

# Mauro Vallati

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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.

85  
papers

412  
citations

10  
h-index

16  
g-index

98  
ext. papers

525  
ext. citations

1.6  
avg, IF

3.87  
L-index

#	Paper	IF	Citations
85	A Sound (But Incomplete) Polynomial Translation from Discretised PDDL+ to Numeric Planning. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 18-31	0.9	
84	Manipulation of Articulated Objects Using Dual-arm Robots via Answer Set Programming. <i>Theory and Practice of Logic Programming</i> , <b>2021</b> , 21, 372-401	0.8	1
83	On the Importance of Domain Model Configuration for Automated Planning Engines. <i>Journal of Automated Reasoning</i> , <b>2021</b> , 65, 727-773	1	1
82	In Defence of Design Patterns for AI Planning Knowledge Models. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 191-203	0.9	
81	An Efficient Hybrid Planning Framework for In-Station Train Dispatching. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 168-182	0.9	
80	An Efficient Algorithm for Semi-stable Extensions. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 117-135	0.9	
79	An experimental analysis on the similarity of argumentation semantics. <i>Argument and Computation</i> , <b>2020</b> , 11, 269-304	0.8	2
78	MEvo: a framework for effective macro sets evolution. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , <b>2020</b> , 32, 685-703	2	1
77	Reducing Traffic Congestion in Urban Areas via Real-Time Re-Routing: A Simulation Study. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 69-81	0.9	
76	A Mixed-Integer Programming Approach for Scheduling Roadworks in Urban Regions. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 82-93	0.9	
75	An Empirical Analysis of Predictors for Workload Estimation in Healthcare. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 304-311	0.9	1
74	Centralised Versus Decentralised Traffic Optimisation of Urban Road Networks: A Simulation Study <b>2020</b> ,		1
73	What Role Can Process Mining Play in Recurrent Clinical Guidelines Issues? A Position Paper. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	7
72	Maximising goals achievement through abstract argumentation frameworks: An optimal approach. <i>Expert Systems With Applications</i> , <b>2020</b> , 141, 112930	7.8	1
71	Enabling the use of a planning agent for urban traffic management via enriched and integrated urban data. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2019</b> , 98, 284-297	8.4	1
70	Inner entanglements: Narrowing the search in classical planning by problem reformulation. <i>Computational Intelligence</i> , <b>2019</b> , 35, 395-429	2.5	3
69	Predictive models and abstract argumentation: the case of high-complexity semantics. <i>Knowledge Engineering Review</i> , <b>2019</b> , 34,	2.1	1

68	On the predictability of domain-independent temporal planners. <i>Computational Intelligence</i> , <b>2019</b> , 35, 745-773	2.5	2
67	How we designed winning algorithms for abstract argumentation and which insight we attained. <i>Artificial Intelligence</i> , <b>2019</b> , 276, 1-40	3.6	5
66	On the Feasibility of Distributed Process Mining in Healthcare. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 445-452	0.9	2
65	An ASP-Based Framework for the Manipulation of Articulated Objects Using Dual-Arm Robots. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 32-44	0.9	2
64	How to Plan Roadworks in Urban Regions? A Principled Approach Based on AI Planning. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 453-460	0.9	2
63	Automated Planning Encodings for the Manipulation of Articulated Objects in 3D with Gravity. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 135-150	0.9	1
62	Clinical Guidelines: A Crossroad of Many Research Areas. Challenges and Opportunities in Process Mining for Healthcare. <i>Lecture Notes in Business Information Processing</i> , <b>2019</b> , 545-556	0.6	12
61	A General Approach to Exploit Model Predictive Control for Guiding Automated Planning Search in Hybrid Domains. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 139-145	0.9	
60	Exploiting automated planning for efficient centralized vehicle routing and mitigating congestion in urban road networks <b>2019</b> ,		2
59	Improving Planning Performance in PDDL+ Domains via Automated Predicate Reformulation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 491-498	0.9	1
58	On the Configuration of SAT Formulae. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 264-277	0.9	2
57	Improving Domain-Independent Planning via Critical Section Macro-Operators. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , <b>2019</b> , 33, 7546-7553	5	2
56	On the Robustness of Domain-Independent Planning Engines <b>2019</b> ,		1
55	Towards a modular decision support system for radiomics: A case study on rectal cancer. <i>Artificial Intelligence in Medicine</i> , <b>2019</b> , 96, 145-153	7.4	20
54	GraphBAD: A general technique for anomaly detection in security information and event management. <i>Concurrency Computation Practice and Experience</i> , <b>2018</b> , 30, e4433	1.4	8
53	On the impact of configuration on abstract argumentation automated reasoning. <i>International Journal of Approximate Reasoning</i> , <b>2018</b> , 92, 120-138	3.6	7
52	Outer entanglements: a general heuristic technique for improving the efficiency of planning algorithms. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , <b>2018</b> , 30, 831-856	2	3
51	On the Configuration of Robust Static Parallel Portfolios for Efficient Plan Generation. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 15-27	0.9	

