

Yi Guo

List of Publications by Year in descending order

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121
papers

2,272
citations

393982

19
h-index

315357

38
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129
all docs

129
docs citations

129
times ranked

1883
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Transductive Learning Models for Accurate Ambulatory Gait Analysis in Elderly Residents of Assisted Living Facilities. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 124-134. | 2.7 | 13 |
| 2 | Mobile Robot Assisted Gait Monitoring and Dynamic Margin of Stability Estimation. IEEE Transactions on Medical Robotics and Bionics, 2022, 4, 460-471. | 2.1 | 4 |
| 3 | Coupled Multiple Dynamic Movement Primitives Generalization for Deformable Object Manipulation. IEEE Robotics and Automation Letters, 2022, 7, 5381-5388. | 3.3 | 5 |
| 4 | New Ideas, Old Tricks [From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2022, 29, 4-4. | 2.2 | 0 |
| 5 | Reinforcement Learning-Based Adaptive Biofeedback Engine for Overground Walking Speed Training. IEEE Robotics and Automation Letters, 2022, 7, 8487-8494. | 3.3 | 4 |
| 6 | Multi-Robot Guided Policy Search for Learning Decentralized Swarm Control. , 2021, 5, 743-748. | | 2 |
| 7 | Going Strong [From the Editor's Desk]. IEEE Robotics and Automation Magazine, 2021, 28, 4-6. | 2.2 | 0 |
| 8 | Robot-Assisted Pedestrian Regulation Based on Deep Reinforcement Learning. IEEE Transactions on Cybernetics, 2020, 50, 1669-1682. | 6.2 | 46 |
| 9 | Pedestrian Flow Optimization to Reduce the Risk of Crowd Disasters Through Human-Robot Interaction. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 298-311. | 3.4 | 7 |
| 10 | Multi-robot formation control: a comparison between model-based and learning-based methods. Journal of Control and Decision, 2020, 7, 90-108. | 0.7 | 12 |
| 11 | Accurate Ambulatory Gait Analysis in Walking and Running Using Machine Learning Models. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 191-202. | 2.7 | 71 |
| 12 | Robot-Assisted and Wearable Sensor-Mediated Autonomous Gait Analysis, 2020, , . | | 6 |
| 13 | Wearable Biofeedback System to Induce Desired Walking Speed in Overground Gait Training. Sensors, 2020, 20, 4002. | 2.1 | 14 |
| 14 | Corrections to "Accurate Ambulatory Gait Analysis in Walking and Running Using Machine Learning Models". IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1046-1046. | 2.7 | 1 |
| 15 | Learning Human Navigation Behavior Using Measured Human Trajectories in Crowded Spaces. , 2020, , . | | 6 |
| 16 | Dynamic Plume Tracking by Cooperative Robots. IEEE/ASME Transactions on Mechatronics, 2019, 24, 609-620. | 3.7 | 32 |
| 17 | Learning Decentralized Control Policies for Multi-Robot Formation. , 2019, , . | | 5 |
| 18 | Leaderless cooperative control of robotic sensor networks for monitoring dynamic pollutant plumes. IET Control Theory and Applications, 2019, 13, 2670-2680. | 1.2 | 3 |

