

Farshad Khorrami

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,781
citations

201674

27
h-index

206112

48
g-index

102
all docs

102
docs citations

102
times ranked

1248
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Towards a New Thermal Monitoring Based Framework for Embedded CPS Device Security. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 524-536. | 5.4 | 15 |
| 2 | Overriding Autonomous Driving Systems Using Adaptive Adversarial Billboards. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11386-11396. | 8.0 | 5 |
| 3 | A Feature-Based On-Line Detector to Remove Adversarial-Backdoors by Iterative Demarcation. IEEE Access, 2022, 10, 5545-5558. | 4.2 | 6 |
| 4 | Trojan Detection in Embedded Systems With FinFET Technology. IEEE Transactions on Computers, 2022, 71, 3061-3071. | 3.4 | 4 |
| 5 | HPC-Based Malware Detectors Actually Work: Transition to Practice After a Decade of Research. IEEE Design and Test, 2022, 39, 23-32. | 1.2 | 1 |
| 6 | Detecting Hardware Trojans in PCBs Using Side Channel Loopbacks. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, 30, 926-937. | 3.1 | 9 |
| 7 | Adaptive output feedback stabilization in prescribed time for nonlinear systems with unknown parameters coupled with unmeasured states. International Journal of Adaptive Control and Signal Processing, 2021, 35, 184-202. | 4.1 | 38 |
| 8 | Special Session: Machine Learning for Semiconductor Test and Reliability. , 2021, , . | | 6 |
| 9 | State Constrained Stochastic Optimal Control Using LSTMs. , 2021, , . | | 6 |
| 10 | Machine Learning for NetFlow Anomaly Detection With Human-Readable Annotations. IEEE Transactions on Network and Service Management, 2021, 18, 1885-1898. | 4.9 | 9 |
| 11 | Overriding Learning-based Perception Systems for Control of Autonomous Unmanned Aerial Vehicles. , 2021, , . | | 2 |
| 12 | An approximate factorization approach to multi-jammer location and range estimation from peer-to-peer connectivity measurements. Computer Networks, 2021, 196, 108268. | 5.1 | 0 |
| 13 | Resilient redundancy-based control of cyber-physical systems through adaptive randomized switching. Systems and Control Letters, 2021, 158, 105066. | 2.3 | 4 |
| 14 | Robust adaptive prescribed-time stabilization via output feedback for uncertain nonlinear strict-feedback-like systems. European Journal of Control, 2020, 55, 14-23. | 2.6 | 42 |
| 15 | Anomaly Detection in Real-Time Multi-Threaded Processes Using Hardware Performance Counters. IEEE Transactions on Information Forensics and Security, 2020, 15, 666-680. | 6.9 | 44 |
| 16 | A Theoretical Study of Hardware Performance Counters-Based Malware Detection. IEEE Transactions on Information Forensics and Security, 2020, 15, 512-525. | 6.9 | 40 |
| 17 | UAV-deployment for city-wide area coverage and computation of optimal response trajectories. , 2020, , . | | 3 |
| 18 | Adaptive Control Approaches for an Unmanned Aerial Manipulation System. , 2020, , . | | 15 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | Aerial Worker for Skyscraper Fire Fighting using a Water-Jetpack Inspired Approach. , 2020, , . | | 7 |
| 20 | Learning-Based Real-Time Process-Aware Anomaly Monitoring for Assured Autonomy. IEEE Transactions on Intelligent Vehicles, 2020, 5, 659-669. | 12.7 | 7 |
| 21 | Exposing Hardware Trojans in Embedded Platforms via Short-Term Aging. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 3519-3530. | 2.7 | 9 |
| 22 | Anomaly Detection in Embedded Systems Using Power and Memory Side Channels. , 2020, , . | | 4 |
| 23 | Functional Replicas of Proprietary Three-Axis Attitude Sensors via LSTM Neural Networks. , 2020, , . | | 4 |
| 24 | A dynamic high-gain design for prescribed-time regulation of nonlinear systems. Automatica, 2020, 115, 108860. | 5.0 | 116 |
| 25 | Hardware Trojan Detection Using Controlled Circuit Aging. IEEE Access, 2020, 8, 77415-77434. | 4.2 | 19 |
| 26 | Explaining and Interpreting Machine Learning CAD Decisions: An IC Testing Case Study. , 2020, , . | | 1 |
| 27 | Sliding-Window Temporal Attention Based Deep Learning System for Robust Sensor Modality Fusion for UGV Navigation. IEEE Robotics and Automation Letters, 2019, 4, 4216-4223. | 5.1 | 9 |
| 28 | A deep learning gated architecture for UGV navigation robust to sensor failures. Robotics and Autonomous Systems, 2019, 116, 80-97. | 5.1 | 21 |
| 29 | An Optimal Defense Strategy Against Data Integrity Attacks In Smart Grids. , 2019, , . | | 0 |
| 30 | Adaptive Adversarial Videos on Roadside Billboards: Dynamically Modifying Trajectories of Autonomous Vehicles. , 2019, , . | | 15 |
| 31 | An Approach to Estimate Emissivity For Thermography-based Material Recognition. , 2019, , . | | 0 |
| 32 | Tightly Coupled Semantic RGB-D Inertial Odometry for Accurate Long-Term Localization and Mapping. , 2019, , . | | 4 |
| 33 | Stealthy Rootkits in Smart Grid Controllers. , 2019, , . | | 7 |
| 34 | Texture Estimation Using Thermography and Machine Learning. , 2019, , . | | 0 |
| 35 | Estimating Weight of Unknown Objects Using Active Thermography. Robotics, 2019, 8, 92. | 3.5 | 5 |
| 36 | Analysis and Design of Actuationâ€“Sensingâ€“Communication Interconnection Structures Toward Secured/Resilient LTI Closed-Loop Systems. IEEE Transactions on Control of Network Systems, 2019, 6, 667-678. | 3.7 | 11 |

