Masayoshi Tomizuka

List of Publications by Year
in descending order

354 papers	10,847 citations	76326 40 h-index	62596 80 g-index
358 all docs	358 docs citations	358 times ranked	4903 citing authors

#	ARTICLE	IF	CITATIONS
1	Track deformable objects from point clouds with structure preserved registration. International Journal of Robotics Research, 2022, 41, 599-614.	8.5	24
2	On Robust Stability and Performance With a Fixed-Order Controller Design for Uncertain Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3453-3465.	9.3	12
3	Practical Fractional-Order Variable-Gain Supertwisting Control With Application to Wafer Stages of Photolithography Systems. IEEE/ASME Transactions on Mechatronics, 2022, 27, 214-224.	5.8	13
4	Spatio-Temporal Graph Dual-Attention Network for Multi-Agent Prediction and Tracking. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10556-10569.	8.0	32
5	Interpretable End-to-End Urban Autonomous Driving With Latent Deep Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 5068-5078.	8.0	77
6	Convex Parameterization and Optimization for Robust Tracking of a Magnetically Levitated Planar Positioning System. IEEE Transactions on Industrial Electronics, 2022, 69, 3798-3809.	7.9	11
7	Labels are Not Perfect: Inferring Spatial Uncertainty in Object Detection. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 9981-9994.	8.0	8
8	From Human Driving to Automated Driving: What Do We Know About Drivers?. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 6189-6205.	8.0	8
9	Long-Term Trajectory Prediction of the Human Hand and Duration Estimation of the Human Action. IEEE Robotics and Automation Letters, 2022, 7, 247-254.	5.1	2
10	SceGene: Bio-Inspired Traffic Scenario Generation for Autonomous Driving Testing. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14859-14874.	8.0	3
11	Guest Editorial Introduction to the Focused Section on Adaptive Learning and Control for Advanced Mechatronics Systems. IEEE/ASME Transactions on Mechatronics, 2022, 27, 607-610.	5.8	2
12	Offline-Online Learning of Deformation Model for Cable Manipulation With Graph Neural Networks. IEEE Robotics and Automation Letters, 2022, 7, 5544-5551.	5.1	19
13	Robotic Cable Routing with Spatial Representation. IEEE Robotics and Automation Letters, 2022, 7, 5687-5694.	5.1	12
14	Design a Multifunctional Soft Tactile Sensor Enhanced by Machine Learning Approaches. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, .	1.6	6
15	Hierarchical Planning Through Goal-Conditioned Offline Reinforcement Learning. IEEE Robotics and Automation Letters, 2022, 7, 10216-10223.	5.1	3
16	Efficient Game-Theoretic Planning With Prediction Heuristic for Socially-Compliant Autonomous Driving. IEEE Robotics and Automation Letters, 2022, 7, 10248-10255.	5.1	4
17	Cross Domain Robot Imitation with Invariant Representation. , 2022, , .		3
18	Learning Insertion Primitives with Discrete-Continuous Hybrid Action Space for Robotic Assembly Tasks. , 2022, , .		8

