

# Mauro Vallati

## List of Publications by Year in descending order

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Version: 2024-02-01

95  
papers

702  
citations

840119

11  
h-index

794141

19  
g-index

100  
all docs

100  
docs citations

100  
times ranked

581  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2014 International Planning Competition: Progress and Trends. <i>AI Magazine</i> , 2015, 36, 90-98.	1.4	56
2	Moddicom: a complete and easily accessible library for prognostic evaluations relying on image features. , 2015, 2015, 771-4.		39
3	Summary Report of the First International Competition on Computational Models of Argumentation. <i>AI Magazine</i> , 2016, 37, 102-104.	1.4	36
4	Towards a modular decision support system for radiomics: A case study on rectal cancer. <i>Artificial Intelligence in Medicine</i> , 2019, 96, 145-153.	3.8	36
5	pMineR: An Innovative R Library for Performing Process Mining in Medicine. <i>Lecture Notes in Computer Science</i> , 2017, , 351-355.	1.0	34
6	Computing Preferred Extensions in Abstract Argumentation: A SAT-Based Approach. <i>Lecture Notes in Computer Science</i> , 2014, , 176-193.	1.0	32
7	On the manipulation of articulated objects in human-robot cooperation scenarios. <i>Robotics and Autonomous Systems</i> , 2018, 109, 139-155.	3.0	24
8	Generating and Comparing Knowledge Graphs of Medical Processes Using pMineR. , 2017, , .		20
9	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> , 2018, 33, .	2.1	19
10	Automated planning for Urban traffic control: Strategic vehicle routing to respect air quality limitations. <i>Intelligenza Artificiale</i> , 2016, 10, 113-128.	1.0	17
11	Distributed Learning to Protect Privacy in Multi-centric Clinical Studies. <i>Lecture Notes in Computer Science</i> , 2015, , 65-75.	1.0	15
12	Symbolic Melodic Similarity: State of the Art and Future Challenges. <i>Computer Music Journal</i> , 2016, 40, 70-83.	0.3	15
13	A Framework for Event Log Generation and Knowledge Representation for Process Mining in Healthcare. , 2018, , .		15
14	Engineering Knowledge for Automated Planning. , 2017, , .		14
15	Automated Planning for Urban Traffic Management. , 2017, , .		14
16	Clinical Guidelines: A Crossroad of Many Research Areas. Challenges and Opportunities in Process Mining for Healthcare. <i>Lecture Notes in Business Information Processing</i> , 2019, , 545-556.	0.8	14
17	What Role Can Process Mining Play in Recurrent Clinical Guidelines Issues? A Position Paper. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 6616.	1.2	12
18	Static and Dynamic Portfolio Methods for Optimal Planning: An Empirical Analysis. <i>International Journal on Artificial Intelligence Tools</i> , 2017, 26, 1760006.	0.7	11

#	ARTICLE	IF	CITATIONS
19	GraphBAD: A general technique for anomaly detection in security information and event management. <i>Concurrency Computation Practice and Experience</i> , 2018, 30, e4433.	1.4	11
20	How we designed winning algorithms for abstract argumentation and which insight we attained. <i>Artificial Intelligence</i> , 2019, 276, 1-40.	3.9	10
21	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> , 2019, 98, 284-297.	3.9	10
22	Portfolio-based planning: State of the art, common practice and open challenges. <i>AI Communications</i> , 2015, 28, 717-733.	0.8	9
23	An Efficient Java-Based Solver for Abstract Argumentation Frameworks: jArgSemSAT. <i>International Journal on Artificial Intelligence Tools</i> , 2017, 26, 1750002.	0.7	9
24	PRODIGE: PRediction models in prOstate cancer for personalized meDIcine challenGE. <i>Future Oncology</i> , 2017, 13, 2171-2181.	1.1	9
25	On the impact of configuration on abstract argumentation automated reasoning. <i>International Journal of Approximate Reasoning</i> , 2018, 92, 120-138.	1.9	9
26	A Principled Analysis of the Interrelation between Vehicular Communication and Reasoning Capabilities of Autonomous Vehicles. , 2018, , .		9
27	ASAP: An Automatic Algorithm Selection Approach for Planning. <i>International Journal on Artificial Intelligence Tools</i> , 2014, 23, 1460032.	0.7	8
28	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> , 2017, 8, 108509-108521.	0.8	8
29	Exploiting automated planning for efficient centralized vehicle routing and mitigating congestion in urban road networks. , 2019, , .		8
30	The Fifth International Competition on Knowledge Engineering for Planning and Scheduling: Summary and Trends. <i>AI Magazine</i> , 2017, 38, 104-106.	1.4	7
31	A Hypercat-Enabled Semantic Internet of Things Data Hub. <i>Lecture Notes in Computer Science</i> , 2017, , 125-137.	1.0	7
32	Automated Planning Techniques for Robot Manipulation Tasks Involving Articulated Objects. <i>Lecture Notes in Computer Science</i> , 2017, , 483-497.	1.0	7
33	A Hybrid Automated Planning Approach for Urban Real-time Routing of Connected Vehicles. , 2021, , .		7
34	Inner entanglements: Narrowing the search in classical planning by problem reformulation. <i>Computational Intelligence</i> , 2019, 35, 395-429.	2.1	6
35	The deceitful Connected and Autonomous Vehicle: Defining the concept, contextualising its dimensions and proposing mitigation policies. <i>Transport Policy</i> , 2022, 122, 1-10.	3.4	6
36	An Automatic Algorithm Selection Approach for Planning. , 2013, , .		5