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| 37 | Optimal Sensor Placement for Monitoring of Spatial Networks. IEEE Transactions on Automation Science and Engineering, 2018, 15, 33-44. | 5.2 | 8 |
| 38 | Adversarial Learning-Based On-Line Anomaly Monitoring for Assured Autonomy. , 2018, , . | | 18 |
| 39 | Relative Pose Estimation of Unmanned Aerial Systems. , 2018, , . | | 9 |
| 40 | Resilient power grid state estimation under false data injection attacks. , 2018, , . | | 9 |
| 41 | Process-Aware Covert Channels Using Physical Instrumentation in Cyber-Physical Systems. IEEE Transactions on Information Forensics and Security, 2018, 13, 2761-2771. | 6.9 | 27 |
| 42 | A Distributed Monitoring Approach for Human Interaction with Multi-Robot Systems. , 2017, , . | | 0 |
| 43 | Reducing Operator Workload for Indoor Navigation of Autonomous Robots via Multimodal Sensor Fusion. , 2017, , . | | 4 |
| 44 | TAINT: Tool for Automated INsertion of Trojans. , 2017, , . | | 8 |
| 45 | Process-aware side channel monitoring for embedded control system security. , 2017, , . | | 6 |
| 46 | Emerging (un-)reliability based security threats and mitigations for embedded systems. , 2017, , . | | 17 |
| 47 | A Game Theoretic Approach to Design a Resilient Controller For a Nonlinear Discrete System. IFAC-PapersOnLine, 2017, 50, 387-392. | 0.9 | 6 |
| 48 | Sensor modality fusion with CNNs for UGV autonomous driving in indoor environments. , 2017, , . | | 35 |
| 49 | Global outputâ€feedback control of systems with dynamic nonlinear input uncertainties through singular perturbationâ€based dynamic scaling. International Journal of Adaptive Control and Signal Processing, 2016, 30, 690-714. | 4.1 | 3 |
| 50 | Machine learning-based defense against process-aware attacks on Industrial Control Systems. , 2016, , . | | 48 |
| 51 | Cybersecurity for Control Systems: A Process-Aware Perspective. IEEE Design and Test, 2016, 33, 75-83. | 1.2 | 72 |
| 52 | Decentralized Output-Feedback for Delayed Large-Scale Interconnected Nonlinear Systems via Dynamic High-Gain Scaling. IFAC-PapersOnLine, 2015, 48, 247-252. | 0.9 | 0 |
| 53 | Trunk stabilization of multi-legged robots using on-line learning via a NARX neural network compensator. , 2015, , . | | 1 |
| 54 | A Control Design for Quad Rotor UAVs with Input Unmodeled Dynamics. IFAC-PapersOnLine, 2015, 48, 227-232. | 0.9 | 3 |