#	Article	IF	Citations
19	Autonomous Vehicle Parking in Dynamic Environments: An Integrated System with Prediction and Motion Planning. , 2022, , .		2
20	Causal-based Time Series Domain Generalization for Vehicle Intention Prediction. , 2022, , .		13
21	Important Object Identification with Semi-Supervised Learning for Autonomous Driving. , 2022, , .		2
22	Safety Assurances for Human-Robot Interaction via Confidence-aware Game-theoretic Human Models. , 2022, , .		13
23	Grouptron: Dynamic Multi-Scale Graph Convolutional Networks for Group-Aware Dense Crowd Trajectory Forecasting. , 2022, , .		4
24	Real-Time Iterative Compensation Framework for Precision Mechatronic Motion Control Systems. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1218-1232.	13.1	7
25	Neural-Network-Based Iterative Learning Control for Multiple Tasks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4178-4190.	11.3	25
26	Enable faster and smoother spatio-temporal trajectory planning for autonomous vehicles in constrained dynamic environment. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 1101-1112.	1.9	24
27	Simplified Realization of Zero Phase Error Tracking. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	1.6	6
28	Autonomous Ground Vehicle Lane-Keeping LPV Model-Based Control: Dual-Rate State Estimation and Comparison of Different Real-Time Control Strategies. Sensors, 2021, 21, 1531.	3.8	22
29	IDE-Net: Interactive Driving Event and Pattern Extraction From Human Data. IEEE Robotics and Automation Letters, 2021, 6, 3065-3072.	5.1	11
30	Human-Aware Robot Task Planning Based on a Hierarchical Task Model. IEEE Robotics and Automation Letters, 2021, 6, 1136-1143.	5.1	20
31	Socially-Compatible Behavior Design of Autonomous Vehicles With Verification on Real Human Data. IEEE Robotics and Automation Letters, 2021, 6, 3421-3428.	5.1	18
32	Learning Variable Impedance Control via Inverse Reinforcement Learning for Force-Related Tasks. IEEE Robotics and Automation Letters, 2021, 6, 2225-2232.	5.1	40
33	Feedback-based Digital Higher-order Terminal Sliding Mode for 6-DOF Industrial Manipulators. , 2021, , .		3
34	Online Learning of Unknown Dynamics for Model-Based Controllers in Legged Locomotion. IEEE Robotics and Automation Letters, 2021, 6, 8442-8449.	5.1	14
35	Continual Multi-Agent Interaction Behavior Prediction With Conditional Generative Memory. IEEE Robotics and Automation Letters, 2021, 6, 8410-8417.	5.1	17
36	Learning Dense Rewards for Contact-Rich Manipulation Tasks. , 2021, , .		8

#	ARTICLE	IF	CITATIONS
37	Trajectory Optimization for Manipulation of Deformable Objects: Assembly of Belt Drive Units. , 2021, , .		14
38	Optimal Decentralized Control for Uncertain Systems by Symmetric Gauss–Seidel Semi-Proximal ALM. IEEE Transactions on Automatic Control, 2021, 66, 5554-5560.	5.7	25
39	Trajectory Splitting: A Distributed Formulation for Collision Avoiding Trajectory Optimization. , 2021, , .		7
40	Learning Human Rewards by Inferring Their Latent Intelligence Levels in Multi-Agent Games: A Theory-of-Mind Approach with Application to Driving Data. , 2021, , .		2
41	RAIN: Reinforced Hybrid Attention Inference Network for Motion Forecasting. , 2021, , .		21
42	H∞ Control Using Linear Parameter Varying Approach for Motion Control Systems Under Communication Delays: Application to PMSM. Journal of Electrical Engineering and Technology, 2020, 15, 1797-1809.	2.0	1
43	Generic Tracking and Probabilistic Prediction Framework and Its Application in Autonomous Driving. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 3634-3649.	8.0	29
44	Efficient Sampling-Based Maximum Entropy Inverse Reinforcement Learning With Application to Autonomous Driving. IEEE Robotics and Automation Letters, 2020, 5, 5355-5362.	5.1	61
45	Precise Linear-Motor Synchronization Control Via Cross-Coupled Second-Order Discrete-Time Fractional-Order Sliding Mode. IEEE/ASME Transactions on Mechatronics, 2020, , 1-1.	5.8	30
46	Safe and Coordinated Hierarchical Receding Horizon Control for Mobile Manipulators. , 2020, , .		2
47	Experimental Evaluation of Human Motion Prediction Toward Safe and Efficient Human Robot Collaboration. , 2020, , .		5
48	Data-Driven Multiobjective Controller Optimization for a Magnetically Levitated Nanopositioning System. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1961-1970.	5.8	32
49	Towards Efficient Human-Robot Collaboration With Robust Plan Recognition and Trajectory Prediction. IEEE Robotics and Automation Letters, 2020, 5, 2602-2609.	5.1	48
50	Nonlinear Control With High-Gain Extended State Observer for Position Tracking of Electro-Hydraulic Systems. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2610-2621.	5.8	45
51	Design of a New Compact Velocity-Based Mechanical Safety Device for a Knee Joint Assist Suit. , 2020, , .		0
52	A Review of Manufacturing Process Control. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	14
53	Development of a new compact and light velocity-based mechanical safety device for a rehabilitation assist suit. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2020, 14, JAMDSM0101-JAMDSM0101.	0.7	0
54	Fractional-Order Variable-Gain Super-Twisting Control With Application to Wafer Stages of Photolithography Systems. , 2020, , .		2

