

# Haralambos Sarimveis

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105  
papers

3,683  
citations

38  
h-index

57  
g-index

107  
ext. papers

4,264  
ext. citations

5  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
105	Image Analysis and Deep Learning Web Services for Nano informatics <b>2021</b> , 547-564		
104	Identifying diverse metal oxide nanomaterials with lethal effects on embryonic zebrafish using machine learning.. <i>Beilstein Journal of Nanotechnology</i> , <b>2021</b> , 12, 1297-1325	3	1
103	Multi-Ship Control and Collision Avoidance Using MPC and RBF-Based Trajectory Predictions. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
102	Machine learning predictions of concentration-specific aggregate hazard scores of inorganic nanomaterials in embryonic zebrafish. <i>Nanotoxicology</i> , <b>2021</b> , 15, 446-476	5.3	4
101	Automated Grouping of Nanomaterials and Read-Across Prediction of Their Adverse Effects Based on Mathematical Optimization. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> , 61, 2766-2779	6.1	1
100	Apellis: An online tool for read-across model development. <i>Computational Toxicology</i> , <b>2021</b> , 17, 100146	3.1	3
99	NanoSolveIT integration of tools for assessment of human and environmental exposure to nanomaterials <b>2021</b> , 81-120		0
98	Machine learning methods for multi-walled carbon nanotubes (MWCNT) genotoxicity prediction. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 3167-3176	5.1	5
97	A robust model predictive control framework for the regulation of anesthesia process with Propofol. <i>Optimal Control Applications and Methods</i> , <b>2021</b> , 42, 965-986	1.7	3
96	Can an InChI for Nano Address the Need for a Simplified Representation of Complex Nanomaterials across Experimental and Nanoinformatics Studies?. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	10
95	Transcriptomics in Toxicogenomics, Part II: Preprocessing and Differential Expression Analysis for High Quality Data. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	16
94	Development of Deep Learning Models for Predicting the Effects of Exposure to Engineered Nanomaterials on Daphnia magna. <i>Small</i> , <b>2020</b> , 16, e2001080	11	14
93	NanoSolveIT Project: Driving nanoinformatics research to develop innovative and integrated tools for nanosafety assessment. <i>Computational and Structural Biotechnology Journal</i> , <b>2020</b> , 18, 583-602	6.8	41
92	QSAR modeling of the toxicity classification of superparamagnetic iron oxide nanoparticles (SPIONs) in stem-cell monitoring applications: an integrated study from data curation to model development.. <i>RSC Advances</i> , <b>2020</b> , 10, 5385-5391	3.7	12
91	An enhanced decentralized artificial immune-based strategy formulation algorithm for swarms of autonomous vehicles. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 89, 106135	7.5	6
90	Transcriptomics in Toxicogenomics, Part III: Data Modelling for Risk Assessment. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	19
89	Transcriptomics in Toxicogenomics, Part I: Experimental Design, Technologies, Publicly Available Data, and Regulatory Aspects. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	18

88	MCDCalc: Markov Chain Molecular Descriptors Calculator for Medicinal Chemistry. <i>Current Topics in Medicinal Chemistry</i> , <b>2020</b> , 20, 305-317	3	0
87	Risk Management Framework for Nano-Biomaterials Used in Medical Devices and Advanced Therapy Medicinal Products. <i>Materials</i> , <b>2020</b> , 13,	3.5	11
86	Predictive control algorithms for congestion management in electric power distribution grids. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 77, 635-651	4.5	7
85	Read-across predictions of nanoparticle hazard endpoints: a mathematical optimization approach. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 3485-3498	5.1	7
84	A safe-by-design tool for functionalised nanomaterials through the Enalos Nanoinformatics Cloud platform. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 706-718	5.1	24
83	Population pharmacokinetic reanalysis of a Diazepam PBPK model: a comparison of Stan and GNU MCSim. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , <b>2019</b> , 46, 173-192	2.7	6
82	toxFlow: A Web-Based Application for Read-Across Toxicity Prediction Using Omics and Physicochemical Data. <i>Journal of Chemical Information and Modeling</i> , <b>2018</b> , 58, 543-549	6.1	15
81	A Data Fusion Pipeline for Generating and Enriching Adverse Outcome Pathway Descriptions. <i>Toxicological Sciences</i> , <b>2018</b> , 162, 264-275	4.4	43
80	Model predictive control for systems with fast dynamics using inverse neural models. <i>ISA Transactions</i> , <b>2018</b> , 72, 161-177	5.5	23
79	Perspectives from the NanoSafety Modelling Cluster on the validation criteria for (Q)SAR models used in nanotechnology. <i>Food and Chemical Toxicology</i> , <b>2018</b> , 112, 478-494	4.7	21
78	Fractional calculus in pharmacokinetics. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , <b>2018</b> , 45, 107-125	2.7	41
77	An Inverse Neural Controller Based on the Applicability Domain of RBF Network Models. <i>Sensors</i> , <b>2018</b> , 18,	3.8	4
76	Model predictive control for offset-free reference tracking of fractional order systems. <i>Control Engineering Practice</i> , <b>2018</b> , 71, 26-33	3.9	13
75	Stabilising model predictive control for discrete-time fractional-order systems. <i>Automatica</i> , <b>2017</b> , 75, 24-31	5.7	23
74	MouseTox: An online toxicity assessment tool for small molecules through Enalos Cloud platform. <i>Food and Chemical Toxicology</i> , <b>2017</b> , 110, 83-93	4.7	15
73	Enriching Nanomaterials Omics Data: An Integration Technique to Generate Biological Descriptors. <i>Small Methods</i> , <b>2017</b> , 1, 1700139	12.8	9
72	Jaqpot Quattro: A Novel Computational Web Platform for Modeling and Analysis in Nanoinformatics. <i>Journal of Chemical Information and Modeling</i> , <b>2017</b> , 57, 2161-2172	6.1	12
71	Cooperative learning for radial basis function networks using particle swarm optimization. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 49, 485-497	7.5	39