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| 55 | Decentralised dynamic high-gain scaling-based output-feedback control of large-scale non-linear interconnected systems with delays. <i>Journal of Control and Decision</i> , 2014, 1, 257-282. | 1.6 | 18 |
| 56 | A Dynamic Scaling Based Control Redesign Procedure for Uncertain Nonlinear Systems with Input Unmodeled Dynamics. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 3708-3713. | 0.4 | 4 |
| 57 | A Singular Perturbation Based Global Dynamic High Gain Scaling Control Design for Systems With Nonlinear Input Uncertainties. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 2686-2692. | 5.7 | 33 |
| 58 | Belief convergence to facilitate cooperative behaviors. , 2012, , . | | 0 |
| 59 | Multi-ordered short-range mover prediction models for tracking and avoidance. , 2012, , . | | 1 |
| 60 | Control Design and Implementation for Sawyer Motors Used in Manufacturing Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2011, 19, 1467-1478. | 5.2 | 9 |
| 61 | Adaptive output-feedback control of a general class of uncertain feedforward systems via a dynamic scaling approach. <i>IET Control Theory and Applications</i> , 2011, 5, 681-692. | 2.1 | 16 |
| 62 | First-Order Short-Range Mover Prediction Model (SRMPM). , 2011, , . | | 2 |
| 63 | Decentralized swarming beliefs of distributed autonomous heterogeneous system. , 2011, , . | | 1 |
| 64 | State-Space Modeling of Proton Exchange Membrane Fuel Cell. <i>IEEE Transactions on Energy Conversion</i> , 2010, 25, 804-813. | 5.2 | 74 |
| 65 | Neural Network Modeling of Proton Exchange Membrane Fuel Cell. <i>IEEE Transactions on Energy Conversion</i> , 2010, 25, 474-483. | 5.2 | 47 |
| 66 | Enhancing Flight Control System Performance Using SDRE Based Controller as an Augmentation Layer. , 2009, , . | | 20 |
| 67 | Robust Force Control of an SRM-Based Electromechanical Brake and Experimental Results. <i>IEEE Transactions on Control Systems Technology</i> , 2009, 17, 1306-1317. | 5.2 | 17 |
| 68 | TriM: An Ultra-Accurate High-Speed Six Degree-of-Freedom Manipulator Using Planar Stepper Motors. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2008, 51, 137-157. | 3.4 | 2 |
| 69 | Dual high-gain-based adaptive output-feedback control for a class of nonlinear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2008, 22, 23-42. | 4.1 | 53 |
| 70 | Feedforward Systems With ISS Appended Dynamics: Adaptive Output-Feedback Stabilization and Disturbance Attenuation. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 405-412. | 5.7 | 77 |
| 71 | An Analysis of the Effects of Closed-Loop Commutation Delay on Stepper Motor Control and Application to Parameter Estimation. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 70-77. | 5.2 | 18 |
| 72 | Decentralized Inventory Control for Large-Scale Reverse Supply Chains: A Computationally Tractable Approach. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2008, 38, 551-561. | 2.9 | 10 |

