Johan A K Suykens

List of Publications by Citations

367 papers	18,893 citations	56 h-index	131 g-index
398 ext. papers	22,374 ext. citations	4.2 avg, IF	7.04 L-index

#	Paper	IF	Citations
367	Least Squares Support Vector Machine Classifiers. *Neural Processing Letters*, **1999**, 9, 293-300	2.4	5747
366	Least Squares Support Vector Machines **2002**,		1174
365	Weighted least squares support vector machines: robustness and sparse approximation. *Neurocomputing*, **2002**, 48, 85-105	5.4	833
364	Benchmarking state-of-the-art classification algorithms for credit scoring. *Journal of the Operational Research Society*, **2003**, 54, 627-635	2	496
363	Benchmarking Least Squares Support Vector Machine Classifiers. *Machine Learning*, **2004**, 54, 5-32	4	481
362	Financial time series prediction using least squares support vector machines within the evidence framework. *IEEE Transactions on Neural Networks*, **2001**, 12, 809-21		308
361	. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **1993**, 40, 861-867		234
360	Coupled simulated annealing. *IEEE Transactions on Systems, Man, and Cybernetics*, **2010**, 40, 320-35		227
359	FAMILIES OF SCROLL GRID ATTRACTORS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2002**, 12, 23-41	2	218
358	A tutorial on support vector machine-based methods for classification problems in chemometrics. *Analytica Chimica Acta*, **2010**, 665, 129-45	6.6	211
357	Recurrent least squares support vector machines. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2000**, 47, 1109-1114		199
356	Bayesian framework for least-squares support vector machine classifiers, gaussian processes, and kernel Fisher discriminant analysis. *Neural Computation*, **2002**, 14, 1115-47	2.9	198
355	MASTER□SLAVE SYNCHRONIZATION OF LUR'E SYSTEMS WITH TIME-DELAY. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2001**, 11, 1707-1722	2	198
354	Systematic benchmarking of microarray data classification: assessing the role of non-linearity and dimensionality reduction. *Bioinformatics*, **2004**, 20, 3185-95	7.2	190
353	True random bit generation from a double-scroll attractor. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2004**, 51, 1395-1404		182
352	Artificial Neural Networks for Modelling and Control of Non-Linear Systems **1996**,		175
351	Multiway spectral clustering with out-of-sample extensions through weighted kernel PCA. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2010**, 32, 335-47	13.3	146

350	Robust nonlinear H/sub /spl infin// synchronization of chaotic Lur'e systems. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **1997**, 44, 891-904		143
349	Robust synthesis for master-slave synchronization of Lur'e systems. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **1999**, 46, 841-850		141
348	Concurrent monitoring of operating condition deviations and process dynamics anomalies with slow feature analysis. *AICHE Journal*, **2015**, 61, 3666-3682	3.6	138
347	Support Vector Machine Classifier With Pinball Loss. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2014**, 36, 984-97	13.3	138
346	Identification of MIMO Hammerstein models using least squares support vector machines. *Automatica*, **2005**, 41, 1263-1272	5.7	133
345	Optimized data fusion for kernel k-means clustering. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2012**, 34, 1031-9	13.3	130
344	Brain tumor classification based on long echo proton MRS signals. *Artificial Intelligence in Medicine*, **2004**, 31, 73-89	7.4	127
343	Support Vector Machines: A Nonlinear Modelling and Control Perspective. *European Journal of Control*, **2001**, 7, 311-327	2.5	125
342	Learning with tensors: a framework based on convex optimization and spectral regularization. *Machine Learning*, **2014**, 94, 303-351	4	123
341	Subspace identification of Hammerstein systems using least squares support vector machines. *IEEE Transactions on Automatic Control*, **2005**, 50, 1509-1519	5.9	121
340	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		117
339	. *IEEE Signal Processing Letters*, **2011**, 18, 403-406	3.2	111
338	Experimental confirmation of 3- and 5-scroll attractors from a generalized Chua's circuit. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **2000**, 47, 425-429		107
337	Application of a Smoothing Technique to Decomposition in Convex Optimization. *IEEE Transactions on Automatic Control*, **2008**, 53, 2674-2679	5.9	106
336	Multiproject-multicenter evaluation of automatic brain tumor classification by magnetic resonance spectroscopy. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2009**, 22, 5-18	2.8	103
335	Deep-learning neural-network architectures and methods: Using component-based models in building-design energy prediction. *Advanced Engineering Informatics*, **2018**, 38, 81-90	7.4	102
334	Bayesian kernel based classification for financial distress detection. *European Journal of Operational Research*, **2006**, 172, 979-1003	5.6	94
333	Electric Load Forecasting. *IEEE Control Systems*, **2007**, 27, 43-57	2.9	91