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55	Expressing Diverse Human Driving Behavior with Probabilistic Rewards and Online Inference. , 2020, , .		5
56	Learning-Based Controller Optimization for Repetitive Robotic Tasks. , 2020, , .		0
57	Adaptive Probabilistic Vehicle Trajectory Prediction Through Physically Feasible Bayesian Recurrent Neural Network. , 2019, , .		11
58	Efficient Grasp Planning and Execution With Multifingered Hands by Surface Fitting. IEEE Robotics and Automation Letters, 2019, 4, 3995-4002.	5.1	13
59	A Remote Control Strategy for an Autonomous Vehicle with Slow Sensor Using Kalman Filtering and Dual-Rate Control. Sensors, 2019, 19, 2983.	3.8	12
60	Reference Modulation for Performance Enhancement of Motion Control Systems With Nonlinear Parameter Variations. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2040-2051.	5.8	9
61	Interaction-aware Multi-agent Tracking and Probabilistic Behavior Prediction via Adversarial Learning. , 2019, , .		34
62	Coordination and Trajectory Prediction for Vehicle Interactions via Bayesian Generative Modeling. , 2019, , .		17
63	Behavior Planning of Autonomous Cars with Social Perception. , 2019, , .		30
64	Wasserstein Generative Learning with Kinematic Constraints for Probabilistic Interactive Driving Behavior Prediction. , 2019, , .		22
65	Multi-modal Probabilistic Prediction of Interactive Behavior via an Interpretable Model. , 2019, , .		27
66	A Semi-Active Control Method for Pneumatic Actuators with Evolutionary Algorithm. , 2019, , .		0
67	optimization Model for Planning Precision Grasps with Multi-Fingered Hands. , 2019, , .		7
68	Precise Correntropy-based 3D Object Modelling With Geometrical Traffic Prior. , 2019, , .		1
69	Robust Deformation Model Approximation for Robotic Cable Manipulation. , 2019, , .		24
70	Deep Imitation Learning for Autonomous Driving in Generic Urban Scenarios with Enhanced Safety. , 2019, , .		73
71	Conditional Generative Neural System for Probabilistic Trajectory Prediction. , 2019, , .		91
72	The Experimental Realization of an Artificial Low-Reynolds-Number Swimmer with Three-Dimensional Maneuverability. , 2019, , .		6

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73	Constructing a Highly Interactive Vehicle Motion Dataset. , 2019, , .		14
74	Human Motion Prediction using Semi-adaptable Neural Networks. , 2019, , .		35
75	Interaction-aware Decision Making with Adaptive Strategies under Merging Scenarios. , 2019, , .		32
76	Prediction of Human Arm Target for Robot Reaching Movements. , 2019, , .		15
77	Model-free Deep Reinforcement Learning for Urban Autonomous Driving. , 2019, , .		146
78	Energy-Efficient Control for an Unmanned Ground Vehicle in a Wireless Sensor Network. Journal of Sensors, 2019, 2019, 1-16.	1.1	6
79	Active/Passive Switching Control Framework for Assistive Devices with Variable Stiffness Actuator. , 2019, , .		1
80	Interpretable Modelling of Driving Behaviors in Interactive Driving Scenarios based on Cumulative Prospect Theory. , 2019, , .		20
81	Interactive Prediction for Multiple, Heterogeneous Traffic Participants with Multi-Agent Hybrid Dynamic Bayesian Network. , 2019, , .		12
82	Generic Prediction Architecture Considering both Rational and Irrational Driving Behaviors. , 2019, , .		14
83	A Position-Based Friction Error Model and Its Application to Parameter Identification. IEEE Access, 2019, 7, 7759-7767.	4.2	3
84	A frequency-shaping methodology for discrete-time sliding mode control. International Journal of Control, 2019, 92, 1662-1671.	1.9	6
85	Development of a knee joint assist suit with a velocity-based mechanical safety device (Transient) Tj ETQq1 1 0.784314 rgBT /Overlo 19-00146-19-00146.	0.2	1
86	Bayesian Persuasive Driving. , 2019, , .		6
87	Distributed Conflict Resolution for Connected Autonomous Vehicles. IEEE Transactions on Intelligent Vehicles, 2018, 3, 18-29.	12.7	87
88	A Double Disturbance Observer Design for Compensation of Unknown Time Delay in a Wireless Motion Control System. IEEE Transactions on Control Systems Technology, 2018, 26, 675-683.	5.2	16
89	Discrete-time nonlinear damping backstepping control with observers for rejection of low and high frequency disturbances. Mechanical Systems and Signal Processing, 2018, 104, 436-448.	8.0	19
90	A Framework for Robot Grasp Transferring with Non-rigid Transformation. , 2018, , .		2

