Gregory M Prován

List of Publications by Year
in descending order

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	Using Artificial Intelligence for Auto-Generating Software for Cyber-Physical Applications. , 2021, , 211-240.		1
2	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
3	Towards an Explainable Approach for Insider Threat Detection: Constraint Network Learning. , 2020, , .		3
4	Deep Reinforcement Learning and Randomized Blending for Control under Novel Disturbances. IFAC-PapersOnLine, 2020, 53, 8175-8180.	0.5	1
5	Model-Based Diagnosis with Probabilistic Models. , 2019, , 295-318.		2
6	Diagnosing Hybrid Dynamical Systems Using Max-Plus Algebraic Methods. , 2018, , 79-99.		0
7	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
8	A graphical framework for stochastic model-based diagnosis. , 2016, , .		2
9	Learning Diagnosis Models Using Variable-Fidelity Component Model Libraries ã˜… ã˜…Supported by SFI grant 12/RC/2289.. IFAC-PapersOnLine, 2015, 48, 428-433.	0.5	0
10	An Analysis of Performance-critical Properties of Modelica Models. IFAC-PapersOnLine, 2015, 48, 210-215.	0.5	3
11	An efficient decentralized clustering algorithm for aggregation of noisy multi-mean data. Journal of Heuristics, 2015, 21, 301-328.	1.1	2
12	Bayesian Model Selection for Diagnostics. Lecture Notes in Computer Science, 2015, , 248-256.	1.0	1
13	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
14	Model-based Fault Detection and Diagnosis of Air Handling Units: A Comparison of Methodologies. Energy Procedia, 2014, 62, 686-693.	1.8	20
15	Model-Based Diagnostic decision-support system for satellites. , 2013, , .		15
16	A model-based control method for decentralized calibration of wireless sensor networks. , 2013, , .		7
17	Designing cost-efficient wireless sensor/actuator networks for building control systems. , 2012, , .		5
18	CodonLogo: a sequence logo-based viewer for codon patterns. Bioinformatics, 2012, 28, 1935-1936.	1.8	9

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19	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
20	Machine-learning-based circuit synthesis. , 2012, , .		2
21	Quantitatively Visualizing Uncertainty Information using Volume Ray-Casting Rendering, Linked View and Scatter Plot for Volumetric Data. , 2012, , .		0
22	Co-design of Wireless Sensor-Actuator Networks for building controls. , 2011, , .		8
23	Integrated stoichiometric, thermodynamic and kinetic modelling of steady state metabolism. Journal of Theoretical Biology, 2010, 264, 683-692.	0.8	55
24	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
25	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
26	Temporal Model-Based Diagnostics Generation for HVAC Control Systems. Lecture Notes in Computer Science, 2010, , 31-44.	1.0	0
27	Codon Size Reduction as the Origin of the Triplet Genetic Code. PLoS ONE, 2009, 4, e5708.	1.1	44
28	TOPOLOGICAL ANALYSIS OF SPECIFIC SPATIAL COMPLEX NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2009, 12, 45-71.	0.9	8
29	On motifs and functional modules in complex networks. , 2009, , .		2
30	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
31	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
32	Adding Flexibility to Russian Doll Search. , 2008, , .		0
33	A framework and algorithm for model-based active testing. , 2008, , .		0
34	Model-based fault-tolerant control reconfiguration for general network topologies. IEEE Micro, 2001, 21, 64-76.	1.8	4
35	<title>System diagnosability analysis using model-based diagnosis tools</title>. , 2001, , .		2
36	Learning with Probabilistic Representations. Machine Learning, 1997, 29, 91-101.	3.4	2

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37	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
38	The validity of Dempster-Shafer belief functions. International Journal of Approximate Reasoning, 1992, 6, 389-399.	1.9	21
39	An analysis of knowledge representation schemes for high level vision. Lecture Notes in Computer Science, 1990, , 537-541.	1.0	3
40	A logic-based analysis of Dempster-Shafer theory. International Journal of Approximate Reasoning, 1990, 4, 451-495.	1.9	50
41	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
42	Using Database Specifications to Automate the Diagnosis of Factory Automation Systems. , 0, , .		0