

# Chao Shen

## List of Publications by Year in descending order

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80  
papers

2,536  
citations

201385  
27  
h-index

214527  
47  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Gradient-based Saliency Consensus Training for Adversarial Robustness. IEEE Transactions on Dependable and Secure Computing, 2024, , 1-13.	3.7	1
2	PressPIN: Enabling Secure PIN Authentication on Mobile Devices via Structure-Borne Sounds. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 1228-1242.	3.7	2
3	SoundID: Securing Mobile Two-Factor Authentication via Acoustic Signals. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 1687-1701.	3.7	1
4	SEAR: Secure and Efficient Aggregation for Byzantine-Robust Federated Learning. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 3329-3342.	3.7	30
5	An Automated Multi-Tab Website Fingerprinting Attack. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 3656-3670.	3.7	14
6	Traffic Anomaly Prediction Based on Joint Static-Dynamic Spatio-Temporal Evolutionary Learning. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-1.	4.0	2
7	Securing Liveness Detection for Voice Authentication via Pop Noises. IEEE Transactions on Dependable and Secure Computing, 2022, , 1-1.	3.7	2
8	Towards Query-Efficient Adversarial Attacks Against Automatic Speech Recognition Systems. IEEE Transactions on Information Forensics and Security, 2021, 16, 896-908.	4.5	33
9	Multi-Agent Deep Reinforcement Learning for HVAC Control in Commercial Buildings. IEEE Transactions on Smart Grid, 2021, 12, 407-419.	6.2	148
10	A fast and scalable authentication scheme in IOT for smart living. Future Generation Computer Systems, 2021, 117, 125-137.	4.9	15
11	Network-Wide Forwarding Anomaly Detection and Localization in Software Defined Networks. IEEE/ACM Transactions on Networking, 2021, 29, 332-345.	2.6	18
12	AUTOTRAINER: An Automatic DNN Training Problem Detection and Repair System. , 2021, , .		16
13	A Review of Deep Reinforcement Learning for Smart Building Energy Management. IEEE Internet of Things Journal, 2021, 8, 12046-12063.	5.5	136
14	Defense-Resistant Backdoor Attacks Against Deep Neural Networks in Outsourced Cloud Environment. IEEE Journal on Selected Areas in Communications, 2021, 39, 2617-2631.	9.7	18
15	VeriML: Enabling Integrity Assurances and Fair Payments for Machine Learning as a Service. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2524-2540.	4.0	25
16	Deep Learning on Mobile and Embedded Devices. ACM Computing Surveys, 2021, 53, 1-37.	16.1	43
17	Black-box Adversarial Attacks on Commercial Speech Platforms with Minimal Information. , 2021, , .		35
18	An XGBoost-Based Vulnerability Analysis of Smart Grid Cascading Failures under Topology Attacks. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
19	Optimal Operation of a Hydrogen-based Building Multi-Energy System under Uncertainties. , 2021, , .		2
20	Building In-the-Cloud Network Functions: Security and Privacy Challenges. Proceedings of the IEEE, 2021, 109, 1888-1919.	16.4	11
21	Pattern-Growth Based Mining Mouse-Interaction Behavior for an Active User Authentication System. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 335-349.	3.7	33
22	Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2501-2511.	5.9	18
23	Static Output Feedback Control of Switched Nonlinear Systems With Actuator Faults. IEEE Transactions on Fuzzy Systems, 2020, 28, 1600-1609.	6.5	116
24	Dissipative Filtering for Switched Fuzzy Systems With Missing Measurements. IEEE Transactions on Cybernetics, 2020, 50, 1931-1940.	6.2	76
25	We Know Who You Are: Discovering Similar Groups Across Multiple Social Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2693-2704.	5.9	14
26	CoEvil: A Coevolutionary Model for Crime Inference Based on Fuzzy Rough Feature Selection. IEEE Transactions on Fuzzy Systems, 2020, 28, 806-817.	6.5	10
27	Asynchronous Observer-Based Control for Exponential Stabilization of Markov Jump Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2039-2043.	2.2	46
28	Passive browser identification with multi-scale Convolutional Neural Networks. Neurocomputing, 2020, 378, 238-247.	3.5	4
29	Shielding Collaborative Learning: Mitigating Poisoning Attacks through Client-Side Detection. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	3.7	36
30	Waving Gesture Analysis for User Authentication in the Mobile Environment. IEEE Network, 2020, 34, 57-63.	4.9	5
31	False data injection attacks against smart grid state estimation: Construction, detection and defense. Science China Technological Sciences, 2019, 62, 2077-2087.	2.0	43
32	Event-Triggered Output Feedback Control of Takagi-Sugeno Fuzzy Systems. , 2019, , .		0
33	A Compensation Control Scheme against DoS Attack for Nonlinear Cyber-Physical Systems. , 2019, , .		1
34	Digger. ACM Transactions on Knowledge Discovery From Data, 2019, 13, 1-27.	2.5	4
35	Fault detection filtering for nonlinear switched systems via event-triggered communication approach. Automatica, 2019, 101, 365-376.	3.0	122
36	DivORAM: Towards a practical oblivious RAM with variable block size. Information Sciences, 2018, 447, 1-11.	4.0	57