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37	Exploiting macro-actions and predicting plan length in planning as satisfiability. <i>AI Communications</i> , 2015, 28, 323-344.	0.8	5
38	Outer entanglements: a general heuristic technique for improving the efficiency of planning algorithms. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2018, 30, 831-856.	1.8	5
39	Improving Domain-Independent Planning via Critical Section Macro-Operators. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 7546-7553.	3.6	5
40	An experimental analysis on the similarity of argumentation semantics. <i>Argument and Computation</i> , 2020, 11, 269-304.	0.7	5
41	Automated Planning Encodings for the Manipulation of Articulated Objects in 3D with Gravity. <i>Lecture Notes in Computer Science</i> , 2019, , 135-150.	1.0	5
42	Could Machine Learning Improve the Prediction of Pelvic Nodal Status of Prostate Cancer Patients? Preliminary Results of a Pilot Study. <i>Cancer Investigation</i> , 2015, 33, 232-240.	0.6	4
43	Automated Training Plan Generation for Athletes. , 2018, , .		4
44	Effective Real-Time Urban Traffic Routing: An Automated Planning Approach. , 2021, , .		4
45	Exploiting Macro-actions and Predicting Plan Length in Planning as Satisfiability. <i>Lecture Notes in Computer Science</i> , 2011, , 189-200.	1.0	4
46	Exploiting Classical Planning Grounding in Hybrid PDDL+ Planning Engines. , 2020, , .		4
47	Manipulation of Articulated Objects Using Dual-arm Robots via Answer Set Programming. <i>Theory and Practice of Logic Programming</i> , 2021, 21, 372-401.	1.1	4
48	Learnability of Specific Structural Patterns of Planning Problems. , 2013, , .		3
49	On the exploitation of Automated Planning for efficient decision making in road traffic accident management. , 2016, , .		3
50	Performance robustness of AI planners in the 2014 International Planning Competition. <i>AI Communications</i> , 2018, 31, 445-463.	0.8	3
51	On the Robustness of Domain-Independent Planning Engines. , 2019, , .		3
52	MEvo: a framework for effective macro sets evolution. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2020, 32, 685-703.	1.8	3
53	A Quality Framework for Automated Planning Knowledge Models. , 2021, , .		3
54	On the Importance of Domain Model Configuration for Automated Planning Engines. <i>Journal of Automated Reasoning</i> , 2021, 65, 727-773.	1.1	3

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55	ASCoL: A Tool for Improving Automatic Planning Domain Model Acquisition. Lecture Notes in Computer Science, 2015, , 438-451.	1.0	3
56	An Innovative Heuristic for Planning-Based Urban Traffic Control. Lecture Notes in Computer Science, 2018, , 181-193.	1.0	3
57	On the Feasibility of Distributed Process Mining in Healthcare. Lecture Notes in Computer Science, 2019, , 445-452.	1.0	3
58	On-the-Fly Knowledge Acquisition for Automated Planning Applications: Challenges and Lessons Learnt. , 2022, , .		3
59	Portfolio Methods for Optimal Planning: An Empirical Analysis. , 2015, , .		2
60	Identifying and Exploiting Features for Effective Plan Retrieval in Case-Based Planning. Fundamenta Informaticae, 2016, 149, 209-240.	0.3	2
61	Security auditing in the fog. , 2017, , .		2
62	On the predictability of domain-independent temporal planners. Computational Intelligence, 2019, 35, 745-773.	2.1	2
63	Centralised Versus Decentralised Traffic Optimisation of Urban Road Networks: A Simulation Study. , 2020, , .		2
64	Effective grounding for hybrid planning problems represented in PDDL+. Knowledge Engineering Review, 2021, 36, .	2.1	2
65	On the Configuration of SAT Formulae. Lecture Notes in Computer Science, 2019, , 264-277.	1.0	2
66	Exploiting Machine Learning for Predicting Nodal Status in Prostate Cancer Patients. IFIP Advances in Information and Communication Technology, 2013, , 61-70.	0.5	2
67	RadioBio data: A Moddicom Module to Predict Tumor Control Probability and Normal Tissue Complication Probability in Radiotherapy. , 2016, , .		2
68	Autonomic System Architecture: An Automated Planning Perspective. IFIP Advances in Information and Communication Technology, 2013, , 121-130.	0.5	2
69	On the Efficient Allocation of Diagnostic Activities in Modern Imaging Departments. Lecture Notes in Computer Science, 2015, , 103-109.	1.0	2
70	An ASP-Based Framework for the Manipulation of Articulated Objects Using Dual-Arm Robots. Lecture Notes in Computer Science, 2019, , 32-44.	1.0	2
71	How to Plan Roadworks in Urban Regions? A Principled Approach Based on AI Planning. Lecture Notes in Computer Science, 2019, , 453-460.	1.0	2
72	Unveiling the oracle: Artificial intelligence for the 21st century. Intelligent Decision Technologies, 2018, 12, 371-379.	0.6	1