50	An Innovative Heuristic for Planning-Based Urban Traffic Control. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 181-193	0.9	
49	Performance robustness of AI planners in the 2014 International Planning Competition. <i>AI Communications</i> , <b>2018</b> , 31, 445-463	0.8	2
48	Automated Training Plan Generation for Athletes <b>2018</b> ,		2
47	A Principled Analysis of the Interrelation between Vehicular Communication and Reasoning Capabilities of Autonomous Vehicles <b>2018</b> ,		2
46	Unveiling the oracle: Artificial intelligence for the 21st century. <i>Intelligent Decision Technologies</i> , <b>2018</b> , 12, 371-379	0.7	
45	<b>2018</b> ,		6
44	On the manipulation of articulated objects in human-robot cooperation scenarios. <i>Robotics and Autonomous Systems</i> , <b>2018</b> , 109, 139-155	3.5	14
43	What you always wanted to know about the deterministic part of the International Planning Competition (IPC) 2014 (but were too afraid to ask). <i>Knowledge Engineering Review</i> , <b>2018</b> , 33,	2.1	8
42	Static and Dynamic Portfolio Methods for Optimal Planning: An Empirical Analysis. <i>International Journal on Artificial Intelligence Tools</i> , <b>2017</b> , 26, 1760006	0.9	9
41	An Efficient Java-Based Solver for Abstract Argumentation Frameworks: jArgSemSAT. <i>International Journal on Artificial Intelligence Tools</i> , <b>2017</b> , 26, 1750002	0.9	5
40	The Fifth International Competition on Knowledge Engineering for Planning and Scheduling: Summary and Trends. <i>AI Magazine</i> , <b>2017</b> , 38, 104-106	6.1	6
39	Engineering Knowledge for Automated Planning <b>2017</b> ,		7
38	PRODIGE: PRediction models in prOstate cancer for personalized meDIcine challenGE. <i>Future Oncology</i> , <b>2017</b> , 13, 2171-2181	3.6	6
37	Security auditing in the fog <b>2017</b> ,		2
36	Generating and Comparing Knowledge Graphs of Medical Processes Using pMineR <b>2017</b> ,		10
35	Development and validation of a machine learning-based predictive model to improve the prediction of inguinal status of anal cancer patients: A preliminary report. <i>Oncotarget</i> , <b>2017</b> , 8, 108509-108521	3.3	6
34	Automated Planning for Urban Traffic Management <b>2017</b> ,		12
33	A Hypercat-Enabled Semantic Internet of Things Data Hub. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 1251-1267	1.7	3