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| 73 | Novel Double-Parallelogram Motion Constraining Mechanisms for Vibration Isolation Systems. , 2007, , , | | 0 |
| 74 | Generalized State Scaling and Applications to Feedback, Feedforward, and Nontriangular Nonlinear Systems. IEEE Transactions on Automatic Control, 2007, 52, 102-108. | 5.7 | 56 |
| 75 | High-gain output-feedback control for nonlinear systems based on multiple time scaling. Systems and Control Letters, 2007, 56, 7-15. | 2.3 | 60 |
| 76 | GODZILA: A Low-resource Algorithm for Path Planning in Unknown Environments. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 48, 357-373. | 3.4 | 18 |
| 77 | Dynamic High-Gain Scaling: State and Output Feedback With Application to Systems With ISS Appended Dynamics Driven by All States. IEEE Transactions on Automatic Control, 2004, 49, 2219-2239. | 5.7 | 163 |
| 78 | A High-Gain Scaling Technique for Adaptive Output Feedback Control of Feedforward Systems. IEEE Transactions on Automatic Control, 2004, 49, 2286-2292. | 5.7 | 90 |
| 79 | Robust Adaptive Control of Sawyer Motors Without Current Measurements. IEEE/ASME Transactions on Mechatronics, 2004, 9, 689-696. | 5.8 | 21 |
| 80 | Robust adaptive control for non-linear systems in generalized output-feedback canonical form. International Journal of Adaptive Control and Signal Processing, 2003, 17, 285-311. | 4.1 | 39 |
| 81 | Decentralized control and disturbance attenuation for large-scale nonlinear systems in generalized output-feedback canonical form. Automatica, 2003, 39, 1923-1933. | 5.0 | 47 |
| 82 | Global high-gain-based observer and backstepping controller for generalized output-feedback canonical form. IEEE Transactions on Automatic Control, 2003, 48, 2277-2284. | 5.7 | 116 |
| 83 | Robust adaptive voltage-fed permanent magnet step motor control without current measurements. IEEE Transactions on Control Systems Technology, 2003, 11, 415-425. | 5.2 | 37 |
| 84 | Modeling and Adaptive Nonlinear Control of Electric Motors. Power Systems, 2003, , , | 0.5 | 143 |
| 85 | Global output feedback tracking for nonlinear systems in generalized output-feedback canonical form. IEEE Transactions on Automatic Control, 2002, 47, 814-819. | 5.7 | 128 |
| 86 | Nonlinear adaptive control of direct-drive brushless DC motors and applications to robotic manipulators. IEEE/ASME Transactions on Mechatronics, 1999, 4, 71-81. | 5.8 | 53 |
| 87 | Robust adaptive control of variable reluctance stepper motors. IEEE Transactions on Control Systems Technology, 1999, 7, 212-221. | 5.2 | 33 |
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| 89 | <title>New integrated piezoelectric-dielectric microstrip antenna for dual wireless actuation and sensing functions</title>. , 1998, , , | | 4 |
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| 91 | A Wiener-Hopf approach to trade-offs between stability margin and performance in two- and three-degree-of-freedom multivariable control systems. International Journal of Control, 1997, 68, 1337-1366. | 1.9 | 0 |
| 92 | Decentralized adaptive output feedback design for large-scale nonlinear systems. IEEE Transactions on Automatic Control, 1997, 42, 729-735. | 5.7 | 161 |
| 93 | Robust decentralized control of power systems utilizing only swing angle measurements. International Journal of Control, 1997, 66, 581-602. | 1.9 | 40 |
| 94 | Decentralized adaptive control of a class of large-scale interconnected nonlinear systems. IEEE Transactions on Automatic Control, 1997, 42, 136-154. | 5.7 | 229 |
| 95 | Robust adaptive control of permanent magnet stepper motors. , 1997, , . | | 2 |
| 96 | Neural network design with genetic learning for control of a single link flexible manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 1996, 15, 135-151. | 3.4 | 7 |
| 97 | Decentralized control of large-scale power systems with unknown interconnections. International Journal of Control, 1996, 63, 591-608. | 1.9 | 14 |
| 98 | Experimental results on adaptive nonlinear control and input preshaping for multi-link flexible manipulators. Automatica, 1995, 31, 83-97. | 5.0 | 73 |
| 99 | Positioning of unknown flexible payloads for robotic arms using a wrist-mounted force/torque sensor. IEEE Transactions on Control Systems Technology, 1995, 3, 189-201. | 5.2 | 16 |
| 100 | Nonlinear control with endâ€point acceleration feedback for a twoâ€link flexible manipulator: Experimental results. Journal of Field Robotics, 1993, 10, 505-530. | 0.7 | 43 |
| 101 | Fuzzy Neural Network Control for a Single Flexible-Link Manipulator. Journal of Intelligent and Fuzzy Systems, 1993, 1, 319-334. | 1.4 | 5 |
| 102 | Adaptive Nonlinear Control and Input Preshaping for Flexible-Link Manipulators; Control/Robotics Research Laboratory (CRRL). , 1993, , . | | 6 |