Masayoshi Tomizuka

List of Publications by Year
in descending order

Version: 2024-02-01

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	Zero Phase Error Tracking Algorithm for Digital Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1987, 109, 65-68.	1.6	1,244
2	Analysis and Synthesis of Discrete-Time Repetitive Controllers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1989, 111, 353-358.	1.6	513
3	Control of Rotary Series Elastic Actuator for Ideal Force-Mode Actuation in Humanâ€“Robot Interaction Applications. IEEE/ASME Transactions on Mechatronics, 2009, 14, 105-118.	5.8	349
4	A Compact Rotary Series Elastic Actuator for Human Assistive Systems. IEEE/ASME Transactions on Mechatronics, 2012, 17, 288-297.	5.8	278
5	Robust Adaptive and Repetitive Digital Tracking Control and Application to a Hydraulic Servo for Noncircular Machining. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1994, 116, 24-32.	1.6	216
6	Smooth Robust Adaptive Sliding Mode Control of Manipulators With Guaranteed Transient Performance. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1996, 118, 764-775.	1.6	210
7	Synchronization of Two Motion Control Axes Under Adaptive Feedforward Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1992, 114, 196-203.	1.6	174
8	Vehicle Lateral Control for Highway Automation. , 1990, , .		165
9	Preview Control for Vehicle Lateral Guidance in Highway Automation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1993, 115, 679-686.	1.6	156
10	Adaptive Pulse Width Control for Precise Positioning Under the Influence of Stiction and Coulomb Friction. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1988, 110, 221-227.	1.6	153
11	Mechatronics - "What Is It, Why, and How?" An editorial. IEEE/ASME Transactions on Mechatronics, 1996, 1, 1-4.	5.8	152
12	Discrete-Time Domain Analysis and Synthesis of Repetitive Controllers. , 1988, , .		151
13	Model-free Deep Reinforcement Learning for Urban Autonomous Driving. , 2019, , .		146
14	Adaptive Zero Phase Error Tracking Algorithm for Digital Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1987, 109, 349-354.	1.6	139
15	A Unified Approach to the Design of Adaptive and Repetitive Controllers for Robotic Manipulators. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1990, 112, 618-629.	1.6	129
16	An Adaptive Control Scheme for Mechanical Manipulatorsâ€”Compensation of Nonlinearity and Decoupling Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1986, 108, 127-135.	1.6	117
17	On the Optimal Digital State Vector Feedback Controller With Integral and Preview Actions. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1979, 101, 172-178.	1.6	116
18	On the Design of Digital Tracking Controllers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1993, 115, 412-418.	1.6	112

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19	A Minimum Parameter Adaptive Approach for Rejecting Multiple Narrow-Band Disturbances With Application to Hard Disk Drives. IEEE Transactions on Control Systems Technology, 2012, 20, 408-415.	5.2	97
20	Optimization-Based Constrained Iterative Learning Control. IEEE Transactions on Control Systems Technology, 2011, 19, 1613-1621.	5.2	96
21	New Repetitive Control With Improved Steady-State Performance and Accelerated Transient. IEEE Transactions on Control Systems Technology, 2014, 22, 664-675.	5.2	94
22	Probabilistic Prediction of Vehicle Semantic Intention and Motion. , 2018, , .		93
23	Conditional Generative Neural System for Probabilistic Trajectory Prediction. , 2019, , .		91
24	Steady-State and Stochastic Performance of a Modified Discrete-Time Prototype Repetitive Controller. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1990, 112, 35-41.	1.6	90
25	Cancellation of Discrete Time Unstable Zeros by Feedforward Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1994, 116, 33-38.	1.6	89
26	Distributed Conflict Resolution for Connected Autonomous Vehicles. IEEE Transactions on Intelligent Vehicles, 2018, 3, 18-29.	12.7	87
27	Coordinated Position Control of Multi-Axis Mechanical Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1998, 120, 389-393.	1.6	86
28	Passivity-Based Versus Disturbance Observer Based Robot Control: Equivalence and Stability. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 41-47.	1.6	84
29	Impedance Compensation of SUBAR for Back-Drivable Force-Mode Actuation. IEEE Transactions on Robotics, 2009, 25, 512-521.	10.3	84
30	A Comparison of Four Discrete-Time Repetitive Control Algorithms. , 1992, , .		83
31	Control of Exoskeletons Inspired by Fictitious Gain in Human Model. IEEE/ASME Transactions on Mechatronics, 2009, 14, 689-698.	5.8	77
32	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
33	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
34	Adaptive And Repetitive Digital Control Algorithms for Noncircular Machining. , 1988, , .		75
35	Projection-Based Iterative Learning Control for Wafer Scanner Systems. IEEE/ASME Transactions on Mechatronics, 2009, 14, 388-393.	5.8	75
36	A novel integrated chassis controller for full drive-by-wire vehicles. Vehicle System Dynamics, 2015, 53, 215-236.	3.7	75