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91	Efficient Trajectory Optimization for Robot Motion Planning. , 2018, , .		17
92	Real-Time Grasp Planning for Multi-Fingered Hands by Finger Splitting. , 2018, , .		13
93	Probabilistic Prediction of Interactive Driving Behavior via Hierarchical Inverse Reinforcement Learning. , 2018, , .		74
94	Generic Probabilistic Interactive Situation Recognition and Prediction: From Virtual to Real. , 2018, , .		22
95	Concurrent Design of Feedforward and Feedback Controller for Building Thermal System. , 2018, , .		2
96	Towards a Fatality-Aware Benchmark of Probabilistic Reaction Prediction in Highly Interactive Driving Scenarios. , 2018, , .		15
97	Courteous Autonomous Cars. , 2018, , .		46
98	Grasp Planning for Customized Grippers by Iterative Surface Fitting. , 2018, , .		11
99	Probabilistic Prediction of Vehicle Semantic Intention and Motion. , 2018, , .		93
100	Continuous Decision Making for On-road Autonomous Driving under Uncertain and Interactive Environments. , 2018, , .		15
101	Generic Vehicle Tracking Framework Capable of Handling Occlusions Based on Modified Mixture Particle Filter. , 2018, , .		22
102	Cooperative Driving Based on Negotiation with Persuasion and Concession. , 2018, , .		2
103	Development of a knee joint assist suit with a velocity-based mechanical safety device (Frequency) Tj ETQq1 1 0.784314 rgBT /Overlock 18-00314-18-00314.	0.2	3
104	Development of an ankle joint assist suit with a velocity-based safety device (Detailed design). Journal of Advanced Science, 2018, 30, n/a.	0.1	1
105	Characterization of Active/Passive Pneumatic Actuators for Assistive Devices. , 2018, , .		6
106	A Framework for Probabilistic Generic Traffic Scene Prediction. , 2018, , .		23
107	Zero-shot Deep Reinforcement Learning Driving Policy Transfer for Autonomous Vehicles based on Robust Control. , 2018, , .		18
108	Deep Hierarchical Reinforcement Learning for Autonomous Driving with Distinct Behaviors. , 2018, , .		28

