Martin Crane

List of Publications by Year
in descending order

62 papers	2,569 citations	430754 18 h-index	223716 46 g-index
63 all docs	63 docs citations	63 times ranked	4487 citing authors

#	Article	IF	Citations
1	Learning behaviours data in programming education: Community analysis and outcome prediction with cleaned data. Future Generation Computer Systems, 2022, 127, 42-55.	4.9	30
2	Side-Length-Independent Motif (SLIM): Motif Discovery and Volatility Analysis in Time Series—SAX, MDL and the Matrix Profile. Forecasting, 2022, 4, 219-237.	1.6	1
3	GDPR Compliance Tools: Best Practice from RegTech. Lecture Notes in Business Information Processing, 2021, , 905-929.	0.8	7
4	Financial Time Series: Market Analysis Techniques Based on Matrix Profiles †. Engineering Proceedings, 2021, 5, 45.	0.4	1
5	Cross-correlation dynamics and community structures of cryptocurrencies. Journal of Computational Science, 2020, 44, 101130.	1.5	20
6	Release modelling of nanoencapsulated food ingredients by probabilistic models: Cellular Automata and Monte Carlo Methods. , 2020, , 273-309.		0
7	Assessing the impact of HIV treatment interruptions using stochastic cellular Automata. Journal of Theoretical Biology, 2020, 502, 110376.	0.8	6
8	Design Challenges for GDPR RegTech. , 2020, , .		16
9	Financial Time Series: Motif Discovery and Analysis Using VALMOD. Lecture Notes in Computer Science, 2019, , 771-778.	1.0	6
10	Bitcoin Currency Fluctuation. , 2018, , .		10
11	HIV models for treatment interruption: Adaptation and comparison. Physica A: Statistical Mechanics and Its Applications, 2017, 483, 44-56.	1.2	9
12	Data Mining in Agri Warehouses Using MODWT Wavelet Analysis. Communications in Computer and Information Science, 2017, , 241-253.	0.4	0
13	NTCIR-12 Lifelog Data Analytics. , 2016, , .		2
14	Finding Motifs in Large Personal Lifelogs. , 2016, , .		6
15	Data Integration for Microarrays: Enhanced Inference for Gene Regulatory Networks. Microarrays (Basel, Switzerland), 2015, 4, 255-269.	1.4	3
16	Comparative analysis of asynchronous cellular automata in stochastic pharmaceutical modelling. Journal of Computational Science, 2014, 5, 834-840.	1.5	3
17	Random Matrix Ensembles of Time Correlation Matrices to Analyze Visual Lifelogs. Lecture Notes in Computer Science, 2014, , 400-411.	1.0	1
18	Probabilistic Pharmaceutical Modelling: A Comparison Between Synchronous and Asynchronous Cellular Automata. Lecture Notes in Computer Science, 2014, , 699-710.	1.0	1

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19	EGIA â€" Evolutionary Optimisation of Gene Regulatory Networks, an Integrative Approach. Studies in Computational Intelligence, 2014, , 217-229.	0.7	0
20	ON THE VOLUME OF FLUID METHOD FOR MULTIPHASE FLUID FLOW SIMULATION. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 04, 1350002.	0.9	3
21	Application of statistical physics for the identification of important events in visual lifelogs. , 2013, , .		4
22	AUTOMATICALLY DETECTING "SIGNIFICANT EVENTS" ON SenseCam. International Journal of Wavelets, Multiresolution and Information Processing, 2013, 11, 1350050.	0.9	5
23	Visual Experience for Recognising Human Activities. Communications in Computer and Information Science, 2013, , 173-185.	0.4	1
24	High-Performance Computing for Data Analytics. , 2012, , .		0
25	Parallelisation strategies for large scale cellular automata frameworks in pharmaceutical modelling. , 2012, , .		6
26	Wisdom of crowds for robust gene network inference. Nature Methods, 2012, 9, 796-804.	9.0	1,481
27	RNA-Seq vs Dual- and Single-Channel Microarray Data: Sensitivity Analysis for Differential Expression and Clustering. PLoS ONE, 2012, 7, e50986.	1.1	71
28	Integrating heterogeneous gene expression data for gene regulatory network modelling. Theory in Biosciences, 2012, 131, 95-102.	0.6	7
29	Stages of Gene Regulatory Network Inference: the Evolutionary Algorithm Role. , 2011, , .		5
30	A Study of Correlation and Entropy for Multiple Time Series. , 2011, , 245-254.		0
31	Comparison of evolutionary algorithms in gene regulatory network model inference. BMC Bioinformatics, 2010, 11, 59.	1.2	63
32	Model refinement through high-performance computing: an agent-based HIV example. Immunome Research, 2010, 6, S3.	0.1	5
33	Cross-Platform Microarray Data Normalisation for Regulatory Network Inference. PLoS ONE, 2010, 5, e13822.	1.1	22
34	EDGE-WEIGHTING OF GENE EXPRESSION GRAPHS. International Journal of Modeling, Simulation, and Scientific Computing, 2010, 13, 217-238.	0.9	4
35	Comparison of Microarray Preprocessing Methods. Advances in Experimental Medicine and Biology, 2010, 680, 139-147.	0.8	18
36	In Silico Biology. Advances in Bioinformatics and Biomedical Engineering Book Series, 2010, , 55-74.	0.2	3