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|----|---|-----|-----------|
| 19 | Distance-based Formation Control of a Three-Robot System. , 2019, , . | | 3 |
| 20 | Optimization of Merging Pedestrian Flows Based on Adaptive Dynamic Programming. , 2019, , . | | 1 |
| 21 | Learning Human-Robot Interaction for Robot-Assisted Pedestrian Flow Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 797-813. | 5.9 | 30 |
| 22 | Discrete-Time Consensus Filters for Average Tracking of Time-Varying Inputs on Directed Switching Graphs. Asian Journal of Control, 2018, 20, 919-934. | 1.9 | 3 |
| 23 | Ocean Plume Tracking with Unmanned Surface Vessels: Algorithms and Experiments. , 2018, , . | | 0 |
| 24 | Learning How Pedestrians Navigate: A Deep Inverse Reinforcement Learning Approach. , 2018, , . | | 42 |
| 25 | Robot-assisted pedestrian flow control of a controlled pedestrian corridor. International Journal of Advanced Robotic Systems, 2018, 15, 172988141881469. | 1.3 | 6 |
| 26 | Pedestrian-Robot Interaction Experiments in an Exit Corridor. , 2018, , . | | 11 |
| 27 | Simulating Fine-Scale Marine Pollution Plumes for Autonomous Robotic Environmental Monitoring. Frontiers in Robotics and AI, 2018, 5, 52. | 2.0 | 1 |
| 28 | Robot-assisted smartphone localization for human indoor tracking. Robotics and Autonomous Systems, 2018, 106, 82-94. | 3.0 | 12 |
| 29 | A learning based approach for social force model parameter estimation. , 2017, , . | | 10 |
| 30 | Robotic experiments to evaluate ocean plume characteristics and structure. , 2017, , . | | 1 |
| 31 | Dynamic pollutant plume front tracking and monitoring by a single mobile robot. , 2017, , . | | 2 |
| 32 | Human Mobility Modeling for Robot-Assisted Evacuation in Complex Indoor Environments. IEEE Transactions on Human-Machine Systems, 2016, 46, 694-707. | 2.5 | 42 |
| 33 | Robot-assisted pedestrian regulation in an exit corridor. , 2016, , . | | 13 |
| 34 | Distributed-parameter Luenberger observer for semi-linear parabolic PDE systems with a mobile pointwise sensor. , 2016, , . | | 3 |
| 35 | Probabilistic human mobility model in indoor environment. , 2016, , . | | 7 |
| 36 | Robotic simulation of dynamic plume tracking by Unmanned Surface Vessels. , 2015, , . | | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Distributed consensus filter on directed switching graphs. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 2019-2040. | 2.1 | 38 |
| 38 | Distributed Multi-Robot Evacuation Incorporating Human Behavior. <i>Asian Journal of Control</i> , 2015, 17, 34-44. | 1.9 | 19 |
| 39 | Distributed Consensus-Based Weight Design for Cooperative Spectrum Sensing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015, 26, 54-64. | 4.0 | 49 |
| 40 | Dynamic consensus estimation of weighted average on directed graphs. <i>International Journal of Systems Science</i> , 2015, 46, 1839-1853. | 3.7 | 17 |
| 41 | Simulating large-scale pedestrian movement using CA and event driven model: Methodology and case study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 437, 304-321. | 1.2 | 28 |
| 42 | Robot-assisted human indoor localization using the Kinect sensor and smartphones. , 2014, , . | | 9 |
| 43 | Distributed estimation and tracking for radio environment mapping. , 2014, , . | | 2 |
| 44 | Discrete-time consensus filters on directed switching graphs. , 2014, , . | | 6 |
| 45 | Backstepping-based synchronisation of uncertain networked Lagrangian systems. <i>International Journal of Systems Science</i> , 2014, 45, 145-158. | 3.7 | 22 |
| 46 | Nonlinear dynamics and synchronization of an array of single mode laser diodes in external cavity subject to current modulation. <i>Optics Communications</i> , 2014, 324, 301-310. | 1.0 | 13 |
| 47 | Accelerating 5G QoE via public-private spectrum sharing. , 2014, 52, 77-85. | | 87 |
| 48 | Multi-robot cooperative control for monitoring and tracking dynamic plumes. , 2014, , . | | 55 |
| 49 | Cooperative Distributed Source Seeking by Multiple Robots: Algorithms and Experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 1810-1820. | 3.7 | 132 |
| 50 | A Case Study on a Capsule Robot in the Gastrointestinal Tract to Teach Robot Programming and Navigation. <i>IEEE Transactions on Education</i> , 2014, 57, 112-121. | 2.0 | 22 |
| 51 | Average consensus with weighting matrix design for quantized communication on directed switching graphs. <i>International Journal of Adaptive Control and Signal Processing</i> , 2013, 27, 519-540. | 2.3 | 9 |
| 52 | Cooperative Control Design for Nanorobots in Drug Delivery. , 2013, , 101-123. | | 4 |
| 53 | Selected Topics in Micro/Nano-robotics for Biomedical Applications. , 2013, , . | | 2 |
| 54 | Capsule Robot in Gastro-Intestinal Tract: A Case Study for Robot Programming and Navigation. , 2013, , 85-99. | | 0 |