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37	Probabilistic Prediction of Interactive Driving Behavior via Hierarchical Inverse Reinforcement Learning. , 2018, , .		74
38	Deep Imitation Learning for Autonomous Driving in Generic Urban Scenarios with Enhanced Safety. , 2019, , .		73
39	An Overview on Study of Identification of Driver Behavior Characteristics for Automotive Control. Mathematical Problems in Engineering, 2014, 2014, 1-15.	1.1	69
40	Flatness-Based Nonlinear Control for Position Tracking of Electrohydraulic Systems. IEEE/ASME Transactions on Mechatronics, 2015, 20, 197-206.	5.8	68
41	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
42	A non-conservatively defensive strategy for urban autonomous driving. , 2016, , .		60
43	Clinical impact of gait training enhanced with visual kinematic biofeedback: Patients with Parkinsonâ€™s disease and patients stable post stroke. Neuropsychologia, 2015, 79, 332-343.	1.6	55
44	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
45	Autonomous alignment of peg and hole by force/torque measurement for robotic assembly. , 2016, , .		51
46	Disturbance Rejection Through an External Model. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1990, 112, 559-564.	1.6	50
47	Adaptive Output Regulation for the Rejection of a Periodic Disturbance With an Unknown Frequency. IEEE Transactions on Control Systems Technology, 2011, 19, 1296-1304.	5.2	50
48	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
49	A lizard-inspired active tail enables rapid maneuvers and dynamic stabilization in a terrestrial robot. , 2011, , .		49
50	Spatially-partitioned environmental representation and planning architecture for on-road autonomous driving. , 2017, , .		48
51	Towards Efficient Human-Robot Collaboration With Robust Plan Recognition and Trajectory Prediction. IEEE Robotics and Automation Letters, 2020, 5, 2602-2609.	5.1	48
52	Courteous Autonomous Cars. , 2018, , .		46
53	Modified Preview Control for a Wireless Tracking Control System With Packet Loss. IEEE/ASME Transactions on Mechatronics, 2015, 20, 299-307.	5.8	45
54	Constrained iterative LQR for on-road autonomous driving motion planning. , 2017, , .		45

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55	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
56	Vehicle lateral velocity and yaw rate control with two independent control inputs. , 1990, , .		43
57	Preview Control for Vehicle Lateral Guidance in Highway Automation. , 1991, , .		43
58	Adaptive Control of Robot Manipulators in Constrained Motionâ€"Controller Design. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1995, 117, 320-328.	1.6	43
59	Teach industrial robots peg-hole-insertion by human demonstration. , 2016, , .		43
60	A Fast Integrated Planning and Control Framework for Autonomous Driving via Imitation Learning. , 2018, , .		43
61	A Framework for Manipulating Deformable Linear Objects by Coherent Point Drift. IEEE Robotics and Automation Letters, 2018, 3, 3426-3433.	5.1	43
62	Smooth and continuous human gait phase detection based on foot pressure patterns. , 2008, , .		40
63	Speed profile planning in dynamic environments via temporal optimization. , 2017, , .		40
64	Learning Variable Impedance Control via Inverse Reinforcement Learning for Force-Related Tasks. IEEE Robotics and Automation Letters, 2021, 6, 2225-2232.	5.1	40
65	Design of Digital Feedforward/Preview Controllers for Processes With Predetermined Feedback Controllers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1980, 102, 218-225.	1.6	39
66	A Theoretical and Experimental Study on Vehicle Lateral Control. , 1992, , .		39
67	Kinematic Kalman Filter (KKF) for Robot End-Effector Sensing. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	1.6	39
68	A nonlinear feedback controller for aerial self-righting by a tailed robot. , 2013, , .		39
69	Fuzzy Logic Traction Controllers and their Effect on Longitudinal Vehicle Platoon Systems. Vehicle System Dynamics, 1996, 25, 277-303.	3.7	37
70	Coordinated Longitudinal and Lateral Motion Control of Vehicles for IVHS. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 535-543.	1.6	35
71	Human Motion Prediction using Semi-adaptable Neural Networks. , 2019, , .		35
72	Gait Phase-Based Control for a Rotary Series Elastic Actuator Assisting the Knee Joint. Journal of Medical Devices, Transactions of the ASME, 2011, 5, .	0.7	34