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37	Cross-correlation dynamics in financial time series. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 705-714.	1.2	66
38	Seizure characterisation using frequency-dependent multivariate dynamics. Computers in Biology and Medicine, 2009, 39, 760-767.	3.9	9
39	Pattern Discovery in Gene Expression Data. , 2009, , 45-64.		0
40	Time and scale Hurst exponent analysis for financial markets. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3910-3915.	1.2	74
41	3D Multi-agent models for protein release from PLGA spherical particles with complex inner morphologies. Theory in Biosciences, 2008, 127, 95-105.	0.6	6
42	Random matrix theory filters in portfolio optimisation: A stability and risk assessment. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 4248-4260.	1.2	30
43	Wavelet multiscale analysis for Hedge Funds: Scaling and strategies. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 5197-5204.	1.2	30
44	Quantitative multi-agent models for simulating protein release from PLGA bioerodible nano- and microspheres. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 361-368.	1.4	18
45	Response to the comments by Bernaschi et al. on â€˜Optimisation and parallelisation strategies for Monte Carlo simulation of HIV infectionâ€™. Computers in Biology and Medicine, 2008, 38, 282.	3.9	2
46	Techniques for clustering gene expression data. Computers in Biology and Medicine, 2008, 38, 283-293.	3.9	221
47	The effect of a meteorological tower on its top-mounted anemometer. Applied Energy, 2007, 84, 413-424.	5.1	10
48	Optimisation and parallelisation strategies for Monte Carlo simulation of HIV infection. Computers in Biology and Medicine, 2007, 37, 691-699.	3.9	8
49	Random matrix theory and fund of funds portfolio optimisation. Physica A: Statistical Mechanics and Its Applications, 2007, 382, 565-576.	1.2	50
50	The importance of boundary conditions in the simulation of dissolution in the USP dissolution apparatus. Simulation Modelling Practice and Theory, 2007, 15, 247-255.	2.2	2
51	The reaction of stock markets to crashes and events: A comparison study between emerging and mature markets using wavelet transforms. Physica A: Statistical Mechanics and Its Applications, 2006, 368, 511-521.	1.2	35
52	Probabilistic models for drug dissolution. Part 1. Review of Monte Carlo and stochastic cellular automata approaches. Simulation Modelling Practice and Theory, 2006, 14, 843-856.	2.2	29
53	Probabilistic methods for drug dissolution. Part 2. Modelling a soluble binary drug delivery system dissolving in vitro. Simulation Modelling Practice and Theory, 2006, 14, 857-873.	2.2	23
54	INTERRELATIONSHIPS AMONG INTERNATIONAL STOCK MARKET INDICES: EUROPE, ASIA AND THE AMERICAS. International Journal of Theoretical and Applied Finance, 2005, 08, 603-622.	0.2	25

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55	A Sequence-Focused Parallelisation of EMBOSS on a Cluster of Workstations. Lecture Notes in Computer Science, 2004, , 473-480.	1.0	0
56	Simulation of the USP drug delivery problem using CFD: experimental, numerical and mathematical aspects. Simulation Modelling Practice and Theory, 2004, 12, 147-158.	2.2	16
57	Random matrix theory for portfolio optimization: a stability approach. Physica A: Statistical Mechanics and Its Applications, 2004, 335, 629-643.	1.2	74
58	A Pohlhausen solution for the mass flux from a multi-layered compact in the USP drug dissolution apparatus. Simulation Modelling Practice and Theory, 2004, 12, 397-411.	2.2	6
59	Calculation of interlaminar stresses in laminated plates using Walsh transforms. AIAA Journal, 1996, 34, 1295-1299.	1.5	0
60	Causality and the Complex Modulus Model of Damping. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1995, 75, 807-808.	0.9	3
61	Studentsâ€™ Behaviours in using Learning Resources in Higher Education: How do behaviours reflect success in Programming Education?. , 0, , .		4
62	Wavelet Multiscale Analysis for Hedge Funds: Scaling and Strategies. SSRN Electronic Journal, 0, , .	0.4	2