32	pMineR: An Innovative R Library for Performing Process Mining in Medicine. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 351-355	0.9	20
31	On the Combination of Argumentation Solvers into Parallel Portfolios. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 315-327	0.9	1
30	Automated Planning Techniques for Robot Manipulation Tasks Involving Articulated Objects. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 483-497	0.9	4
29	On the Evolution of Planner-Specific Macro Sets. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 443-454	0.9	0
28	Symbolic Melodic Similarity: State of the Art and Future Challenges. <i>Computer Music Journal</i> , <b>2016</b> , 40, 70-83	0.5	9
27	RadioBio data: A Moddicom Module to Predict Tumor Control Probability and Normal Tissue Complication Probability in Radiotherapy <b>2016</b> ,		2
26	Automated planning for Urban traffic control: Strategic vehicle routing to respect air quality limitations. <i>Intelligenza Artificiale</i> , <b>2016</b> , 10, 113-128	0.7	9
25	Summary Report of The First International Competition on Computational Models of Argumentation. <i>AI Magazine</i> , <b>2016</b> , 37, 102	6.1	28
24	On the exploitation of Automated Planning for efficient decision making in road traffic accident management <b>2016</b> ,		1
23	Distributed Learning to Protect Privacy in Multi-centric Clinical Studies. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 65-75	0.9	11
22	Exploiting macro-actions and predicting plan length in planning as satisfiability. <i>AI Communications</i> , <b>2015</b> , 28, 323-344	0.8	3
21	Could machine learning improve the prediction of pelvic nodal status of prostate cancer patients? Preliminary results of a pilot study. <i>Cancer Investigation</i> , <b>2015</b> , 33, 232-40	2.1	3
20	Moddicom: a complete and easily accessible library for prognostic evaluations relying on image features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 771-4	0.9	29
19	Portfolio-based planning: State of the art, common practice and open challenges. <i>AI Communications</i> , <b>2015</b> , 28, 717-733	0.8	6
18	The 2014 International Planning Competition: Progress and Trends. <i>AI Magazine</i> , <b>2015</b> , 36, 90-98	6.1	43
17	Portfolio Methods for Optimal Planning: An Empirical Analysis <b>2015</b> ,		2
16	ASCoL: A Tool for Improving Automatic Planning Domain Model Acquisition. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 438-451	0.9	2
15	On the Stylistic Evolution of a Society of Virtual Melody Composers. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 249-260	0.9	1

14	On the Efficient Allocation of Diagnostic Activities in Modern Imaging Departments. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 103-109	0.9	2
13	Discovering Interesting Trends in Real Medical Data: A Study in Diabetic Retinopathy. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 134-140	0.9	0
12	ASAP: An Automatic Algorithm Selection Approach for Planning. <i>International Journal on Artificial Intelligence Tools</i> , <b>2014</b> , 23, 1460032	0.9	8
11	Computing Preferred Extensions in Abstract Argumentation: A SAT-Based Approach. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 176-193	0.9	23
10	An Automatic Algorithm Selection Approach for Planning <b>2013</b> ,		2
9	Learnability of Specific Structural Patterns of Planning Problems <b>2013</b> ,		1
8	Efficient planning through automatic configuration and machine learning. <i>AI Communications</i> , <b>2013</b> , 26, 319-321	0.8	
7	Exploiting Machine Learning for Predicting Nodal Status in Prostate Cancer Patients. <i>IFIP Advances in Information and Communication Technology</i> , <b>2013</b> , 61-70	0.5	1
6	Autonomic System Architecture: An Automated Planning Perspective. <i>IFIP Advances in Information and Communication Technology</i> , <b>2013</b> , 121-130	0.5	1
5	Underestimation vs. Overestimation in SAT-Based Planning. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 276-287	0.9	1
4	A Guide to Portfolio-Based Planning. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 57-68	0.9	
3	Exploiting Macro-actions and Predicting Plan Length in Planning as Satisfiability. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 189-200	0.9	2
2	Improving Domain-Independent Heuristic State-Space Planning via plan cost predictions. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 1-27		2
1	On the Configuration of More and Less Expressive Logic Programs. <i>Theory and Practice of Logic Programming</i> , 1-29	0.8	