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73	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
74	Interaction-aware Multi-agent Tracking and Probabilistic Behavior Prediction via Adversarial Learning. , 2019, , .		34
75	Interaction-aware Decision Making with Adaptive Strategies under Merging Scenarios. , 2019, , .		32
76	Data-Driven Multiobjective Controller Optimization for a Magnetically Levitated Nanopositioning System. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1961-1970.	5.8	32
77	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
78	Fuzzy Stabilization of Nonlinear Systems Under Sampled-Data Feedback: An Exact Discrete-Time Model Approach. IEEE Transactions on Fuzzy Systems, 2010, , .	9.8	31
79	A mobile gait monitoring system for gait analysis. , 2009, , .		30
80	Network-Based Rehabilitation System for Improved Mobility and Tele-Rehabilitation. IEEE Transactions on Control Systems Technology, 2013, 21, 1980-1987.	5.2	30
81	Enabling safe freeway driving for automated vehicles. , 2016, , .		30
82	Behavior Planning of Autonomous Cars with Social Perception. , 2019, , .		30
83	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
84	Iterative learning control design for synchronization of wafer and reticle stages. , 2008, , .		29
85	Preview control for impulse-free continuous-time descriptor systems. International Journal of Control, 2015, 88, 1142-1149.	1.9	29
86	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
87	A New Plug-In Adaptive Controller for Rejection of Periodic Disturbances. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1993, 115, 543-546.	1.6	28
88	Deep Hierarchical Reinforcement Learning for Autonomous Driving with Distinct Behaviors. , 2018, , .		28
89	Fusing Birdâ€™s Eye View LIDAR Point Cloud and Front View Camera Image for 3D Object Detection. , 2018, , .		28
90	Adaptive Control of Robot Manipulators in Constrained Motion. , 1993, , .		27

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91	Convex feasible set algorithm for constrained trajectory smoothing. , 2017, , .		27
92	Multi-modal Probabilistic Prediction of Interactive Behavior via an Interpretable Model. , 2019, , .		27
93	A new bias-compensating LS method for continuous system identification in the presence of coloured noise. International Journal of Control, 1992, 56, 1441-1452.	1.9	26
94	Robust control of discretized continuous systems using the theory of sliding modes. International Journal of Control, 1995, 62, 209-226.	1.9	26
95	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
96	Appropriate Sensor Placement for Fault-Tolerant Lane-Keeping Control of Automated Vehicles. IEEE/ASME Transactions on Mechatronics, 2007, 12, 465-471.	5.8	25
97	Control of an Exoskeleton for Realization of Aquatic Therapy Effects. IEEE/ASME Transactions on Mechatronics, 2010, 15, 191-200.	5.8	25
98	Robot end-effector sensing with position sensitive detector and inertial sensors. , 2012, , .		25
99	State estimation for deformable objects by point registration and dynamic simulation. , 2017, , .		25
100	Neural-Network-Based Iterative Learning Control for Multiple Tasks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4178-4190.	11.3	25
101	Optimal Decentralized Control for Uncertain Systems by Symmetric Gaussâ€“Seidel Semi-Proximal ALM. IEEE Transactions on Automatic Control, 2021, 66, 5554-5560.	5.7	25
102	Disturbance Rejection Through an External Model for Nonminimum Phase Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1994, 116, 39-44.	1.6	24
103	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
104	Track deformable objects from point clouds with structure preserved registration. International Journal of Robotics Research, 2022, 41, 599-614.	8.5	24
105	Robust Deformation Model Approximation for Robotic Cable Manipulation. , 2019, , .		24
106	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
107	Contact Transition Control of Nonlinear Mechanical Systems Subject to a Unilateral Constraint. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1997, 119, 749-759.	1.6	23
108	Adaptive Robust Motion and Force Tracking Control of Robot Manipulators in Contact With Compliant Surfaces With Unknown Stiffness. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1998, 120, 232-240.	1.6	23

