

Chao Shen

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,536
citations

201575

27
h-index

214721

47
g-index

80
all docs

80
docs citations

80
times ranked

2415
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Performance Analysis of Smartphone-Sensor Behavior for Human Activity Recognition. IEEE Access, 2017, 5, 3095-3110. | 2.6 | 219 |
| 2 | Multi-Agent Deep Reinforcement Learning for HVAC Control in Commercial Buildings. IEEE Transactions on Smart Grid, 2021, 12, 407-419. | 6.2 | 148 |
| 3 | 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 |
| 4 | A Review of Deep Reinforcement Learning for Smart Building Energy Management. IEEE Internet of Things Journal, 2021, 8, 12046-12063. | 5.5 | 136 |
| 5 | User Authentication Through Mouse Dynamics. IEEE Transactions on Information Forensics and Security, 2013, 8, 16-30. | 4.5 | 128 |
| 6 | Fault detection filtering for nonlinear switched systems via event-triggered communication approach. Automatica, 2019, 101, 365-376. | 3.0 | 122 |
| 7 | Static Output Feedback Control of Switched Nonlinear Systems With Actuator Faults. IEEE Transactions on Fuzzy Systems, 2020, 28, 1600-1609. | 6.5 | 116 |
| 8 | GMM and CNN Hybrid Method for Short Utterance Speaker Recognition. IEEE Transactions on Industrial Informatics, 2018, 14, 3244-3252. | 7.2 | 113 |
| 9 | Abnormal traffic-indexed state estimation: A cyber-physical fusion approach for Smart Grid attack detection. Future Generation Computer Systems, 2015, 49, 94-103. | 4.9 | 77 |
| 10 | Dissipative Filtering for Switched Fuzzy Systems With Missing Measurements. IEEE Transactions on Cybernetics, 2020, 50, 1931-1940. | 6.2 | 76 |
| 11 | Performance Analysis of Touch-Interaction Behavior for Active Smartphone Authentication. IEEE Transactions on Information Forensics and Security, 2016, 11, 498-513. | 4.5 | 74 |
| 12 | Continuous authentication for mouse dynamics: A pattern-growth approach. , 2012, , . | | 72 |
| 13 | Extended Distributed State Estimation: A Detection Method against Tolerable False Data Injection Attacks in Smart Grids. Energies, 2014, 7, 1517-1538. | 1.6 | 71 |
| 14 | DivORAM: Towards a practical oblivious RAM with variable block size. Information Sciences, 2018, 447, 1-11. | 4.0 | 57 |
| 15 | Performance evaluation of implicit smartphones authentication via sensor-behavior analysis. Information Sciences, 2018, 430-431, 538-553. | 4.0 | 55 |
| 16 | Hybrid-Augmented Device Fingerprinting for Intrusion Detection in Industrial Control System Networks. IEEE Wireless Communications, 2018, 25, 26-31. | 6.6 | 54 |
| 17 | User practice in password security: An empirical study of real-life passwords in the wild. Computers and Security, 2016, 61, 130-141. | 4.0 | 51 |
| 18 | Performance Analysis of Motion-Sensor Behavior for User Authentication on Smartphones. Sensors, 2016, 16, 345. | 2.1 | 46 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | 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 |
| 20 | False data injection attacks against smart grid state estimation: Construction, detection and defense. Science China Technological Sciences, 2019, 62, 2077-2087. | 2.0 | 43 |
| 21 | Deep Learning on Mobile and Embedded Devices. ACM Computing Surveys, 2021, 53, 1-37. | 16.1 | 43 |
| 22 | Shielding Collaborative Learning: Mitigating Poisoning Attacks through Client-Side Detection. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1. | 3.7 | 36 |
| 23 | Performance evaluation of anomaly-detection algorithms for mouse dynamics. Computers and Security, 2014, 45, 156-171. | 4.0 | 35 |
| 24 | Black-box Adversarial Attacks on Commercial Speech Platforms with Minimal Information. , 2021, , . | | 35 |
| 25 | Dependence Guided Symbolic Execution. IEEE Transactions on Software Engineering, 2017, 43, 252-271. | 4.3 | 33 |
| 26 | 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 |
| 27 | Towards Query-Efficient Adversarial Attacks Against Automatic Speech Recognition Systems. IEEE Transactions on Information Forensics and Security, 2021, 16, 896-908. | 4.5 | 33 |
| 28 | SEAR: Secure and Efficient Aggregation for Byzantine-Robust Federated Learning. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 3329-3342. | 3.7 | 30 |
| 29 | Input extraction via motion-sensor behavior analysis on smartphones. Computers and Security, 2015, 53, 143-155. | 4.0 | 29 |
| 30 | 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 |
| 31 | Mitigating Behavioral Variability for Mouse Dynamics: A Dimensionality-Reduction-Based Approach. IEEE Transactions on Human-Machine Systems, 2014, 44, 244-255. | 2.5 | 22 |
| 32 | On motion-sensor behavior analysis for human-activity recognition via smartphones. , 2016, , . | | 21 |
| 33 | 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 |
| 34 | Network-Wide Forwarding Anomaly Detection and Localization in Software Defined Networks. IEEE/ACM Transactions on Networking, 2021, 29, 332-345. | 2.6 | 18 |
| 35 | 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 |
| 36 | Touch-interaction behavior for continuous user authentication on smartphones. , 2015, , . | | 17 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | Mouselidentity: Modeling Mouse-Interaction Behavior for a User Verification System. IEEE Transactions on Human-Machine Systems, 2016, 46, 734-748. | 2.5 | 16 |
| 38 | A feasible graph partition framework for parallel computing of big graph. Knowledge-Based Systems, 2017, 134, 228-239. | 4.0 | 16 |
| 39 | AUTOTRAINER: An Automatic DNN Training Problem Detection and Repair System. , 2021, , . | | 16 |
| 40 | A fast and scalable authentication scheme in IOT for smart living. Future Generation Computer Systems, 2021, 117, 125-137. | 4.9 | 15 |
| 41 | Mobile Authentication through Touch-Behavior Features. Lecture Notes in Computer Science, 2013, , 386-393. | 1.0 | 15 |
| 42 | Comparing classification algorithm for mouse dynamics based user identification. , 2012, , . | | 14 |
| 43 | 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 |
| 44 | An Automated Multi-Tab Website Fingerprinting Attack. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 3656-3670. | 3.7 | 14 |
| 45 | On the effectiveness and applicability of mouse dynamics biometric for static authentication: A benchmark study. , 2012, , . | | 12 |
| 46 | Big-data analysis of multi-source logs for anomaly detection on network-based system. , 2017, , . | | 11 |
| 47 | Building In-the-Cloud Network Functions: Security and Privacy Challenges. Proceedings of the IEEE, 2021, 109, 1888-1919. | 16.4 | 11 |
| 48 | SHE: Smart home energy management system based on social and motion behavior cognition. , 2015, , . | | 10 |
| 49 | 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 |
| 50 | A hypo-optimum feature selection strategy for mouse dynamics in continuous identity authentication and monitoring. , 2010, , . | | 9 |
| 51 | Multi-source Interactive Behavior Analysis for Continuous User Authentication on Smartphones. Lecture Notes in Computer Science, 2018, , 669-677. | 1.0 | 8 |
| 52 | Handedness Recognition through Keystroke-Typing Behavior in Computer Forensics Analysis. , 2016, , . | | 6 |
| 53 | On motion sensors as source for user input inference in smartphones. , 2015, , . | | 5 |
| 54 | Handwaving Authentication: Unlocking Your Smartwatch Through Handwaving Biometrics. Lecture Notes in Computer Science, 2017, , 545-553. | 1.0 | 5 |

