Masayoshi Tomizuka

List of Publications by Citations

Source: https://exaly.com/author-pdf/7279516/masayoshi-tomizuka-publications-by-citations.pdf

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

308 6,842 40 72 g-index

358 8,742 3 6.45 ext. papers ext. citations avg, IF L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 308 | Zero Phase Error Tracking Algorithm for Digital Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1987 , 109, 65-68 | 1.6 | 887 |
| 307 | Analysis and Synthesis of Discrete-Time Repetitive Controllers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 1989 , 111, 353-358 | 1.6 | 362 |
| 306 | Control of Rotary Series Elastic Actuator for Ideal Force-Mode Actuation in Human R obot Interaction Applications. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009 , 14, 105-118 | 5.5 | 265 |
| 305 | A Compact Rotary Series Elastic Actuator for Human Assistive Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2012 , 17, 288-297 | 5.5 | 202 |
| 304 | Robust Adaptive and Repetitive Digital Tracking Control and Application to a Hydraulic Servo for Noncircular Machining. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1994 , 116, 24-32 | 1.6 | 163 |
| 303 | Smooth Robust Adaptive Sliding Mode Control of Manipulators With Guaranteed Transient Performance. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1996 , 118, 764-775 | 1.6 | 146 |
| 302 | Vehicle Lateral Control for Highway Automation 1990 , | | 131 |
| 301 | Synchronization of Two Motion Control Axes Under Adaptive Feedforward Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1992 , 114, 196-203 | 1.6 | 128 |
| 300 | Adaptive Pulse Width Control for Precise Positioning Under the Influence of Stiction and Coulomb Friction. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1988 , 110, 221-227 | 1.6 | 109 |
| 299 | Mechatronics - "What Is It, Why, and How?" An editorial. <i>IEEE/ASME Transactions on Mechatronics</i> , 1996 , 1, 1-4 | 5.5 | 106 |
| 298 | Adaptive Zero Phase Error Tracking Algorithm for Digital Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 1987 , 109, 349-354 | 1.6 | 92 |
| 297 | 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 | 84 |
| 296 | New Repetitive Control With Improved Steady-State Performance and Accelerated Transient. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 664-675 | 4.8 | 77 |
| 295 | On the Design of Digital Tracking Controllers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1993 , 115, 412-418 | 1.6 | 77 |
| 294 | Discrete-Time Domain Analysis and Synthesis of Repetitive Controllers 1988, | | 77 |
| 293 | 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 | 77 |
| 292 | An Adaptive Control Scheme for Mechanical Manipulators@ompensation of Nonlinearity and Decoupling Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> . 1986 . 108. 127-135 | 1.6 | 76 |

| 291 | Preview Control for Vehicle Lateral Guidance in Highway Automation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1993 , 115, 679-686 | 1.6 | 74 | |
|-----|--|-----|----|--|
| 290 | A Minimum Parameter Adaptive Approach for Rejecting Multiple Narrow-Band Disturbances With Application to Hard Disk Drives. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 408-415 | 4.8 | 72 | |
| 289 | Optimization-Based Constrained Iterative Learning Control. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1613-1621 | 4.8 | 72 | |
| 288 | Steady-State and Stochastic Performance of a Modified Discrete-Time Prototype Repetitive Controller. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1990 , 112, 35-41 | 1.6 | 71 | |
| 287 | Coordinated Position Control of Multi-Axis Mechanical Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1998 , 120, 389-393 | 1.6 | 67 | |
| 286 | 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 | 66 | |
| 285 | Cancellation of Discrete Time Unstable Zeros by Feedforward Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 1994 , 116, 33-38 | 1.6 | 66 | |
| 284 | Impedance Compensation of SUBAR for Back-Drivable Force-Mode Actuation. <i>IEEE Transactions on Robotics</i> , 2009 , 25, 512-521 | 6.5 | 63 | |
| 283 | A Comparison of Four Discrete-Time Repetitive Control Algorithms 1992, | | 63 | |
| 282 | Control of Exoskeletons Inspired by Fictitious Gain in Human Model. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009 , 14, 689-698 | 5.5 | 60 | |
| 281 | A novel integrated chassis controller for full drive-by-wire vehicles. <i>Vehicle System Dynamics</i> , 2015 , 53, 215-236 | 2.8 | 59 | |
| 280 | Projection-Based Iterative Learning Control for Wafer Scanner Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2009 , 14, 388-393 | 5.5 | 59 | |
| 279 | Model-free Deep Reinforcement Learning for Urban Autonomous Driving 2019 , | | 55 | |
| 278 | Probabilistic Prediction of Vehicle Semantic Intention and Motion 2018, | | 50 | |
| 277 | Flatness-Based Nonlinear Control for Position Tracking of Electrohydraulic Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 197-206 | 5.5 | 47 | |
| 276 | Distributed Conflict Resolution for Connected Autonomous Vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , 2018 , 3, 18-29 | 5 | 45 | |
| 275 | Clinical impact of gait training enhanced with visual kinematic biofeedback: Patients with Parkinson's disease and patients stable post stroke. <i>Neuropsychologia</i> , 2015 , 79, 332-43 | 3.2 | 43 | |
| 274 | High-Gain-Observer-Based Integral Sliding Mode Control for Position Tracking of Electrohydraulic Servo Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 2695-2704 | 5.5 | 41 | |

