

# Vasumathi Raman

## List of Publications by Year in descending order

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21  
papers

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citations

840585

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g-index

22  
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docs citations

22  
times ranked

514  
citing authors

#	ARTICLE	IF	CITATIONS
1	Model predictive control with signal temporal logic specifications. , 2014, , .		251
2	Reactive synthesis from signal temporal logic specifications. , 2015, , .		140
3	Synthesis for Robots: Guarantees and Feedback for Robot Behavior. Annual Review of Control, Robotics, and Autonomous Systems, 2018, 1, 211-236.	7.5	92
4	Slugs: Extensible GR(1) Synthesis. Lecture Notes in Computer Science, 2016, , 333-339.	1.0	62
5	Reactive mission and motion planning with deadlock resolution avoiding dynamic obstacles. Autonomous Robots, 2018, 42, 801-824.	3.2	45
6	Provably correct reactive control from natural language. Autonomous Robots, 2015, 38, 89-105.	3.2	37
7	Explaining Impossible High-Level Robot Behaviors. IEEE Transactions on Robotics, 2013, 29, 94-104.	7.3	36
8	Safe Autonomy Under Perception Uncertainty Using Chance-Constrained Temporal Logic. Journal of Automated Reasoning, 2018, 60, 43-62.	1.1	33
9	Robust Model Predictive Control for Signal Temporal Logic Synthesis. IFAC-PapersOnLine, 2015, 48, 323-328.	0.5	30
10	Synthesis of Obfuscation Policies to Ensure Privacy and Utility. Journal of Automated Reasoning, 2018, 60, 107-131.	1.1	29
11	Provably correct continuous control for high-level robot behaviors with actions of arbitrary execution durations. , 2013, , .		22
12	Synthesis for multi-robot controllers with interleaved motion. , 2014, , .		22
13	Automated feedback for unachievable high-level robot behaviors. , 2012, , .		19
14	Towards minimal explanations of unsynthesizability for high-level robot behaviors. , 2013, , .		17
15	Automated Synthesis of Safe Autonomous Vehicle Control Under Perception Uncertainty. Lecture Notes in Computer Science, 2016, , 117-132.	1.0	15
16	Timing Semantics for Abstraction and Execution of Synthesized High-Level Robot Control. IEEE Transactions on Robotics, 2015, 31, 591-604.	7.3	12
17	Reactive switching protocols for multi-robot high-level tasks. , 2014, , .		11
18	Obfuscator Synthesis for Privacy and Utility. Lecture Notes in Computer Science, 2016, , 133-149.	1.0	10

#	ARTICLE	IF	CITATIONS
19	Temporal logic robot mission planning for slow and fast actions. , 2012, , .		8
20	Generating Dominant Strategies for Continuous Two-Player Zero-Sum Games. IFAC-PapersOnLine, 2018, 51, 7-12.	0.5	3
21	Avoiding forgetfulness: Structured English specifications for high-level robot control with implicit memory. , 2012, , .		0