332	Approximate confidence and prediction intervals for least squares support vector regression. *IEEE Transactions on Neural Networks*, **2011**, 22, 110-20		86
331	A support vector machine formulation to PCA analysis and its kernel version. *IEEE Transactions on Neural Networks*, **2003**, 14, 447-50		86
330	Transductive LSTM for time-series prediction: An application to weather forecasting. *Neural Networks*, **2020**, 125, 1-9	9.1	86
329	Cluster synchronization in oscillatory networks. *Chaos*, **2008**, 18, 037106	3.3	81
328	Optimized fixed-size kernel models for large data sets. *Computational Statistics and Data Analysis*, **2010**, 54, 1484-1504	1.6	78
327	Support vector methods for survival analysis: a comparison between ranking and regression approaches. *Artificial Intelligence in Medicine*, **2011**, 53, 107-18	7.4	74
326	Application of kernel principal component analysis for single-lead-ECG-derived respiration. *IEEE Transactions on Biomedical Engineering*, **2012**, 59, 1169-76	5	73
325	n-scroll chaos generators: a simple circuit model. *Electronics Letters*, **2001**, 37, 147	1.1	71
324	L2-norm multiple kernel learning and its application to biomedical data fusion. *BMC Bioinformatics*, **2010**, 11, 309	3.6	68
323	A combined MRI and MRSI based multiclass system for brain tumour recognition using LS-SVMs with class probabilities and feature selection. *Artificial Intelligence in Medicine*, **2007**, 40, 87-102	7.4	67
322	Introduction to Focus Issue: synchronization in complex networks. *Chaos*, **2008**, 18, 037101	3.3	63
321	Fixed-size Least Squares Support Vector Machines: A Large Scale Application in Electrical Load Forecasting. *Computational Management Science*, **2006**, 3, 113-129	1	62
320	Kernel based partially linear models and nonlinear identification. *IEEE Transactions on Automatic Control*, **2005**, 50, 1602-1606	5.9	62
319	Identification of stable models in subspace identification by using regularization. *IEEE Transactions on Automatic Control*, **2001**, 46, 1416-1420	5.9	62
318	Chaos control using least-squares support vector machines. *International Journal of Circuit Theory and Applications*, **1999**, 27, 605-615	2	61
317	A kernel-based framework to tensorial data analysis. *Neural Networks*, **2011**, 24, 861-74	9.1	60
316	Training multilayer perceptron classifiers based on a modified support vector method. *IEEE Transactions on Neural Networks*, **1999**, 10, 907-11		59
315	Global optimization by coupled local minimizers and its application to FE model updating. *Computers and Structures*, **2003**, 81, 2337-2351	4.5	58

314	Reducing the number of support vectors of SVM classifiers using the smoothed separable case approximation. *IEEE Transactions on Neural Networks and Learning Systems*, **2012**, 23, 682-8	10.3	57
313	LS-SVM based spectral clustering and regression for predicting maintenance of industrial machines. *Engineering Applications of Artificial Intelligence*, **2015**, 37, 268-278	7.2	56
312	A process model to develop an internal rating system: Sovereign credit ratings. *Decision Support Systems*, **2006**, 42, 1131-1151	5.6	56
311	Impulsive Synchronization of Chaotic Lur'e Systems by Measurement Feedback. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **1998**, 08, 1371-1381	2	56
310	Very sparse LSSVM reductions for large-scale data. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 1086-97	10.3	54
309	A kernel-based integration of genome-wide data for clinical decision support. *Genome Medicine*, **2009**, 1, 39	14.4	54
308	n-Double Scroll Hypercubes in 1-D CNNs. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **1997**, 07, 1873-1885	2	54
307	Preoperative prediction of malignancy of ovarian tumors using least squares support vector machines. *Artificial Intelligence in Medicine*, **2003**, 28, 281-306	7.4	54
306	Nonlinear system identification using neural state space models, applicable to robust control design. *International Journal of Control*, **1995**, 62, 129-152	1.5	53
305	The efficient computation of polyhedral invariant sets for linear systems with polytopic uncertainty		52
304	Master-Slave Synchronization Using Dynamic Output Feedback. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **1997**, 07, 671-679	2	50
303	Incorporating structural information from the multichannel EEG improves patient-specific seizure detection. *Clinical Neurophysiology*, **2012**, 123, 2352-61	4.3	48
302	Absolute Stability Theory and Master-Slave Synchronization. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **1997**, 07, 2891-2896	2	48
301	Subset based least squares subspace regression in RKHS. *Neurocomputing*, **2005**, 63, 293-323	5.4	48
300	Enhancing dynamic soft sensors based on DPLS: A temporal smoothness regularization approach. *Journal of Process Control*, **2015**, 28, 17-26	3.9	47
299	Nonlinear H∞ Synchronization of Chaotic Lur'e Systems. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **1997**, 07, 1323-1335	2	47
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297	Load forecasting using a multivariate meta-learning system. *Expert Systems With Applications*, **2013**, 40, 4427-4437	7.8	46