| 273 | Optimal preview control for a linear continuous-time stochastic control system in finite-time horizon. <i>International Journal of Systems Science</i> , 2017 , 48, 129-137 | 2.3 | 40 |
|-----|---|-----|----|
| 272 | Dual-Stage Iterative Learning Control for MIMO Mismatched System With Application to Robots With Joint Elasticity. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 1350-1361 | 4.8 | 40 |
| 271 | Spatially-partitioned environmental representation and planning architecture for on-road autonomous driving 2017 , | | 40 |
| 270 | An Overview on Study of Identification of Driver Behavior Characteristics for Automotive Control. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-15 | 1.1 | 40 |
| 269 | Conditional Generative Neural System for Probabilistic Trajectory Prediction 2019, | | 40 |
| 268 | Adaptive Output Regulation for the Rejection of a Periodic Disturbance With an Unknown Frequency. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1296-1304 | 4.8 | 38 |
| 267 | Adaptive And Repetitive Digital Control Algorithms for Noncircular Machining 1988, | | 38 |
| 266 | Disturbance Rejection Through an External Model. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1990 , 112, 559-564 | 1.6 | 34 |
| 265 | A non-conservatively defensive strategy for urban autonomous driving 2016, | | 34 |
| 264 | Modified Preview Control for a Wireless Tracking Control System With Packet Loss. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 299-307 | 5.5 | 33 |
| 263 | Adaptive Control of Robot Manipulators in Constrained MotionController Design. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1995 , 117, 320-328 | 1.6 | 32 |
| 262 | Probabilistic Prediction of Interactive Driving Behavior via Hierarchical Inverse Reinforcement Learning 2018 , | | 30 |
| 261 | A nonlinear feedback controller for aerial self-righting by a tailed robot 2013, | | 28 |
| 260 | Fuzzy Logic Traction Controllers and their Effect on Longitudinal Vehicle Platoon Systems. <i>Vehicle System Dynamics</i> , 1996 , 25, 277-303 | 2.8 | 28 |
| 259 | Vehicle lateral velocity and yaw rate control with two independent control inputs 1990, | | 28 |
| 258 | Teach industrial robots peg-hole-insertion by human demonstration 2016, | | 28 |
| 257 | Kinematic Kalman Filter (KKF) for Robot End-Effector Sensing. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 2009 , 131, | 1.6 | 27 |
| 256 | Coordinated Longitudinal and Lateral Motion Control of Vehicles for IVHS. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 2001 , 123, 535-543 | 1.6 | 27 |

(2016-2013)