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|----|---|-----|-----------|
| 55 | Distributed consensus filter on directed graphs with switching topologies. , 2013, , . | | 5 |
| 56 | Synchronizing coupled semiconductor lasers under general coupling topologies. , 2013, , . | | 2 |
| 57 | Distributed multi-robot evacuation incorporating human behavior. , 2013, , . | | 6 |
| 58 | Oscillatory Tracking Control of a Class of Nonlinear Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, . | 0.9 | 4 |
| 59 | Distributed source seeking by cooperative robots: All-to-all and limited communications. , 2012, , . | | 40 |
| 60 | Robust H ∞ consensus on directed networks with quantized communication. , 2012, , . | | 0 |
| 61 | Minimal persistence control on dynamic directed graphs for multi-robot formation. , 2012, , . | | 2 |
| 62 | Neural-network based AUV path planning in estuary environments. , 2012, , . | | 9 |
| 63 | Synchronization of Coupled Laser Arrays With All-to-All and Limited Coupling Topology. , 2012, , . | | 0 |
| 64 | Collective motion of planar particles and coupled lasers. , 2011, , . | | 1 |
| 65 | Analysis of controlled morse type Frenkel-Kontorova model. , 2011, , . | | 0 |
| 66 | Adaptive backstepping-based synchronization of uncertain networked Lagrangian systems. , 2011, , . | | 3 |
| 67 | Distributed Cooperative Spectrum Sensing Based on Weighted Average Consensus. , 2011, , . | | 14 |
| 68 | Unified control for Pendubot at four equilibrium points. IET Control Theory and Applications, 2011, 5, 155. | 1.2 | 9 |
| 69 | Atomic-scale friction control by vibration using friction force microscope. Control Engineering Practice, 2011, 19, 1387-1397. | 3.2 | 6 |
| 70 | Adaptive output consensus tracking of uncertain multi-agent systems. , 2011, , . | | 15 |
| 71 | Analysis and Control of Two-Layer Frenkel-Kontorova Model. Chinese Physics Letters, 2011, 28, 110204. | 1.3 | 1 |
| 72 | Multiagent flocking with formation in a constrained environment. Journal of Control Theory and Applications, 2010, 8, 151-159. | 0.8 | 18 |

