	2.1	4
134	The quotient SVD and H_∞ norms. , 1992, , .		0
135	A continuous time power iteration method for computing a lower bound of μ. , 0, , .		1
136	Continuous-time algorithms for the Riemannian SVD. , 0, , .		1
137	Links between NL/sub q/ neural control theory and μ robust control theory. , 0, , .		0
138	Robust NL/sub q/ neural control theory. , 0, , .		0
139	Statistical division based modeling for multimedia network traffic. , 0, , .		0
140	Bayesian networks in ovarian cancer diagnosis: potentials and limitations. , 0, , .		16
141	Least squares support vector machine regression for discriminant analysis. , 0, , .		8
142	Annotated Bayesian networks: a tool to integrate textual and probabilistic medical knowledge. , 0, , .		6
143	Automatic relevance determination for least squares support vector machine regression. , 0, , .		15
144	Domain knowledge based information retrieval language: an application of annotated Bayesian networks in ovarian cancer domain. , 0, , .		3

#	Article	IF	Citations
145	Bayesian inference for LS-SVMs on large data sets using the Nystrom method. , 0, , .		4
146	Web-based data collection for uterine adnexal tumors: a case study. , 0, , .		1
147	Bankruptcy prediction with least squares support vector machine classifiers. , 0, , .		22
148	Primal space sparse kernel partial least squares regression for large scale problems. , 0, , .		12
149	Model Reduction of Systems with Symmetries. , 0, , .		6
150	Software for Approximate Linear System Identification. , 0, , .		3
151	The efficient computation of polyhedral invariant sets for linear systems with polytopic uncertainty. , 0, , .		89
152	Interpolation Based MPC for LPV Systems using Polyhedral Invariant Sets. , 0, , .		50
153	Gene Regulation Bioinformatics of Microarray Data. , 0, , 55-98.		0