| 255 | Network-Based Rehabilitation System for Improved Mobility and Tele-Rehabilitation. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1980-1987 | 4.8 | 26 |
|---|---|----------|----------------------|
| 254 | A lizard-inspired active tail enables rapid maneuvers and dynamic stabilization in a terrestrial robot | | 26 |
| 253 | Autonomous alignment of peg and hole by force/torque measurement for robotic assembly 2016, | | 26 |
| 252 | Overview and new results in disturbance observer based adaptive vibration rejection with application to advanced manufacturing. <i>International Journal of Adaptive Control and Signal Processing</i> , 2015 , 29, 1459-1474 | 2.8 | 24 |
| 251 | Preview control for impulse-free continuous-time descriptor systems. <i>International Journal of Control</i> , 2015 , 88, 1142-1149 | 1.5 | 24 |
| 250 | Gait Phase-Based Control for a Rotary Series Elastic Actuator Assisting the Knee Joint. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2011 , 5, | 1.3 | 24 |
| 249 | A new bias-compensating LS method for continuous system identification in the presence of coloured noise. <i>International Journal of Control</i> , 1992 , 56, 1441-1452 | 1.5 | 24 |
| 248 | Disturbance Rejection Through an External Model for Nonminimum Phase Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1994 , 116, 39-44 | 1.6 | 23 |
| 247 | Design of Digital Feedforward/Preview Controllers for Processes With Predetermined Feedback Controllers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1980 , 102, 218-225 | 1.6 | 23 |
| 246 | Control of an Exoskeleton for Realization of Aquatic Therapy Effects. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 , 15, 191-200 | 5.5 | 22 |
| | | | |
| 245 | Smooth and continuous human gait phase detection based on foot pressure patterns 2008, | | 22 |
| 245 244 | Smooth and continuous human gait phase detection based on foot pressure patterns 2008, Deep Imitation Learning for Autonomous Driving in Generic Urban Scenarios with Enhanced Safety 2019, | | 22 |
| | Deep Imitation Learning for Autonomous Driving in Generic Urban Scenarios with Enhanced Safety | | |
| 244 | Deep Imitation Learning for Autonomous Driving in Generic Urban Scenarios with Enhanced Safety 2019 , | 4.2 | 22 |
| 244 | Deep Imitation Learning for Autonomous Driving in Generic Urban Scenarios with Enhanced Safety 2019, Courteous Autonomous Cars 2018, A Framework for Manipulating Deformable Linear Objects by Coherent Point Drift. IEEE Robotics | 4.2 | 22 |
| 244 243 242 | Deep Imitation Learning for Autonomous Driving in Generic Urban Scenarios with Enhanced Safety 2019, Courteous Autonomous Cars 2018, A Framework for Manipulating Deformable Linear Objects by Coherent Point Drift. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 3426-3433 Torque Mode Control of a Cable-Driven Actuating System by Sensor Fusion. <i>Journal of Dynamic</i> | <u> </u> | 22 22 21 |
| 244243242241 | Deep Imitation Learning for Autonomous Driving in Generic Urban Scenarios with Enhanced Safety 2019, Courteous Autonomous Cars 2018, A Framework for Manipulating Deformable Linear Objects by Coherent Point Drift. IEEE Robotics and Automation Letters, 2018, 3, 3426-3433 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, | <u> </u> | 22 22 21 21 |
| 244243242241240 | Deep Imitation Learning for Autonomous Driving in Generic Urban Scenarios with Enhanced Safety 2019, Courteous Autonomous Cars 2018, A Framework for Manipulating Deformable Linear Objects by Coherent Point Drift. IEEE Robotics and Automation Letters, 2018, 3, 3426-3433 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, Iterative learning control design for synchronization of wafer and reticle stages 2008, Robust control of discretized continuous systems using the theory of sliding modes. International | 1.6 | 22 22 21 21 |