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|----|--|-----|-----------|
| 55 | Waving Gesture Analysis for User Authentication in the Mobile Environment. IEEE Network, 2020, 34, 57-63. | 4.9 | 5 |
| 56 | Modeling interactive sensor-behavior with smartphones for implicit and active user authentication. , 2017, , . | | 4 |
| 57 | Digger. ACM Transactions on Knowledge Discovery From Data, 2019, 13, 1-27. | 2.5 | 4 |
| 58 | Passive browser identification with multi-scale Convolutional Neural Networks. Neurocomputing, 2020, 378, 238-247. | 3.5 | 4 |
| 59 | Modeling multimodal biometric modalities for continuous user authentication. , 2016, , . | | 3 |
| 60 | Nonlinear adaptive command-filtered backstepping controller design for three-phase grid-connected solar photovoltaic with unknown parameters. , 2017, , . | | 3 |
| 61 | A Co-Evolutionary Model for Inferring Online Social Network User Behaviors. , 2018, , . | | 2 |
| 62 | 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 |
| 63 | 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 |
| 64 | Securing Liveness Detection for Voice Authentication via Pop Noises. IEEE Transactions on Dependable and Secure Computing, 2022, , 1-1. | 3.7 | 2 |
| 65 | 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 |
| 66 | Optimal Operation of a Hydrogen-based Building Multi-Energy System under Uncertainties. , 2021, , . | | 2 |
| 67 | Directed test suite augmentation via exploiting program dependency. , 2014, , . | | 1 |
| 68 | On User Interaction Behavior as Evidence for Computer Forensic Analysis. Lecture Notes in Computer Science, 2014, , 221-231. | 1.0 | 1 |
| 69 | Performance evaluation of anomaly-detection algorithm for keystroke-typing based insider detection. , 2017, , . | | 1 |
| 70 | A Compensation Control Scheme against DoS Attack for Nonlinear Cyber-Physical Systems. , 2019, , . | | 1 |
| 71 | An XGBoost-Based Vulnerability Analysis of Smart Grid Cascading Failures under Topology Attacks. , 2021, , . | | 1 |
| 72 | SoundID: Securing Mobile Two-Factor Authentication via Acoustic Signals. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 1687-1701. | 3.7 | 1 |

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|----|--|-----|-----------|
| 73 | Towards Gradient-based Saliency Consensus Training for Adversarial Robustness. IEEE Transactions on Dependable and Secure Computing, 2024, , 1-13. | 3.7 | 1 |
| 74 | A human-centered smart home system with wearable-sensor behavior analysis. , 2016, , . | | 0 |
| 75 | Motion-senor behavior analysis for continuous authentication on smartphones. , 2016, , . | | 0 |
| 76 | Passive fingerprinting for wireless devices: A multi-level decision approach. , 2017, , . | | 0 |
| 77 | On Using Wearable Devices to Steal Your Passwords: A Fuzzy Inference Approach. Lecture Notes in Computer Science, 2017, , 494-502. | 1.0 | 0 |
| 78 | Hand-Interactive Behavior Analysis for User Authentication Systems with Wrist-Worn Devices. , 2018, , . | | 0 |
| 79 | Event-Triggered Output Feedback Control of Takagi-Sugeno Fuzzy Systems. , 2019, , . | | 0 |
| 80 | A Study of the Consistency in Keystroke Dynamics. Lecture Notes in Computer Science, 2013, , 409-416. | 1.0 | 0 |