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73	Predictive models and abstract argumentation: the case of high-complexity semantics. Knowledge Engineering Review, 2019, 34, .	2.1	1
74	Maximising goals achievement through abstract argumentation frameworks: An optimal approach. Expert Systems With Applications, 2020, 141, 112930.	4.4	1
75	In Defence of Design Patterns for AI Planning Knowledge Models. Lecture Notes in Computer Science, 2021, , 191-203.	1.0	1
76	On the Combination of Argumentation Solvers into Parallel Portfolios. Lecture Notes in Computer Science, 2017, , 315-327.	1.0	1
77	Underestimation vs. Overestimation in SAT-Based Planning. Lecture Notes in Computer Science, 2013, , 276-287.	1.0	1
78	On the Stylistic Evolution of a Society of Virtual Melody Composers. Lecture Notes in Computer Science, 2015, , 249-260.	1.0	1
79	Discovering Interesting Trends in Real Medical Data: A Study in Diabetic Retinopathy. Lecture Notes in Computer Science, 2015, , 134-140.	1.0	1
80	Bridging the Gap between Knowledge Representation and Electronic Health Records. , 2016, , .		1
81	On the Evolution of Planner-Specific Macro Sets. Lecture Notes in Computer Science, 2017, , 443-454.	1.0	1
82	A Sound (But Incomplete) Polynomial Translation from Discretised PDDL+ to Numeric Planning. Lecture Notes in Computer Science, 2022, , 18-31.	1.0	1
83	Efficient planning through automatic configuration and machine learning. AI Communications, 2013, 26, 319-321.	0.8	0
84	Determining Representativeness of Training Plans: A Case of Macro-Operators. , 2018, , .		0
85	On the Configuration of Robust Static Parallel Portfolios for Efficient Plan Generation. Lecture Notes in Computer Science, 2018, , 15-27.	1.0	0
86	An Efficient Hybrid Planning Framework for In-Station Train Dispatching. Lecture Notes in Computer Science, 2021, , 168-182.	1.0	0
87	An Efficient Algorithm for Semi-stable Extensions. Lecture Notes in Computer Science, 2021, , 117-135.	1.0	0
88	Skeptical Reasoning with Preferred Semantics in Abstract Argumentation without Computing Preferred Extensions. , 2021, , .		0
89	A General Approach to Exploit Model Predictive Control for Guiding Automated Planning Search in Hybrid Domains. Lecture Notes in Computer Science, 2019, , 139-145.	1.0	0
90	Improving Domain-Independent Heuristic State-Space Planning via plan cost predictions. Journal of Experimental and Theoretical Artificial Intelligence, 2023, 35, 849-875.	1.8	0

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91	Reducing Traffic Congestion in Urban Areas via Real-Time Re-Routing: A Simulation Study. Lecture Notes in Computer Science, 2020, , 69-81.	1.0	0
92	A Mixed-Integer Programming Approach for Scheduling Roadworks in Urban Regions. Lecture Notes in Computer Science, 2020, , 82-93.	1.0	0
93	Configurable Heuristic Adaptation for Improving Best First Search in AI Planning. , 2020, , .		0
94	Collaborative Robotic Manipulation: A Use Case of Articulated Objects in Three-dimensions with Gravity. , 2020, , .		0
95	On the Configuration of More and Less Expressive Logic Programs. Theory and Practice of Logic Programming, 2023, 23, 415-443.	1.1	0