70	Decision Trees for Continuous Data and Conditional Mutual Information as a Criterion for Splitting Instances. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2016</b> , 19, 423-8	1.3	4
69	Model Predictive Control for Linear Impulsive Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 2277-2282	5.9	26
68	RRegrs: an R package for computer-aided model selection with multiple regression models. <i>Journal of Cheminformatics</i> , <b>2015</b> , 7, 46	8.6	30
67	The eNanoMapper database for nanomaterial safety information. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 1609-34	3	64
66	Robust model predictive control for optimal continuous drug administration. <i>Computer Methods and Programs in Biomedicine</i> , <b>2014</b> , 116, 193-204	6.9	5
65	Stochastic model predictive control for constrained discrete-time Markovian switching systems. <i>Automatica</i> , <b>2014</b> , 50, 2504-2514	5.7	51
64	Optimization of power production through coordinated use of hydroelectric and conventional power units. <i>Applied Mathematical Modelling</i> , <b>2014</b> , 38, 2051-2062	4.5	4
63	Radial basis function network training using a nonsymmetric partition of the input space and particle swarm optimization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2013</b> , 24, 219-30	10.3	80
62	A mathematical programming approach for optimal design of distributed energy systems at the neighbourhood level. <i>Energy</i> , <b>2012</b> , 44, 96-104	7.9	215
61	Model Predictive Control for Linear Impulsive Systems <b>2012</b> ,		2
60	Optimization of window-openings design for thermal comfort in naturally ventilated buildings. <i>Applied Mathematical Modelling</i> , <b>2012</b> , 36, 193-211	4.5	78
59	Convex parametric piecewise quadratic optimization: Theory and algorithms. <i>Automatica</i> , <b>2011</b> , 47, 1770-1777	5.1	21
58	A global piecewise smooth Newton method for fast large-scale model predictive control. <i>Automatica</i> , <b>2011</b> , 47, 2016-2022	5.7	36
57	Ligand-based virtual screening procedure for the prediction and the identification of novel Amyloid aggregation inhibitors using Kohonen maps and Counterpropagation Artificial Neural Networks. <i>European Journal of Medicinal Chemistry</i> , <b>2011</b> , 46, 497-508	6.8	81
56	In silico exploration for identifying structure-activity relationship of MEK inhibition and oral bioavailability for isothiazole derivatives. <i>Chemical Biology and Drug Design</i> , <b>2010</b> , 76, 397-406	2.9	44
55	Variable selection in nonlinear modeling based on RBF networks and evolutionary computation. <i>International Journal of Neural Systems</i> , <b>2010</b> , 20, 365-79	6.2	29
54	A combined LS-SVM & MLR QSAR workflow for predicting the inhibition of CXCR3 receptor by quinazolinone analogs. <i>Molecular Diversity</i> , <b>2010</b> , 14, 225-35	3.1	44
53	A new algorithm for solving convex parametric quadratic programs based on graphical derivatives of solution mappings. <i>Automatica</i> , <b>2010</b> , 46, 1405-1418	5.7	40