| 237 | 2017, | | 20 |
|-----|--|-----|----|
| 236 | Dual-Stage Adaptive Friction Compensation for Precise Load Side Position Tracking of Indirect Drive Mechanisms. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 164-175 | 4.8 | 20 |
| 235 | 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 | 20 |
| 234 | Appropriate Sensor Placement for Fault-Tolerant Lane-Keeping Control of Automated Vehicles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2007 , 12, 465-471 | 5.5 | 20 |
| 233 | Preview Control for Vehicle Lateral Guidance in Highway Automation 1991, | | 20 |
| 232 | Interaction-aware Multi-agent Tracking and Probabilistic Behavior Prediction via Adversarial Learning 2019 , | | 19 |
| 231 | Ensuring safety in human-robot coexistence environment 2014 , | | 19 |
| 230 | A mobile gait monitoring system for gait analysis 2009 , | | 19 |
| 229 | Compensation of Dominant Frequency Components of Nonrepeatable Disturbance in Hard Disk Drives. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3756-3762 | 2 | 19 |
| 228 | Adaptive Robust Motion and Force Tracking Control of Robot Manipulators in Contact With Compliant Surfaces With Unknown Stiffness. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1998 , 120, 232-240 | 1.6 | 19 |
| 227 | A Theoretical and Experimental Study on Vehicle Lateral Control 1992, | | 19 |
| 226 | Nonlinear Control With High-Gain Extended State Observer for Position Tracking of Electro-Hydraulic Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 2610-2621 | 5.5 | 18 |
| 225 | The stability of limit cycles in nonlinear systems. <i>Nonlinear Dynamics</i> , 2009 , 56, 269-275 | 5 | 18 |
| 224 | A Fast Integrated Planning and Control Framework for Autonomous Driving via Imitation Learning 2018 , | | 18 |
| 223 | Towards Efficient Human-Robot Collaboration With Robust Plan Recognition and Trajectory Prediction. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 2602-2609 | 4.2 | 17 |
| 222 | Robust Performance Enhancement Using Disturbance Observers for Hysteresis Compensation Based on Generalized Prandtllhlinskii Model. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135, | 1.6 | 17 |
| 221 | Optimal preview control for discrete-time descriptor causal systems in a multirate setting. <i>International Journal of Control</i> , 2013 , 86, 844-854 | 1.5 | 17 |
| 220 | Fuzzy Stabilization of Nonlinear Systems under Sampled-Data Feedback: An Exact Discrete-Time Model Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2010 , | 8.3 | 17 |

| 219 | Robot end-effector sensing with position sensitive detector and inertial sensors 2012 , | | 17 | |
|-----|--|-----|----|--|
| 218 | Adaptive Control of Robot Manipulators in Constrained Motion 1993, | | 17 | |
| 217 | Generic Tracking and Probabilistic Prediction Framework and Its Application in Autonomous Driving. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 21, 3634-3649 | 6.1 | 17 | |
| 216 | Generic Vehicle Tracking Framework Capable of Handling Occlusions Based on Modified Mixture Particle Filter 2018 , | | 17 | |
| 215 | A terminal sliding mode based torque distribution control for an individual-wheel-drive vehicle. <i>Journal of Zhejiang University: Science A</i> , 2014 , 15, 681-693 | 2.1 | 16 | |
| 214 | Speed profile planning in dynamic environments via temporal optimization 2017, | | 16 | |
| 213 | Convex feasible set algorithm for constrained trajectory smoothing 2017, | | 16 | |
| 212 | Interaction-aware Decision Making with Adaptive Strategies under Merging Scenarios 2019, | | 16 | |
| 211 | Interpretable End-to-End Urban Autonomous Driving With Latent Deep Reinforcement Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-11 | 6.1 | 16 | |
| 210 | Discrete-time nonlinear damping backstepping control with observers for rejection of low and high frequency disturbances. <i>Mechanical Systems and Signal Processing</i> , 2018 , 104, 436-448 | 7.8 | 16 | |
| 209 | . IEEE/ASME Transactions on Mechatronics, 2020 , 25, 1961-1970 | 5.5 | 15 | |
| 208 | Design of arbitrary-order robust iterative learning control based on robust control theory. <i>Mechatronics</i> , 2017 , 47, 67-76 | 3 | 15 | |
| 207 | A New Plug-In Adaptive Controller for Rejection of Periodic Disturbances. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 1993 , 115, 543-546 | 1.6 | 15 | |
| 206 | Efficient Sampling-Based Maximum Entropy Inverse Reinforcement Learning With Application to Autonomous Driving. <i>IEEE Robotics and Automation Letters</i> , 2020 , 5, 5355-5362 | 4.2 | 15 | |
| 205 | . IEEE/ASME Transactions on Mechatronics, 2018 , 23, 2671-2680 | 5.5 | 15 | |
| 204 | Wasserstein Generative Learning with Kinematic Constraints for Probabilistic Interactive Driving Behavior Prediction 2019 , | | 14 | |
| 203 | Design and torque-mode control of a cable-driven rotary series elastic actuator for subject-robot interaction 2015 , | | 14 | |
| 202 | Statistical Learning Algorithms to Compensate Slow Visual Feedback for Industrial Robots. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137, | 1.6 | 14 | |