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109	A Fast Integrated Planning and Control Framework for Autonomous Driving via Imitation Learning. , 2018, , .		43
110	Fusing Bird's Eye View LIDAR Point Cloud and Front View Camera Image for 3D Object Detection. , 2018, , .		28
111	Optimal Control Parameterization for ActivelPassive EXoskeleton with Variable Impedance Actuator. , 2018, , .		2
112	Robust Passivity and Passivity Relaxation for Impedance Control of Flexible-Joint Robots with Inner-Loop Torque Control. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2671-2680.	5.8	26
113	Non-uniform Multi-rate Estimator based Periodic Event-Triggered Control for resource saving. Information Sciences, 2018, 459, 86-102.	6.9	13
114	A Framework for Manipulating Deformable Linear Objects by Coherent Point Drift. IEEE Robotics and Automation Letters, 2018, 3, 3426-3433.	5.1	43
115	Synthesized Disturbance Observer for Vehicle Lateral Disturbance Rejection. , 2018, , .		4
116	Reference Modulation for Performance Enhancement in Motion Control Systems. , 2018, , .		1
117	Improving Efficiency of Autonomous Vehicles by V2V Communication. , 2018, , .		10
118	Optimal preview control for a linear continuous-time stochastic control system in finite-time horizon. International Journal of Systems Science, 2017, 48, 129-137.	5.5	52
119	High-Gain-Observer-Based Integral Sliding Mode Control for Position Tracking of Electrohydraulic Servo Systems. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2695-2704.	5.8	76
120	Real-Time Finger Gaits Planning for Dexterous Manipulation * *This project was supported by FANUC Corporation. IFAC-PapersOnLine, 2017, 50, 12765-12772.	0.9	11
121	Design of arbitrary-order robust iterative learning control based on robust control theory. Mechatronics, 2017, 47, 67-76.	3.3	18
122	Spatially-partitioned environmental representation and planning architecture for on-road autonomous driving. , 2017, , .		48
123	Speed profile planning in dynamic environments via temporal optimization. , 2017, , .		40
124	A design methodology for disturbance observer with application to precision motion control: An H-infinity based approach. , 2017, , .		17
125	Convex feasible set algorithm for constrained trajectory smoothing. , 2017, , .		27
126	State estimation for deformable objects by point registration and dynamic simulation. , 2017, , .		25

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127	Robust dexterous manipulation under object dynamics uncertainties. , 2017, , .		11
128	Distributed and cooperative optimization-based iterative learning control for large-scale building temperature regulation. , 2017, , .		7
129	Constrained iterative LQR for on-road autonomous driving motion planning. , 2017, , .		45
130	Boundary layer heuristic for search-based nonholonomic path planning in maze-like environments. , 2017, , .		2
131	Real-time collision avoidance algorithm on industrial manipulators. , 2017, , .		20
132	Development of a knee joint assist suit with hardware-based safety devices (Proposal and design of the) Tj ETQq0 0 0 rgBT /Overlock 10	0.2	4
133	Safe and feasible motion generation for autonomous driving via constrained policy net. , 2017, , .		11
134	Real-time robust finger gaits planning under object shape and dynamics uncertainties. , 2017, , .		8
135	A guided search framework in multiple model control. , 2017, , .		2
136	Development of an ankle joint assist suit with hardware-based safety devices (Design using quality) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	0
137	Enabling safe freeway driving for automated vehicles. , 2016, , .		30
138	Multirate iterative learning control for enhanced motion performance with application to wafer scanner systems. , 2016, , .		1
139	Discrete-Time H-Infinity Synthesis of Frequency-Shaped Sliding Mode Control for Suppression of Vibration With Multiple Peak Frequencies. , 2016, , .		2
140	Learning control for task specific industrial robots. , 2016, , .		0
141	Human guidance programming on a 6-DoF robot with collision avoidance. , 2016, , .		13
142	Robotic manipulation of deformable objects by tangent space mapping and non-rigid registration. , 2016, , .		14
143	Autonomous alignment of peg and hole by force/torque measurement for robotic assembly. , 2016, , .		51
144	Robust impedance control with applications to a series-elastic actuated system. , 2016, , .		9