52	A new neural network model for evaluating the performance of various hourly slope irradiation models: Implementation for the region of Athens. <i>Renewable Energy</i> , <b>2010</b> , 35, 1357-1362	8.1	24
51	Determination of the optimal tilt angle and orientation for solar photovoltaic arrays. <i>Renewable Energy</i> , <b>2010</b> , 35, 2468-2475	8.1	121
50	Robust nonlinear H <sub>∞</sub> control of hyperbolic distributed parameter systems. <i>Control Engineering Practice</i> , <b>2009</b> , 17, 723-732	3.9	17
49	A novel QSAR model for predicting the inhibition of CXCR3 receptor by 4-N-aryl-[1,4] diazepane ureas. <i>European Journal of Medicinal Chemistry</i> , <b>2009</b> , 44, 877-84	6.8	47
48	Predictive QSAR workflow for the in silico identification and screening of novel HDAC inhibitors. <i>Molecular Diversity</i> , <b>2009</b> , 13, 301-11	3.1	51
47	Operational optimization and real-time control of fuel-cell systems. <i>Journal of Power Sources</i> , <b>2009</b> , 193, 258-268	8.9	48
46	Radial basis function neural networks classification for the recognition of idiopathic pulmonary fibrosis in microscopic images. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2008</b> , 12, 42-54		42
45	A combined model predictive control and time series forecasting framework for production-inventory systems. <i>International Journal of Production Research</i> , <b>2008</b> , 46, 6841-6853	7.8	25
44	Optimal production scheduling for the dairy industry. <i>Annals of Operations Research</i> , <b>2008</b> , 159, 315-331	3.2	31
43	Development and Evaluation of a QSPR Model for the Prediction of Diamagnetic Susceptibility. <i>QSAR and Combinatorial Science</i> , <b>2008</b> , 27, 432-436		35
42	Model-based optimal control of a hybrid power generation system consisting of photovoltaic arrays and fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 181, 327-338	8.9	76
41	Development of a novel computational tool for optimizing the operation of fuel cells systems: Application for phosphoric acid fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 185, 345-355	8.9	20
40	Prediction of daily global solar irradiance on horizontal surfaces based on neural-network techniques. <i>Renewable Energy</i> , <b>2008</b> , 33, 1796-1803	8.1	44
39	Nonlinear model predictive control for distributed parameter systems using data driven artificial neural network models. <i>Computers and Chemical Engineering</i> , <b>2008</b> , 32, 1225-1237	4	71
38	Dynamic modeling and control of supply chain systems: A review. <i>Computers and Operations Research</i> , <b>2008</b> , 35, 3530-3561	4.6	270
37	Design of a novel adaptive inventory control system based on the online identification of lead time. <i>International Journal of Production Economics</i> , <b>2008</b> , 114, 781-792	9.3	17
36	An adaptive model predictive control configuration for production inventory systems. <i>International Journal of Production Economics</i> , <b>2008</b> , 114, 165-178	9.3	25
35	An explicit optimal control approach for mean-risk dynamic portfolio allocation <b>2007</b> ,		2