| 201 | An improved delay-dependent stability criterion for linear uncertain systems with multiple time-varying delays. <i>International Journal of Control</i> , 2014 , 87, 861-873 | 1.5 | 14 |
|-----|---|-----|----|
| 200 | Improving Control Performance by Minimizing Jitter in RT-WiFi Networks 2014, | | 14 |
| 199 | Design of a network-based mobile gait rehabilitation system 2012, | | 14 |
| 198 | Mechanical design and impedance compensation of SUBAR (Sogang University Biomedical Assist Robot) 2008 , | | 14 |
| 197 | LIDAR Sensing for Vehicle Lateral Guidance: Algorithm and Experimental Study. <i>IEEE/ASME Transactions on Mechatronics</i> , 2006 , 11, 653-660 | 5.5 | 14 |
| 196 | Precise Linear-Motor Synchronization Control via Cross-Coupled Second-Order Discrete-Time Fractional-Order Sliding Mode. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 1-1 | 5.5 | 14 |
| 195 | Towards a Fatality-Aware Benchmark of Probabilistic Reaction Prediction in Highly Interactive Driving Scenarios 2018 , | | 14 |
| 194 | State estimation for deformable objects by point registration and dynamic simulation 2017, | | 13 |
| 193 | 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 | 13 |
| 192 | An Experimental Study on Lateral Control of a Vehicle 1991, | | 13 |
| 191 | . IEEE Transactions on Automatic Control, 2021 , 66, 5554-5560 | 5.9 | 13 |
| 190 | Human Motion Prediction using Semi-adaptable Neural Networks 2019, | | 13 |
| 189 | Generic Probabilistic Interactive Situation Recognition and Prediction: From Virtual to Real 2018, | | 13 |
| 188 | Continuous Decision Making for On-road Autonomous Driving under Uncertain and Interactive Environments 2018 , | | 13 |
| 187 | Multi-modal Probabilistic Prediction of Interactive Behavior via an Interpretable Model 2019, | | 12 |
| 186 | A design methodology for disturbance observer with application to precision motion control: An H-infinity based approach 2017 , | | 12 |
| 185 | Direct Joint Space State Estimation in Robots With Multiple Elastic Joints. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014 , 19, 697-706 | 5.5 | 12 |
| 184 | A lizard-inspired active tail enables rapid maneuvers and dynamic stabilization in a terrestrial robot 2011 , | | 12 |

(2021-2006)

| 183 | Intelligent Modeling of Thrust Force in Drilling Process. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006 , 128, 846-855 | 1.6 | 12 |
|-----|--|------|----|
| 182 | Man-Machine Systems (Information, Control, and Decision Models of Human Performance). <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1975 , 97, 105-105 | 1.6 | 12 |
| 181 | Learning Variable Impedance Control via Inverse Reinforcement Learning for Force-Related Tasks. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 2225-2232 | 4.2 | 12 |
| 180 | Interpretable Modelling of Driving Behaviors in Interactive Driving Scenarios based on Cumulative Prospect Theory 2019 , | | 12 |
| 179 | A Framework for Probabilistic Generic Traffic Scene Prediction 2018, | | 12 |
| 178 | Behavior Planning of Autonomous Cars with Social Perception 2019 , | | 11 |
| 177 | Optimal Decoupled Disturbance Observers for Dual-Input Single-Output Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136, | 1.6 | 11 |
| 176 | Cancellation of Unnatural Reaction Torque in Variable-Gear-Ratio. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 2012 , 134, | 1.6 | 11 |
| 175 | A Reusability Study of Vehicle Lateral Control System. Vehicle System Dynamics, 1994, 23, 259-278 | 2.8 | 11 |
| 174 | Robotic manipulation of deformable objects by tangent space mapping and non-rigid registration 2016 , | | 11 |
| 173 | Deep Hierarchical Reinforcement Learning for Autonomous Driving with Distinct Behaviors 2018, | | 11 |
| 172 | Non-uniform Multi-rate Estimator based Periodic Event-Triggered Control for resource saving. <i>Information Sciences</i> , 2018 , 459, 86-102 | 7.7 | 11 |
| 171 | Fast planning of well conditioned trajectories for model learning 2014, | | 10 |
| 170 | Flexible Joint Actuator for Patient's Rehabilitation Device 2007, | | 10 |
| 169 | Position/Force Control of Multi-Axis Robot Manipulator based on the TDOF Robust Servo Controller for Each Joint 1992 , | | 10 |
| 168 | An Anti-Windup Design for Linear System With Asymptotic Tracking Subjected to Actuator Saturation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2000 , 122, 369-374 | 1.6 | 10 |
| 167 | Neural-Network-Based Iterative Learning Control for Multiple Tasks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 4178-4190 | 10.3 | 10 |
| 166 | Autonomous Ground Vehicle Lane-Keeping LPV Model-Based Control: Dual-Rate State Estimation and Comparison of Different Real-Time Control Strategies. <i>Sensors</i> , 2021 , 21, | 3.8 | 10 |