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145	Multi-rate Observer Based Sliding Mode Control with Frequency Shaping for Vibration Suppression Beyond Nyquist Frequency**This work was sponsored by Western Digital Corporation.. IFAC-PapersOnLine, 2016, 49, 13-18.	0.9	19
146	Extended state observer with phase compensation to estimate and suppress high-frequency disturbances. , 2016, , .		11
147	Zero time delay input shaping for smooth settling of industrial robots. , 2016, , .		6
148	Design of a Passive Upper Limb Exoskeleton for Macaque Monkeys. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	4
149	A non-conservatively defensive strategy for urban autonomous driving. , 2016, , .		60
150	Control-oriented model of a turbocharged engine airpath with discrete-time considerations. , 2016, , .		1
151	Teach industrial robots peg-hole-insertion by human demonstration. , 2016, , .		43
152	Optimization-based constrained iterative learning control with application to building temperature control systems. , 2016, , .		11
153	Enhanced anti-windup compensation for the dual stage hard disk drive systems with amplitude saturation. , 2016, , .		0
154	Path-constrained trajectory planning for robot service life optimization. , 2016, , .		1
155	Motion control of series-elastic actuators. , 2016, , .		6
156	Iterative design of feedback and feedforward controller with input saturation constraint for building temperature control. , 2016, , .		13
157	Enhanced wide-spectrum vibration suppression based on adaptive loop shaping. , 2016, , .		3
158	Discrete-Time Reduced-Complexity Youla Parameterization for Dual-Input Single-Output Systems. IEEE Transactions on Control Systems Technology, 2016, 24, 302-309.	5.2	11
159	Discrete-time output feedback nonlinear control for combined low-and high-frequency disturbance compensation. , 2015, , .		0
160	A robot suit with hardware-based safety devices: Transient response analysis of a velocity-based safety device. , 2015, , .		0
161	Probabilistic Approach to Modeling and Parameter Learning of Indirect Drive Robots From Incomplete Data. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1036-1045.	5.8	3
162	Approximate nonlinear model predictive control of a gasoline engine with EGR. , 2015, , .		1

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163	Controller design and optimal tuning of a wafer handling robot. , 2015, , .		0
164	Introduction and initial exploration of an Active/Passive Exoskeleton framework for portable assistance. , 2015, , .		14
165	Robust principal component analysis for iterative learning control of precision motion systems with non-repetitive disturbances. , 2015, , .		12
166	Robust time delay compensation in a wireless motion control system with double disturbance observers. , 2015, , .		9
167	Statistical Learning Algorithms to Compensate Slow Visual Feedback for Industrial Robots. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	20
168	Dual-Stage Adaptive Friction Compensation for Precise Load Side Position Tracking of Indirect Drive Mechanisms. IEEE Transactions on Control Systems Technology, 2015, 23, 164-175.	5.2	23
169	A novel integrated chassis controller for full drive-by-wire vehicles. Vehicle System Dynamics, 2015, 53, 215-236.	3.7	75
170	Overview and new results in disturbance observer based adaptive vibration rejection with application to advanced manufacturing. International Journal of Adaptive Control and Signal Processing, 2015, 29, 1459-1474.	4.1	34
171	Clinical impact of gait training enhanced with visual kinematic biofeedback: Patients with Parkinson's disease and patients stable post stroke. Neuropsychologia, 2015, 79, 332-343.	1.6	55
172	Preview control for impulse-free continuous-time descriptor systems. International Journal of Control, 2015, 88, 1142-1149.	1.9	29
173	Design and torque-mode control of a cable-driven rotary series elastic actuator for subject-robot interaction. , 2015, , .		17
174	A robot suit with hardware-based safety devices: Frequency response analysis of a velocity-based safety device. , 2015, , .		1
175	Modified Preview Control for a Wireless Tracking Control System With Packet Loss. IEEE/ASME Transactions on Mechatronics, 2015, 20, 299-307.	5.8	45
176	Flatness-Based Nonlinear Control for Position Tracking of Electrohydraulic Systems. IEEE/ASME Transactions on Mechatronics, 2015, 20, 197-206.	5.8	68
177	Development of a rehabilitation robot suit with velocity and torque-based mechanical safety devices. , 2014, , .		3
178	A guidance robot for the visually impaired: System description and velocity reference generation. , 2014, , .		3
179	An Overview on Study of Identification of Driver Behavior Characteristics for Automotive Control. Mathematical Problems in Engineering, 2014, 2014, 1-15.	1.1	69
180	Feedforward Input Generation Based on Neural Network Prediction in Multi-Joint Robots1. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	4

