

Xiaowei Huang

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,202
citations

1039406

9
h-index

794141

19
g-index

38
all docs

38
docs citations

38
times ranked

629
citing authors

#	ARTICLE	IF	CITATIONS
1	An accident prediction architecture based on spatio-temporal stochastic and hybrid model for autonomous driving safety. <i>Concurrency Computation Practice and Experience</i> , 2023, 35, e6550.	1.4	1
2	Quantifying safety risks of deep neural networks. <i>Complex & Intelligent Systems</i> , 2023, 9, 3801-3818.	4.0	5
3	Embedding and extraction of knowledge in tree ensemble classifiers. <i>Machine Learning</i> , 2022, 111, 1925-1958.	3.4	5
4	An Overview of Verification and Validation Challenges for Inspection Robots. <i>Robotics</i> , 2021, 10, 67.	2.1	30
5	Safety and reliability of deep learning. , 2021, , .		1
6	Enhancing Robustness Verification for Deep Neural Networks via Symbolic Propagation. <i>Formal Aspects of Computing</i> , 2021, 33, 407-435.	1.4	10
7	Statistical Certification of Acceptable Robustness for Neural Networks. <i>Lecture Notes in Computer Science</i> , 2021, , 79-90.	1.0	8
8	Adversarial Robustness of Deep Learning: Theory, Algorithms, and Applications. , 2021, , .		7
9	A game-based approximate verification of deep neural networks with provable guarantees. <i>Theoretical Computer Science</i> , 2020, 807, 298-329.	0.5	56
10	Reliability Validation of Learning Enabled Vehicle Tracking. , 2020, , .		5
11	A survey of safety and trustworthiness of deep neural networks: Verification, testing, adversarial attack and defence, and interpretability. <i>Computer Science Review</i> , 2020, 37, 100270.	10.2	203
12	A Safety Framework for Critical Systems Utilising Deep Neural Networks. <i>Lecture Notes in Computer Science</i> , 2020, , 244-259.	1.0	21
13	Explaining Image Classifiers Using Statistical Fault Localization. <i>Lecture Notes in Computer Science</i> , 2020, , 391-406.	1.0	21
14	PRODeep: a platform for robustness verification of deep neural networks. , 2020, , .		12
15	Multiclock Constraint System Modelling and Verification for Ensuring Cooperative Autonomous Driving Safety. <i>Journal of Advanced Transportation</i> , 2020, 2020, 1-24.	0.9	3
16	Practical Verification of Neural Network Enabled State Estimation System for Robotics. , 2020, , .		2
17	Generalizing Universal Adversarial Attacks Beyond Additive Perturbations. , 2020, , .		6
18	Gaze-based Intention Anticipation over Driving Manoeuvres in Semi-Autonomous Vehicles. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
19	Analyzing Deep Neural Networks with Symbolic Propagation: Towards Higher Precision and Faster Verification. Lecture Notes in Computer Science, 2019, , 296-319.	1.0	39
20	Global Robustness Evaluation of Deep Neural Networks with Provable Guarantees for the Hamming Distance. , 2019, , .		47
21	Concolic testing for deep neural networks. , 2018, , .		190
22	Feature-Guided Black-Box Safety Testing of Deep Neural Networks. Lecture Notes in Computer Science, 2018, , 408-426.	1.0	82
23	Model Checking Probabilistic Epistemic Logic for Probabilistic Multiagent Systems. , 2018, , .		5
24	Safety Verification of Deep Neural Networks. Lecture Notes in Computer Science, 2017, , 3-29.	1.0	390
25	Quantified Coalition Logic of Knowledge, Belief and Certainty. Lecture Notes in Computer Science, 2017, , 351-360.	1.0	0
26	ATL Strategic Reasoning Meets Correlated Equilibrium. , 2017, , .		1
27	Bounded model checking of strategy ability with perfect recall. Artificial Intelligence, 2015, 222, 182-200.	3.9	6
28	Symbolic Synthesis for Epistemic Specifications with Observational Semantics. Lecture Notes in Computer Science, 2014, , 455-469.	1.0	3
29	Model Checking for Reasoning about Incomplete Information Games. Lecture Notes in Computer Science, 2013, , 246-258.	1.0	2
30	Symbolic model checking of probabilistic knowledge. , 2011, , .		15
31	A precongruence format for should testing preorder. The Journal of Logic and Algebraic Programming, 2010, 79, 245-263.	1.4	0
32	Congruence Formats for Weak Readiness Equivalence and Weak Possible Future Equivalence. Computer Journal, 2010, 53, 21-36.	1.5	1
33	Model Checking Games for a Fair Branching-Time Temporal Epistemic Logic. Lecture Notes in Computer Science, 2009, , 11-20.	1.0	0
34	What Semantic Equivalences Are Suitable for Non-interference Properties in Computer Security. Lecture Notes in Computer Science, 2007, , 334-349.	1.0	0
35	An Epistemic Strategy Logic (Extended Abstract). Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 146, 35-41.	0.8	3
36	Adaptable and Verifiable BDI Reasoning. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 319, 117-125.	0.8	8

#	ARTICLE	IF	CITATIONS
37	The complexity of approximations for epistemic synthesis (extended abstract). Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 202, 120-137.	0.8	0