| 165 | Zero-shot Deep Reinforcement Learning Driving Policy Transfer for Autonomous Vehicles based on Robust Control 2018 , | | 10 |
|-----|---|-----|----|
| 164 | Iterative learning control with saturation constraints 2009, | | 9 |
| 163 | Signal Optimization at Urban Highway Rail Grade Crossings Using an Online Adaptive Priority Strategy. <i>Journal of Transportation Engineering</i> , 2012 , 138, 479-484 | | 9 |
| 162 | A Digital Segmented Repetitive Control Algorithm. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1994 , 116, 577-582 | 1.6 | 9 |
| 161 | Design and Implementation of Digital Servo Controller for High Speed Machine Tools 1991, | | 9 |
| 160 | Constructing a Highly Interactive Vehicle Motion Dataset 2019, | | 9 |
| 159 | Fusing Bird Eye View LIDAR Point Cloud and Front View Camera Image for 3D Object Detection 2018 , | | 9 |
| 158 | A Double Disturbance Observer Design for Compensation of Unknown Time Delay in a Wireless Motion Control System. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 675-683 | 4.8 | 8 |
| 157 | On the time-optimal trajectory planning and control of robotic manipulators along predefined paths 2013 , | | 8 |
| 156 | Introduction and initial exploration of an Active/Passive Exoskeleton framework for portable assistance 2015 , | | 8 |
| 155 | Robotic rehabilitation treatments: Realization of aquatic therapy effects in exoskeleton systems 2009 , | | 8 |
| 154 | A Fuzzy Tuner for Fuzzy Logic Controllers 1992 , | | 8 |
| 153 | Trajectory Planning for High Speed Multiple Axis Contouring Systems 1989, | | 8 |
| 152 | Robust impedance control with applications to a series-elastic actuated system 2016 , | | 8 |
| 151 | Multi-rate Observer Based Sliding Mode Control with Frequency Shaping for Vibration Suppression Beyond Nyquist Frequency**This work was sponsored by Western Digital Corporation <i>IFAC-PapersOnLine</i> , 2016 , 49, 13-18 | 0.7 | 8 |
| 150 | Robust Deformation Model Approximation for Robotic Cable Manipulation 2019, | | 8 |
| 149 | Discrete-Time Reduced-Complexity Youla Parameterization for Dual-Input Single-Output Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 302-309 | 4.8 | 7 |
| 148 | Coordination and Trajectory Prediction for Vehicle Interactions via Bayesian Generative Modeling 2019 , | | 7 |

