

# Gregory M Provın

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

347  
citations

1162367

8  
h-index

887659

17  
g-index

44  
all docs

44  
docs citations

44  
times ranked

330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated stoichiometric, thermodynamic and kinetic modelling of steady state metabolism. Journal of Theoretical Biology, 2010, 264, 683-692.	0.8	55
2	A logic-based analysis of Dempster-Shafer theory. International Journal of Approximate Reasoning, 1990, 4, 451-495.	1.9	50
3	Codon Size Reduction as the Origin of the Triplet Genetic Code. PLoS ONE, 2009, 4, e5708.	1.1	44
4	Dynamic network construction and updating techniques for the diagnosis of acute abdominal pain. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1993, 15, 299-307.	9.7	39
5	The validity of Dempster-Shafer belief functions. International Journal of Approximate Reasoning, 1992, 6, 389-399.	1.9	21
6	Model-based Fault Detection and Diagnosis of Air Handling Units: A Comparison of Methodologies. Energy Procedia, 2014, 62, 686-693.	1.8	20
7	Model-Based Diagnostic decision-support system for satellites. , 2013, , .		15
8	A computationally efficient method for fault diagnosis of fan-coil unit terminals in building Heating Ventilation and Air Conditioning systems. Journal of Building Engineering, 2020, 27, 100955.	1.6	15
9	CodonLogo: a sequence logo-based viewer for codon patterns. Bioinformatics, 2012, 28, 1935-1936.	1.8	9
10	TOPOLOGICAL ANALYSIS OF SPECIFIC SPATIAL COMPLEX NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2009, 12, 45-71.	0.9	8
11	Co-design of Wireless Sensor-Actuator Networks for building controls. , 2011, , .		8
12	A model-based control method for decentralized calibration of wireless sensor networks. , 2013, , .		7
13	Designing cost-efficient wireless sensor/actuator networks for building control systems. , 2012, , .		5
14	Characterizing the Structural Complexity of Real-World Complex Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 1178-1189.	0.2	5
15	Model-based fault-tolerant control reconfiguration for general network topologies. IEEE Micro, 2001, 21, 64-76.	1.8	4
16	A Benchmark Diagnostic Model Generation System. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 959-981.	3.4	4
17	The Application of Dempster Shafer Theory to a Logic-Based Visual Recognition System. Machine Intelligence and Pattern Recognition, 1990, 10, 389-405.	0.2	4
18	An analysis of knowledge representation schemes for high level vision. Lecture Notes in Computer Science, 1990, , 537-541.	1.0	3

#	ARTICLE	IF	CITATIONS
19	An Analysis of Performance-critical Properties of Modelica Models. IFAC-PapersOnLine, 2015, 48, 210-215.	0.5	3
20	Towards an Explainable Approach for Insider Threat Detection: Constraint Network Learning. , 2020, , .		3
21	A Comparative Analysis of Specific Spatial Network Topological Models. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 1514-1525.	0.2	3
22	Learning with Probabilistic Representations. Machine Learning, 1997, 29, 91-101.	3.4	2
23	<title>System diagnosability analysis using model-based diagnosis tools</title>. , 2001, , .		2
24	On motifs and functional modules in complex networks. , 2009, , .		2
25	Sensor Calibration and Diagnostics Under Parameter Uncertainty: A Smart Building Application*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 409-414.	0.4	2
26	Machine-learning-based circuit synthesis. , 2012, , .		2
27	An efficient decentralized clustering algorithm for aggregation of noisy multi-mean data. Journal of Heuristics, 2015, 21, 301-328.	1.1	2
28	A graphical framework for stochastic model-based diagnosis. , 2016, , .		2
29	Model-Based Diagnosis with Probabilistic Models. , 2019, , 295-318.		2
30	Special Issue on Model-Based Diagnostics. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2010, 40, 870-873.	3.4	1
31	Co-Design of Embeddable Diagnostics using Reduced-Order Models * *The paper has been supported by SFI grants 12/RC/2289 and 13/RC/2094. IFAC-PapersOnLine, 2017, 50, 12222-12229.	0.5	1
32	Using Artificial Intelligence for Auto-Generating Software for Cyber-Physical Applications. , 2021, , 211-240.		1
33	Bayesian Model Selection for Diagnostics. Lecture Notes in Computer Science, 2015, , 248-256.	1.0	1
34	Deep Reinforcement Learning and Randomized Blending for Control under Novel Disturbances. IFAC-PapersOnLine, 2020, 53, 8175-8180.	0.5	1
35	Using Database Specifications to Automate the Diagnosis of Factory Automation Systems. , 0, , .		0
36	Adding Flexibility to Russian Doll Search. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
37	A framework and algorithm for model-based active testing. , 2008, , .		0
38	Temporal Model-Based Diagnostics Generation for HVAC Control Systems. Lecture Notes in Computer Science, 2010, , 31-44.	1.0	0
39	The Evaluation of Direct Volume Rendering-Based Uncertainty Visualization Techniques for 3D Scalar Data. International Journal of Image and Graphics, 2014, 14, 1450017.	1.2	0
40	Learning Diagnosis Models Using Variable-Fidelity Component Model Libraries â€¦Supported by SFI grant 12/RC/2289.. IFAC-PapersOnLine, 2015, 48, 428-433.	0.5	0
41	Diagnosing Hybrid Dynamical Systems Using Max-Plus Algebraic Methods. , 2018, , 79-99.		0
42	Quantitatively Visualizing Uncertainty Information using Volume Ray-Casting Rendering, Linked View and Scatter Plot for Volumetric Data. , 2012, , .		0