#	ARTICLE	IF	CITATIONS
37	Performance evaluation of implicit smartphones authentication via sensor-behavior analysis. Information Sciences, 2018, 430-431, 538-553.	4.0	55
38	GMM and CNN Hybrid Method for Short Utterance Speaker Recognition. IEEE Transactions on Industrial Informatics, 2018, 14, 3244-3252.	7.2	113
39	Performance Analysis of Multi-Motion Sensor Behavior for Active Smartphone Authentication. IEEE Transactions on Information Forensics and Security, 2018, 13, 48-62.	4.5	137
40	Hand-Interactive Behavior Analysis for User Authentication Systems with Wrist-Worn Devices. , 2018, , .		0
41	Hybrid-Augmented Device Fingerprinting for Intrusion Detection in Industrial Control System Networks. IEEE Wireless Communications, 2018, 25, 26-31.	6.6	54
42	A Co-Evolutionary Model for Inferring Online Social Network User Behaviors. , 2018, , .		2
43	Adaptive Human-Machine Interactive Behavior Analysis With Wrist-Worn Devices for Password Inference. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6292-6302.	7.2	2
44	Multi-source Interactive Behavior Analysis for Continuous User Authentication on Smartphones. Lecture Notes in Computer Science, 2018, , 669-677.	1.0	8
45	Dependence Guided Symbolic Execution. IEEE Transactions on Software Engineering, 2017, 43, 252-271.	4.3	33
46	Performance Analysis of Smartphone-Sensor Behavior for Human Activity Recognition. IEEE Access, 2017, 5, 3095-3110.	2.6	219
47	Performance evaluation of anomaly-detection algorithm for keystroke-typing based insider detection. , 2017, , .		1
48	Passive fingerprinting for wireless devices: A multi-level decision approach. , 2017, , .		0
49	Modeling interactive sensor-behavior with smartphones for implicit and active user authentication. , 2017, , .		4
50	A feasible graph partition framework for parallel computing of big graph. Knowledge-Based Systems, 2017, 134, 228-239.	4.0	16
51	On Using Wearable Devices to Steal Your Passwords: A Fuzzy Inference Approach. Lecture Notes in Computer Science, 2017, , 494-502.	1.0	0
52	Handwaving Authentication: Unlocking Your Smartwatch Through Handwaving Biometrics. Lecture Notes in Computer Science, 2017, , 545-553.	1.0	5
53	Big-data analysis of multi-source logs for anomaly detection on network-based system. , 2017, , .		11
54	Nonlinear adaptive command-filtered backstepping controller design for three-phase grid-connected solar photovoltaic with unknown parameters. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
55	Performance Analysis of Motion-Sensor Behavior for User Authentication on Smartphones. <i>Sensors</i> , 2016, 16, 345.	2.1	46
56	Modeling multimodal biometric modalities for continuous user authentication. , 2016, , .		3
57	Handedness Recognition through Keystroke-Typing Behavior in Computer Forensics Analysis. , 2016, , .		6
58	A human-centered smart home system with wearable-sensor behavior analysis. , 2016, , .		0
59	Motion-senor behavior analysis for continuous authentication on smartphones. , 2016, , .		0
60	On motion-sensor behavior analysis for human-activity recognition via smartphones. , 2016, , .		21
61	User practice in password security: An empirical study of real-life passwords in the wild. <i>Computers and Security</i> , 2016, 61, 130-141.	4.0	51
62	Mouselidentity: Modeling Mouse-Interaction Behavior for a User Verification System. <i>IEEE Transactions on Human-Machine Systems</i> , 2016, 46, 734-748.	2.5	16
63	Performance Analysis of Touch-Interaction Behavior for Active Smartphone Authentication. <i>IEEE Transactions on Information Forensics and Security</i> , 2016, 11, 498-513.	4.5	74
64	SHE: Smart home energy management system based on social and motion behavior cognition. , 2015, , .		10
65	Touch-interaction behavior for continuous user authentication on smartphones. , 2015, , .		17
66	On motion sensors as source for user input inference in smartphones. , 2015, , .		5
67	Input extraction via motion-sensor behavior analysis on smartphones. <i>Computers and Security</i> , 2015, 53, 143-155.	4.0	29
68	Abnormal traffic-indexed state estimation: A cyberâ€‘physical fusion approach for Smart Grid attack detection. <i>Future Generation Computer Systems</i> , 2015, 49, 94-103.	4.9	77
69	Directed test suite augmentation via exploiting program dependency. , 2014, , .		1
70	Extended Distributed State Estimation: A Detection Method against Tolerable False Data Injection Attacks in Smart Grids. <i>Energies</i> , 2014, 7, 1517-1538.	1.6	71
71	Mitigating Behavioral Variability for Mouse Dynamics: A Dimensionality-Reduction-Based Approach. <i>IEEE Transactions on Human-Machine Systems</i> , 2014, 44, 244-255.	2.5	22
72	On User Interaction Behavior as Evidence for Computer Forensic Analysis. <i>Lecture Notes in Computer Science</i> , 2014, , 221-231.	1.0	1

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73	Performance evaluation of anomaly-detection algorithms for mouse dynamics. Computers and Security, 2014, 45, 156-171.	4.0	35
74	User Authentication Through Mouse Dynamics. IEEE Transactions on Information Forensics and Security, 2013, 8, 16-30.	4.5	128
75	Mobile Authentication through Touch-Behavior Features. Lecture Notes in Computer Science, 2013, , 386-393.	1.0	15
76	A Study of the Consistency in Keystroke Dynamics. Lecture Notes in Computer Science, 2013, , 409-416.	1.0	0
77	On the effectiveness and applicability of mouse dynamics biometric for static authentication: A benchmark study. , 2012, , .		12
78	Continuous authentication for mouse dynamics: A pattern-growth approach. , 2012, , .		72
79	Comparing classification algorithm for mouse dynamics based user identification. , 2012, , .		14
80	A hypo-optimum feature selection strategy for mouse dynamics in continuous identity authentication and monitoring. , 2010, , .		9