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181	Ensuring safety in human-robot coexistence environment. , 2014, , .		22
182	Design of a neural decoder by sensory prediction and error correction. , 2014, , .		0
183	Kinematic design and analysis for a macaque upper-limb exoskeleton with shoulder joint alignment. , 2014, , .		1
184	An improved delay-dependent stability criterion for linear uncertain systems with multiple time-varying delays. International Journal of Control, 2014, 87, 861-873.	1.9	17
185	Design of kinematic controller for real-time vision guided robot manipulators. , 2014, , .		4
186	Improving Control Performance by Minimizing Jitter in RT-WiFi Networks. , 2014, , .		21
187	Fast planning of well conditioned trajectories for model learning. , 2014, , .		11
188	Direct Joint Space State Estimation in Robots With Multiple Elastic Joints. IEEE/ASME Transactions on Mechatronics, 2014, 19, 697-706.	5.8	20
189	Optimal Decoupled Disturbance Observers for Dual-Input Single-Output Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	15
190	Dual-Stage Iterative Learning Control for MIMO Mismatched System With Application to Robots With Joint Elasticity. IEEE Transactions on Control Systems Technology, 2014, 22, 1350-1361.	5.2	50
191	Nonlinear Controller With the Dead-Zone and Saturation for Optical Disk Drive Systems in the Presence of External Shocks. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1458-1463.	5.8	5
192	New Repetitive Control With Improved Steady-State Performance and Accelerated Transient. IEEE Transactions on Control Systems Technology, 2014, 22, 664-675.	5.2	94
193	A terminal sliding mode based torque distribution control for an individual-wheel-drive vehicle. Journal of Zhejiang University: Science A, 2014, 15, 681-693.	2.4	22
194	Discrete-time Frequency-shaped Sliding Mode Control for Audio-vibration Rejection in Hard Disk Drives. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6843-6848.	0.4	4
195	Real-time nonlinear programming by amplitude modulation. International Journal of Control, Automation and Systems, 2013, 11, 742-751.	2.7	1
196	Robust Performance Enhancement Using Disturbance Observers for Hysteresis Compensation Based on Generalized Prandtlâ€"Ishlinskii Model. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	24
197	Optimal preview control for discrete-time descriptor causal systems in a multirate setting. International Journal of Control, 2013, 86, 844-854.	1.9	17
198	Corrections to "A minimum parameter adaptive approach for rejecting multiple narrow-band disturbances with application to hard disk drives" [Mar 12 408-415]. IEEE Transactions on Control Systems Technology, 2013, 21, 1996-1996.	5.2	0

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199	On the time-optimal trajectory planning and control of robotic manipulators along predefined paths. , 2013, , .		10
200	Robust tracking performance and disturbance rejection for a class of nonlinear systems using disturbance observers. , 2013, , .		5
201	Network-Based Rehabilitation System for Improved Mobility and Tele-Rehabilitation. IEEE Transactions on Control Systems Technology, 2013, 21, 1980-1987.	5.2	30
202	Torque Mode Control of a Cable-Driven Actuating System by Sensor Fusion. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	23
203	A nonlinear feedback controller for aerial self-righting by a tailed robot. , 2013, , .		39
204	Iterative learning control for vibration reduction in industrial robots with link flexibility. , 2013, , .		0
205	Reduced-complexity and robust Youla parameterization for discrete-time dual-input-single-output systems. , 2013, , .		0
206	Visual tracking with sensing dynamics compensation using the Expectation-Maximization algorithm. , 2013, , .		4
207	Design of force compensator with variable gain for bilateral control system under time delay. , 2013, , .		3
208	A calibration framework for industrial robotic work cells. , 2013, , .		3
209	Control methodologies for precision positioning systems. , 2013, , .		9
210	Fall-prediction algorithm using a neural network for safety enhancement of elderly. , 2013, , .		13
211	Selective model inversion and adaptive disturbance observer for rejection of time-varying vibrations on an active suspension. , 2013, , .		5
212	Signal Optimization at Urban Highway Rail Grade Crossings Using an Online Adaptive Priority Strategy. Journal of Transportation Engineering, 2012, 138, 479-484.	0.9	10
213	A sensor-based approach for error compensation of industrial robotic workcells. , 2012, , .		5
214	Robot end-effector sensing with position sensitive detector and inertial sensors. , 2012, , .		25
215	Compensation of packet loss for a network-based rehabilitation system. , 2012, , .		9
216	A network-based monitoring system for rehabilitation. , 2012, , .		8

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