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|----|---|-----|-----------|
| 73 | Graph rigidity control of mobile robot networks. , 2010, , . | | 2 |
| 74 | Robust Consensus Output Tracking of Multi-Agent Systems With Directed Communications. , 2010, , . | | 1 |
| 75 | Robust consensus for uncertain multi-agent systems on directed communication topologies. , 2010, , . | | 21 |
| 76 | Directed motion of an atomic scale engine and stability analysis. , 2010, , . | | 0 |
| 77 | Stability of an AFM-based sliding system. , 2009, , . | | 2 |
| 78 | Synchronization on a segment without localization: algorithm and applications. , 2009, , . | | 5 |
| 79 | Bio-inspired locomotion for a modular snake robot. , 2009, , . | | 1 |
| 80 | Stability of coupled oscillators using Frenkel-Kontorova model. , 2009, , . | | 0 |
| 81 | Control of frictional dynamics of a one-dimensional particle array. Automatica, 2008, 44, 2560-2569. | 3.0 | 21 |
| 82 | Nanotribology and nanoscale friction. IEEE Control Systems, 2008, 28, 92-100. | 1.0 | 13 |
| 83 | A decentralized control for mobile sensor network effective coverage. , 2008, , . | | 5 |
| 84 | Optimal trajectory generation for nonholonomic robots in dynamic environments. , 2008, , . | | 7 |
| 85 | Consensus on scale-free network. , 2008, , . | | 14 |
| 86 | Single particle dynamics and control in a sliding nanocluster system. , 2007, , . | | 1 |
| 87 | Bio-inspired motion planning algorithms for autonomous robots facilitating greater plasticity for security applications. Proceedings of SPIE, 2007, , . | 0.8 | 0 |
| 88 | Global Trajectory Generation for Nonholonomic Robots in Dynamic Environments. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , . | 0.0 | 18 |
| 89 | Formation Control of Nonholonomic Mobile Robots Using Graph Theoretical Methods. , 2007, , 369-386. | | 8 |
| 90 | Collaborative Robots for Infrastructure Security Applications. Studies in Computational Intelligence, 2007, , 185-200. | 0.7 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | A novel LTCC miniaturized dualband balun. IEEE Microwave and Wireless Components Letters, 2006, 16, 143-145. | 2.0 | 29 |
| 92 | Feedback Control of Frictional Dynamics. , 2006, , . | | 1 |
| 93 | Decentralized Coordination Control for Formation Stability of Autonomous Robotic Systems. , 2006, , . | | 0 |
| 94 | Distributed Robot-assisted Node Localization in Active Sensor Networks. , 2006, , . | | 1 |
| 95 | Disturbance Attenuation of Uncertain Nonholonomic Systems in Chained Forms. , 2006, , . | | 0 |
| 96 | Nonlinear Enhancement of Weak Signals Using Optimization Theory. , 2006, , . | | 7 |
| 97 | Lyapunov stability and precise control of the frictional dynamics of a one-dimensional particle array. Physical Review B, 2006, 73, . | 1.1 | 18 |
| 98 | Experimental testbed and distributed algorithm for cooperative driving in VII simulation. , 2006, , . | | 0 |
| 99 | Formation control of nonholonomic mobile robots. , 2006, , . | | 23 |
| 100 | Cooperative Driving based on Inter-vehicle Communications: Experimental Platform and Algorithm. , 2006, , . | | 13 |
| 101 | A power system control scheme based on security visualisation in parameter space. International Journal of Electrical Power and Energy Systems, 2005, 27, 488-495. | 3.3 | 9 |
| 102 | New trajectory generation methods for nonholonomic mobile robots. , 2005, , . | | 8 |
| 103 | Global time-varying stabilization of underactuated surface vessel. IEEE Transactions on Automatic Control, 2005, 50, 859-864. | 3.6 | 133 |
| 104 | Dynamic tracking control of uncertain nonholonomic mobile robots. , 2005, , . | | 7 |
| 105 | Decentralized disturbance attenuation for large-scale nonlinear systems with delayed state interconnections. , 2004, , . | | 4 |
| 106 | A reduced-order analytical solution to mobile robot trajectory generation in the presence of moving obstacles. , 2004, , . | | 0 |
| 107 | H ∞ control for a class of structured time-delay systems. Systems and Control Letters, 2002, 45, 35-47. | 1.3 | 12 |
| 108 | Distributed Heterogeneous Sensing for Outdoor Multi-Robot Localization, Mapping, and Path Planning. , 2002, , 21-30. | | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Global transient stability and voltage regulation for power systems. IEEE Transactions on Power Systems, 2001, 16, 678-688. | 4.6 | 194 |
| 110 | Nonlinear decentralized control of large-scale power systems. Automatica, 2000, 36, 1275-1289. | 3.0 | 282 |
| 111 | Decentralized robust disturbance attenuation for a class of large-scale nonlinear systems. Systems and Control Letters, 1999, 37, 71-85. | 1.3 | 74 |
| 112 | Robust decentralized excitation control of multimachine power systems. , 1999, , . | | 4 |
| 113 | Stabilization and Tracking via Output Feedback for the Nonlinear Benchmark System. Automatica, 1998, 34, 907-915. | 3.0 | 24 |
| 114 | Decentralized Robust Disturbance Attenuation for Large-Scale Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 847-852. | 0.4 | 2 |
| 115 | Global nonlinear control of the ball and beam system. , 0, , . | | 16 |
| 116 | A distributed and optimal motion planning approach for multiple mobile robots. , 0, , . | | 95 |
| 117 | Performance-based rough terrain navigation for nonholonomic mobile robots. , 0, , . | | 16 |
| 118 | Coverage control for a mobile robot patrolling a dynamic and uncertain environment. , 0, , . | | 32 |
| 119 | Nonlinear tracking control of underactuated surface vessel. , 0, , . | | 10 |
| 120 | Stabilization and tracking control of friction dynamics of a one-dimensional nanoarray. , 0, , . | | 4 |
| 121 | Complete coverage control for nonholonomic mobile robots in dynamic environments. , 0, , . | | 20 |