296	INTELLIGENCE AND COOPERATIVE SEARCH BY COUPLED LOCAL MINIMIZERS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2001**, 11, 2133-2144	2	46
295	Lur'e systems with multilayer perceptron and recurrent neural networks: absolute stability and dissipativity. *IEEE Transactions on Automatic Control*, **1999**, 44, 770-774	5.9	46
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291	Approximate solutions to ordinary differential equations using least squares support vector machines. *IEEE Transactions on Neural Networks and Learning Systems*, **2012**, 23, 1356-67	10.3	42
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289	Least-Squares Support Vector Machines for the identification of Wiener□Hammerstein systems. *Control Engineering Practice*, **2012**, 20, 1165-1174	3.9	41
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285	Interior-Point Lagrangian Decomposition Method for Separable Convex Optimization. *Journal of Optimization Theory and Applications*, **2009**, 143, 567-588	1.6	40
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283	Nonlinear H/sub /spl infin// synchronization of Lur'e systems: dynamic output feedback case. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **1997**, 44, 1089-1092		39
282	Low rank updated LS-SVM classifiers for fast variable selection. *Neural Networks*, **2008**, 21, 437-49	9.1	39
281	Multi-View Least Squares Support Vector Machines Classification. *Neurocomputing*, **2018**, 282, 78-88	5.4	38
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279	Multi-agent reinforcement learning for modeling and control of thermostatically controlled loads. *Applied Energy*, **2019**, 238, 1022-1035	10.7	37

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276	Kernel component analysis using an epsilon-insensitive robust loss function. *IEEE Transactions on Neural Networks*, **2008**, 19, 1583-98		34
275	Interpolation based MPC for LPV systems using polyhedral invariant sets		34
274	Multiclass semisupervised learning based upon kernel spectral clustering. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 720-33	10.3	33
273	On the relevance of automatically selected single-voxel MRS and multimodal MRI and MRSI features for brain tumour differentiation. *Computers in Biology and Medicine*, **2011**, 41, 87-97	7	33
272	Learning solutions to partial differential equations using LS-SVM. *Neurocomputing*, **2015**, 159, 105-116	5.4	32
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268	Multiclass LS-SVMs: Moderated Outputs and Coding-Decoding Schemes. *Neural Processing Letters*, **2002**, 15, 45-58	2.4	31
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266	Incremental kernel spectral clustering for online learning of non-stationary data. *Neurocomputing*, **2014**, 139, 246-260	5.4	30
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263	Sequential minimal optimization for SVM with pinball loss. *Neurocomputing*, **2015**, 149, 1596-1603	5.4	27
262	Two-level □1 minimization for compressed sensing. *Signal Processing*, **2015**, 108, 459-475	4.4	26
261	Primal and dual model representations in kernel-based learning. *Statistics Surveys*, **2010**, 4,	1.7	26

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259	A mathematical model for interpretable clinical decision support with applications in gynecology. *PLoS ONE*, **2012**, 7, e34312	3.7	25
258	Robust triple mode MPC. *International Journal of Control*, **2008**, 81, 679-689	1.5	24
257	Data visualization and dimensionality reduction using kernel maps with a reference point. *IEEE Transactions on Neural Networks*, **2008**, 19, 1501-17		24
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253	Kernel spectral clustering with memory effect. *Physica A: Statistical Mechanics and Its Applications*, **2013**, 392, 2588-2606	3.3	23
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250	Kernelized Elastic Net Regularization: Generalization Bounds, and Sparse Recovery. *Neural Computation*, **2016**, 28, 525-62	2.9	22
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244	Static and dynamic stabilizing neural controllers, applicable to transition between equilibrium points. *Neural Networks*, **1994**, 7, 819-831	9.1	22
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242	Confidence bands for least squares support vector machine classifiers: A regression approach. *Pattern Recognition*, **2012**, 45, 2280-2287	7.7	21
241	Indefinite kernels in least squares support vector machines and principal component analysis. *Applied and Computational Harmonic Analysis*, **2017**, 43, 162-172	3.1	21
240	Noise Level Estimation for Model Selection in Kernel PCA Denoising. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 2650-63	10.3	21
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227	Building sparse representations and structure determination on LS-SVM substrates. *Neurocomputing*, **2005**, 64, 137-159	5.4	18
226	Modelling the strip thickness in hot steel rolling mills using least-squares support vector machines. *Canadian Journal of Chemical Engineering*, **2018**, 96, 171-178	2.3	18
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222	Genetic Weight Optimization of a Feedforward Neural Network Controller **1993**, 658-663		17
221	Explaining Support Vector Machines: A Color Based Nomogram. *PLoS ONE*, **2016**, 11, e0164568	3.7	17
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215	Estimating the unknown time delay in chemical processes. *Engineering Applications of Artificial Intelligence*, **2016**, 55, 219-230	7.2	15
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185	Least squares support vector machines and primal space estimation		11
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