34	Identification of a series of novel derivatives as potent HCV inhibitors by a ligand-based virtual screening optimized procedure. <i>Bioorganic and Medicinal Chemistry</i> , <b>2007</b> , 15, 7237-47	3.4	37
33	A threshold accepting heuristic with intense local search for the solution of special instances of the traveling salesman problem. <i>European Journal of Operational Research</i> , <b>2007</b> , 177, 1911-1929	5.6	18
32	Optimal scheduling in a yogurt production line based on mixed integer linear programming. <i>Journal of Food Engineering</i> , <b>2007</b> , 80, 445-453	6	45
31	Model predictive temperature control in long ducts by means of a neural network approximation tool. <i>Applied Thermal Engineering</i> , <b>2007</b> , 27, 2363-2369	5.8	19
30	A novel QSPR model for predicting $T_c$ (lower critical solution temperature) in polymer solutions using molecular descriptors. <i>Journal of Molecular Modeling</i> , <b>2007</b> , 13, 55-64	2	25
29	The performance of pixel window algorithms in the classification of habitats using VHSR imagery. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2006</b> , 60, 225-238	11.8	15
28	Multiobjective constrained MPC with simultaneous closed-loop identification. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2006</b> , 20, 145-173	2.8	15
27	A Novel QSAR Model for Evaluating and Predicting the Inhibition Activity of Dipeptidyl Aspartyl Fluoromethylketones. <i>QSAR and Combinatorial Science</i> , <b>2006</b> , 25, 928-935		27
26	A novel QSAR model for predicting induction of apoptosis by 4-aryl-4H-chromenes. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 6686-94	3.4	78
25	QSAR study on para-substituted aromatic sulfonamides as carbonic anhydrase II inhibitors using topological information indices. <i>Bioorganic and Medicinal Chemistry</i> , <b>2006</b> , 14, 1108-14	3.4	58
24	Prediction of intrinsic viscosity in polymer-solvent combinations using a QSPR model. <i>Polymer</i> , <b>2006</b> , 47, 3240-3248	3.9	61
23	Time series sales forecasting for short shelf-life food products based on artificial neural networks and evolutionary computing. <i>Journal of Food Engineering</i> , <b>2006</b> , 75, 196-204	6	106
22	A novel RBF neural network training methodology to predict toxicity to <i>Vibrio fischeri</i> . <i>Molecular Diversity</i> , <b>2006</b> , 10, 213-21	3.1	27
21	A novel simple QSAR model for the prediction of anti-HIV activity using multiple linear regression analysis. <i>Molecular Diversity</i> , <b>2006</b> , 10, 405-14	3.1	49
20	Prediction of toxicity using a novel RBF neural network training methodology. <i>Journal of Molecular Modeling</i> , <b>2006</b> , 12, 297-305	2	33
19	Prediction of high weight polymers glass transition temperature using RBF neural networks. <i>Computational and Theoretical Chemistry</i> , <b>2005</b> , 716, 193-198		67
18	A hierarchical fuzzy-clustering approach to fuzzy modeling. <i>Fuzzy Sets and Systems</i> , <b>2005</b> , 150, 245-266	3.7	109
17	A two-stage evolutionary algorithm for variable selection in the development of RBF neural network models. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2005</b> , 75, 149-162	3.8	58

16	A line up evolutionary algorithm for solving nonlinear constrained optimization problems. <i>Computers and Operations Research</i> , <b>2005</b> , 32, 1499-1514	4.6	35
15	Nonlinear adaptive model predictive control based on self-correcting neural network models. <i>AIChE Journal</i> , <b>2005</b> , 51, 2495-2506	3.6	39
14	An MILP Model for Optimal Scheduling of the Lubricant Production Plant. <i>Chemical Engineering Communications</i> , <b>2005</b> , 192, 1067-1084	2.2	3
13	Radial basis function neural networks classification using very high spatial resolution satellite imagery: an application to the habitat area of Lake Kerkini (Greece). <i>International Journal of Remote Sensing</i> , <b>2005</b> , 26, 1861-1880	3.1	5
12	A multidisciplinary decision support system for forest fire crisis management. <i>Environmental Management</i> , <b>2004</b> , 33, 212-25	3.1	37
11	A new algorithm for developing dynamic radial basis function neural network models based on genetic algorithms. <i>Computers and Chemical Engineering</i> , <b>2004</b> , 28, 209-217	4	63
10	A GIS based operational system for wildland fire crisis management I. Mathematical modelling and simulation. <i>Applied Mathematical Modelling</i> , <b>2004</b> , 28, 389-410	4.5	45
9	MODELING AND CONTROL OF CONTINUOUS DIGESTERS USING THE PLS METHODOLOGY. <i>Chemical Engineering Communications</i> , <b>2004</b> , 191, 1271-1284	2.2	1
8	A fast training algorithm for RBF networks based on subtractive clustering. <i>Neurocomputing</i> , <b>2003</b> , 51, 501-505	5.4	51
7	Fuzzy model predictive control of non-linear processes using genetic algorithms. <i>Fuzzy Sets and Systems</i> , <b>2003</b> , 139, 59-80	3.7	74
6	A Neural Network Approach for the Correlation of Exhaust Emissions from a Diesel Engine with Diesel Fuel Properties. <i>Energy &amp; Fuels</i> , <b>2003</b> , 17, 1259-1265	4.1	54
5	A fuzzy logic approach for the classification of product qualitative characteristics. <i>Computers and Chemical Engineering</i> , <b>2002</b> , 26, 429-438	4	9
4	A neural network approach to the prediction of diesel fuel lubricity. <i>Fuel</i> , <b>2002</b> , 81, 1243-1250	7.1	34
3	A Method for Fuzzy System Identification Based on Clustering Analysis. <i>Systems Analysis Modelling Simulation</i> , <b>2002</b> , 42, 797-823		2
2	A Fast and Efficient Algorithm for Training Radial Basis Function Neural Networks Based on a Fuzzy Partition of the Input Space. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 751-759	3.9	90
1	Design of robust nonsquare constrained model-predictive control. <i>AIChE Journal</i> , <b>1996</b> , 42, 2582-2593	3.6	7