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109	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
110	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
111	A Framework for Probabilistic Generic Traffic Scene Prediction. , 2018, , .		23
112	Ensuring safety in human-robot coexistence environment. , 2014, , .		22
113	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
114	Generic Probabilistic Interactive Situation Recognition and Prediction: From Virtual to Real. , 2018, , .		22
115	Generic Vehicle Tracking Framework Capable of Handling Occlusions Based on Modified Mixture Particle Filter. , 2018, , .		22
116	Wasserstein Generative Learning with Kinematic Constraints for Probabilistic Interactive Driving Behavior Prediction. , 2019, , .		22
117	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
118	Dynamic Anti-Integrator-Windup Controller Design for Linear Systems With Actuator Saturation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 1-12.	1.6	21
119	Compensation of Dominant Frequency Components of Nonrepeatable Disturbance in Hard Disk Drives. IEEE Transactions on Magnetics, 2007, 43, 3756-3762.	2.1	21
120	The stability of limit cycles in nonlinear systems. Nonlinear Dynamics, 2009, 56, 269-275.	5.2	21
121	Improving Control Performance by Minimizing Jitter in RT-WiFi Networks. , 2014, , .		21
122	RAIN: Reinforced Hybrid Attention Inference Network for Motion Forecasting. , 2021, , .		21
123	Design and Implementation of Digital Servo Controller for High Speed Machine Tools. , 1991, , .		20
124	Direct Joint Space State Estimation in Robots With Multiple Elastic Joints. IEEE/ASME Transactions on Mechatronics, 2014, 19, 697-706.	5.8	20
125	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
126	Real-time collision avoidance algorithm on industrial manipulators. , 2017, , .		20

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127	Interpretable Modelling of Driving Behaviors in Interactive Driving Scenarios based on Cumulative Prospect Theory. , 2019, , .		20
128	Human-Aware Robot Task Planning Based on a Hierarchical Task Model. IEEE Robotics and Automation Letters, 2021, 6, 1136-1143.	5.1	20
129	LIDAR Sensing for Vehicle Lateral Guidance: Algorithm and Experimental Study. IEEE/ASME Transactions on Mechatronics, 2006, 11, 653-660.	5.8	19
130	Design of a network-based mobile gait rehabilitation system. , 2012, , .		19
131	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
132	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
133	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
134	Position/Force Control of Multi-Axis Robot Manipulator based on the TDOF Robust Servo Controller for Each Joint. , 1992, , .		18
135	A disturbance observer approach to detecting and rejecting narrow-band disturbances in hard disk drives. , 2008, , .		18
136	Design of arbitrary-order robust iterative learning control based on robust control theory. Mechatronics, 2017, 47, 67-76.	3.3	18
137	Zero-shot Deep Reinforcement Learning Driving Policy Transfer for Autonomous Vehicles based on Robust Control. , 2018, , .		18
138	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
139	An Adaptive Sliding Mode Vehicle Traction Controller Design. , 1990, , .		17
140	A lizard-inspired active tail enables rapid maneuvers and dynamic stabilization in a terrestrial robot. , 2011, , .		17
141	Optimal preview control for discrete-time descriptor causal systems in a multirate setting. International Journal of Control, 2013, 86, 844-854.	1.9	17
142	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
143	Design and torque-mode control of a cable-driven rotary series elastic actuator for subject-robot interaction. , 2015, , .		17
144	A design methodology for disturbance observer with application to precision motion control: An H-infinity based approach. , 2017, , .		17

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145	Efficient Trajectory Optimization for Robot Motion Planning. , 2018, , .		17
146	Coordination and Trajectory Prediction for Vehicle Interactions via Bayesian Generative Modeling. , 2019, , .		17
147	Continual Multi-Agent Interaction Behavior Prediction With Conditional Generative Memory. IEEE Robotics and Automation Letters, 2021, 6, 8410-8417.	5.1	17
148	An Experimental Study on Lateral Control of a Vehicle. , 1991, , .		16
149	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
150	A Reusability Study of Vehicle Lateral Control System. Vehicle System Dynamics, 1994, 23, 259-278.	3.7	15
151	Intelligent Modeling of Thrust Force in Drilling Process. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 846-855.	1.6	15
152	Mechanical design and impedance compensation of SUBAR (Sogang University’s Biomedical) Tj ETQq0 0 0 rgBT /Overlock		15
153	Robust disturbance observer design for a power-assist electric bicycle. , 2010, , .		15
154	Cancellation of Unnatural Reaction Torque in Variable-Gear-Ratio. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	15
155	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
156	Towards a Fatality-Aware Benchmark of Probabilistic Reaction Prediction in Highly Interactive Driving Scenarios. , 2018, , .		15
157	Continuous Decision Making for On-road Autonomous Driving under Uncertain and Interactive Environments. , 2018, , .		15
158	Prediction of Human Arm Target for Robot Reaching Movements. , 2019, , .		15
159	Man-Machine Systems (Information, Control, and Decision Models of Human Performance). Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1975, 97, 105-105.	1.6	15
160	A Fuzzy Tuner for Fuzzy Logic Controllers. , 1992, , .		14
161	Iterative learning control with saturation constraints. , 2009, , .		14
162	A compact rotary series elastic actuator for knee joint assistive system. , 2010, , .		14

