Xiaowei Huang

List of Publications by Year
in descending order

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	Safety Verification of Deep Neural Networks. Lecture Notes in Computer Science, 2017, , 3-29.	1.0	390
2	A survey of safety and trustworthiness of deep neural networks: Verification, testing, adversarial attack and defence, and interpretability. Computer Science Review, 2020, 37, 100270.	10.2	203
3	Concolic testing for deep neural networks. , 2018, , .		190
4	Feature-Guided Black-Box Safety Testing of Deep Neural Networks. Lecture Notes in Computer Science, 2018, , 408-426.	1.0	82
5	A game-based approximate verification of deep neural networks with provable guarantees. Theoretical Computer Science, 2020, 807, 298-329.	0.5	56
6	Global Robustness Evaluation of Deep Neural Networks with Provable Guarantees for the Hamming Distance. , 2019, , .		47
7	Analyzing Deep Neural Networks with Symbolic Propagation: Towards Higher Precision and Faster Verification. Lecture Notes in Computer Science, 2019, , 296-319.	1.0	39
8	An Overview of Verification and Validation Challenges for Inspection Robots. Robotics, 2021, 10, 67.	2.1	30
9	A Safety Framework for Critical Systems Utilising Deep Neural Networks. Lecture Notes in Computer Science, 2020, , 244-259.	1.0	21
10	Explaining Image Classifiers Using Statistical Fault Localization. Lecture Notes in Computer Science, 2020, , 391-406.	1.0	21
11	Symbolic model checking of probabilistic knowledge. , 2011, , .		15
12	PRODeep: a platform for robustness verification of deep neural networks. , 2020, , .		12
13	Enhancing Robustness Verification for Deep Neural Networks viaÂSymbolic Propagation. Formal Aspects of Computing, 2021, 33, 407-435.	1.4	10
14	Gaze-based Intention Anticipation over Driving Manoeuvres in Semi-Autonomous Vehicles. , 2019, , .		9
15	Statistical Certification of Acceptable Robustness for Neural Networks. Lecture Notes in Computer Science, 2021, , 79-90.	1.0	8
16	Adaptable and Verifiable BDI Reasoning. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 319, 117-125.	0.8	8
17	Adversarial Robustness of Deep Learning: Theory, Algorithms, and Applications. , 2021, , .		7
18	Bounded model checking of strategy ability with perfect recall. Artificial Intelligence, 2015, 222, 182-200.	3.9	6

#	Article	IF	Citations
19	Generalizing Universal Adversarial Attacks Beyond Additive Perturbations. , 2020, , .		6
20	Reliability Validation of Learning Enabled Vehicle Tracking. , 2020, , .		5
21	Model Checking Probabilistic Epistemic Logic for Probabilistic Multiagent Systems. , 2018, , .		5
22	Embedding and extraction of knowledge in tree ensemble classifiers. Machine Learning, 2022, 111, 1925-1958.	3.4	5
23	Quantifying safety risks of deep neural networks. Complex & Intelligent Systems, 2023, 9, 3801-3818.	4.0	5
24	Multiclock Constraint System Modelling and Verification for Ensuring Cooperative Autonomous Driving Safety. Journal of Advanced Transportation, 2020, 2020, 1-24.	0.9	3
25	An Epistemic Strategy Logic (Extended Abstract). Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 146, 35-41.	0.8	3
26	Symbolic Synthesis for Epistemic Specifications with Observational Semantics. Lecture Notes in Computer Science, 2014, , 455-469.	1.0	3
27	Model Checking for Reasoning about Incomplete Information Games. Lecture Notes in Computer Science, 2013, , 246-258.	1.0	2
28	Practical Verification of Neural Network Enabled State Estimation System for Robotics. , 2020, , .		2
29	Congruence Formats for Weak Readiness Equivalence and Weak Possible Future Equivalence. Computer Journal, 2010, 53, 21-36.	1.5	1
30	Safety and reliability of deep learning. , 2021, , .		1
31	An accident prediction architecture based on spatio€clock stochastic and hybrid model for autonomous driving safety. Concurrency Computation Practice and Experience, 2023, 35, e6550.	1.4	1
32	ATL Strategic Reasoning Meets Correlated Equilibrium. , 2017, , .		1
33	A precongruence format for should testing preorder. The Journal of Logic and Algebraic Programming, 2010, 79, 245-263.	1.4	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	Model Checking Games for a Fair Branching-Time Temporal Epistemic Logic. Lecture Notes in Computer Science, 2009, , 11-20.	1.0	0
36	The complexity of approximations for epistemic synthesis (extended abstract). Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 202, 120-137.	0.8	0

#	Article	IF	Citations
37	Quantified Coalition Logic of Knowledge, Belief and Certainty. Lecture Notes in Computer Science, 2017, , 351-360.	1.0	0