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163	Introduction and initial exploration of an Active/Passive Exoskeleton framework for portable assistance. , 2015, , .		14
164	Robotic manipulation of deformable objects by tangent space mapping and non-rigid registration. , 2016, , .		14
165	Constructing a Highly Interactive Vehicle Motion Dataset. , 2019, , .		14
166	Generic Prediction Architecture Considering both Rational and Irrational Driving Behaviors. , 2019, , .		14
167	Online Learning of Unknown Dynamics for Model-Based Controllers in Legged Locomotion. IEEE Robotics and Automation Letters, 2021, 6, 8442-8449.	5.1	14
168	A Review of Manufacturing Process Control. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	14
169	Trajectory Optimization for Manipulation of Deformable Objects: Assembly of Belt Drive Units. , 2021, , .		14
170	A Discrete-Time Robust Vehicle Traction Controller Design. , 1989, , .		13
171	Fall-prediction algorithm using a neural network for safety enhancement of elderly. , 2013, , .		13
172	Human guidance programming on a 6-DoF robot with collision avoidance. , 2016, , .		13
173	Iterative design of feedback and feedforward controller with input saturation constraint for building temperature control. , 2016, , .		13
174	Real-Time Grasp Planning for Multi-Fingered Hands by Finger Splitting. , 2018, , .		13
175	Non-uniform Multi-rate Estimator based Periodic Event-Triggered Control for resource saving. Information Sciences, 2018, 459, 86-102.	6.9	13
176	Efficient Grasp Planning and Execution With Multifingered Hands by Surface Fitting. IEEE Robotics and Automation Letters, 2019, 4, 3995-4002.	5.1	13
177	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
178	Causal-based Time Series Domain Generalization for Vehicle Intention Prediction. , 2022, , .		13
179	Safety Assurances for Human-Robot Interaction via Confidence-aware Game-theoretic Human Models. , 2022, , .		13
180	Design of iterative learning controller based on frequency domain linear matrix inequality. , 2009, , .		12

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181	Robust principal component analysis for iterative learning control of precision motion systems with non-repetitive disturbances. , 2015, , .		12
182	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
183	Interactive Prediction for Multiple, Heterogeneous Traffic Participants with Multi-Agent Hybrid Dynamic Bayesian Network. , 2019, , .		12
184	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
185	An Anti-Windup Design for Linear System With Asymptotic Tracking Subjected to Actuator Saturation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 369-374.	1.6	12
186	Robotic Cable Routing with Spatial Representation. IEEE Robotics and Automation Letters, 2022, 7, 5687-5694.	5.1	12
187	A Digital Segmented Repetitive Control Algorithm. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1994, 116, 577-582.	1.6	11
188	A New Approach of Coordinated Motion Control Subjected to Actuator Saturation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2001, 123, 496-504.	1.6	11
189	Flexible Joint Actuator for Patient's Rehabilitation Device. , 2007, , .		11
190	Suppression of vibration due to transmission error of harmonic drives using peak filter with acceleration feedback. , 2008, , .		11
191	Robotic rehabilitation treatments: Realization of aquatic therapy effects in exoskeleton systems. , 2009, , .		11
192	Control algorithms for prevention of impacts in rehabilitation systems. , 2011, , .		11
193	Fast planning of well conditioned trajectories for model learning. , 2014, , .		11
194	Extended state observer with phase compensation to estimate and suppress high-frequency disturbances. , 2016, , .		11
195	Optimization-based constrained iterative learning control with application to building temperature control systems. , 2016, , .		11
196	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
197	Real-Time Finger Gaits Planning for Dexterous Manipulation * *This project was supported by FANUC Corporation. IFAC-PapersOnLine, 2017, 50, 12765-12772.	0.9	11
198	Robust dexterous manipulation under object dynamics uncertainties. , 2017, , .		11

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199	Safe and feasible motion generation for autonomous driving via constrained policy net. , 2017, , .		11
200	Grasp Planning for Customized Grippers by Iterative Surface Fitting. , 2018, , .		11
201	Adaptive Probabilistic Vehicle Trajectory Prediction Through Physically Feasible Bayesian Recurrent Neural Network. , 2019, , .		11
202	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
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