| 147 | Track deformable objects from point clouds with structure preserved registration. <i>International Journal of Robotics Research</i> , 2019 , 027836491984143 | 5.7 | 7 | |
|-----|--|-----|---|--|
| 146 | Efficient Grasp Planning and Execution With Multifingered Hands by Surface Fitting. <i>IEEE Robotics and Automation Letters</i> , 2019 , 4, 3995-4002 | 4.2 | 7 | |
| 145 | . IEEE/ASME Transactions on Mechatronics, 2019 , 24, 2040-2051 | 5.5 | 7 | |
| 144 | Real-time collision avoidance algorithm on industrial manipulators 2017, | | 7 | |
| 143 | Optimal plant shaping for high bandwidth disturbance rejection in discrete disturbance observers 2010 , | | 7 | |
| 142 | Full Sheet Control Using Steerable Nips. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 , 15, 48-58 | 5.5 | 7 | |
| 141 | A New Approach of Coordinated Motion Control Subjected to Actuator Saturation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2001 , 123, 496-504 | 1.6 | 7 | |
| 140 | Extended state observer with phase compensation to estimate and suppress high-frequency disturbances 2016 , | | 7 | |
| 139 | A Remote Control Strategy for an Autonomous Vehicle with Slow Sensor Using Kalman Filtering and Dual-Rate Control. <i>Sensors</i> , 2019 , 19, | 3.8 | 6 | |
| 138 | Safe and feasible motion generation for autonomous driving via constrained policy net 2017, | | 6 | |
| 137 | Robust principal component analysis for iterative learning control of precision motion systems with non-repetitive disturbances 2015 , | | 6 | |
| 136 | Control methodologies for precision positioning systems 2013, | | 6 | |
| 135 | Design of the Tracking Controller for Holographic Digital Data Storage. <i>IEEE/ASME Transactions on Mechatronics</i> , 2010 , 15, 242-252 | 5.5 | 6 | |
| 134 | Output Saturation in Electric Motor Systems: Identification and Controller Design. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132, | 1.6 | 6 | |
| 133 | Time-varying complementary filtering for attitude estimation 2011, | | 6 | |
| 132 | Design of iterative learning controller based on frequency domain linear matrix inequality 2009, | | 6 | |
| 131 | Robust fixed-structure controller design of electric power steering systems 2009, | | 6 | |
| 130 | Compensation of packet loss for a network-based rehabilitation system 2012 , | | 6 | |

| 129 | Design of a Rehabilitation Device Based on a Mechanical Link System. <i>Journal of Mechanisms and Robotics</i> , 2012 , 4, | 2.2 | 6 |
|-----|---|------|---|
| 128 | A disturbance observer approach to detecting and rejecting narrow-band disturbances in hard disk drives 2008 , | | 6 |
| 127 | Robust digital tracking with perturbation estimation via the Euler operator. <i>International Journal of Control</i> , 1996 , 63, 239-256 | 1.5 | 6 |
| 126 | An Adaptive Sliding Mode Vehicle Traction Controller Design 1990, | | 6 |
| 125 | Multirate sampling adaptive control and its application to thermal mixing systems. <i>International Journal of Control</i> , 1988 , 47, 735-744 | 1.5 | 6 |
| 124 | A Discrete-Time Robust Vehicle Traction Controller Design 1989, | | 6 |
| 123 | Digital Control Of Repetitive Errors In Disk Drive Systems 1989, | | 6 |
| 122 | Human guidance programming on a 6-DoF robot with collision avoidance 2016 , | | 6 |
| 121 | Prediction of Human Arm Target for Robot Reaching Movements 2019, | | 6 |
| 120 | Energy-Efficient Control for an Unmanned Ground Vehicle in a Wireless Sensor Network. <i>Journal of Sensors</i> , 2019 , 2019, 1-16 | 2 | 6 |
| 119 | Generic Prediction Architecture Considering both Rational and Irrational Driving Behaviors 2019, | | 6 |
| 118 | Real-Time Finger Gaits Planning for Dexterous Manipulation. IFAC-PapersOnLine, 2017, 50, 12765-12772 | 20.7 | 5 |
| 117 | Improving Efficiency of Autonomous Vehicles by V2V Communication 2018, | | 5 |
| 116 | Adaptive Probabilistic Vehicle Trajectory Prediction Through Physically Feasible Bayesian Recurrent Neural Network 2019 , | | 5 |
| 115 | Nonlinear Controller With the Dead-Zone and Saturation for Optical Disk Drive Systems in the Presence of External Shocks. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014 , 19, 1458-1463 | 5.5 | 5 |
| 114 | Robust time delay compensation in a wireless motion control system with double disturbance observers 2015 , | | 5 |
| 113 | Fall-prediction algorithm using a neural network for safety enhancement of elderly 2013, | | 5 |
| 112 | Robust disturbance observer design for a power-assist electric bicycle 2010 , | | 5 |

| 111 | Load side state estimation in robot with joint elasticity 2012 , | | 5 |
|-----|--|--------------------|---|
| 110 | DYNAMIC ANALYSES AND ROBUST STEERING CONTROLLER DESIGN FOR AUTOMATED LANE GUIDANCE OF HEAVY-DUTY VEHICLES. <i>Asian Journal of Control</i> , 2008 , 2, 140-154 | 1.7 | 5 |
| 109 | Multivariable Direct Adaptive Control of Thermal Mixing Processes. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1985 , 107, 278-283 | 1.6 | 5 |
| 108 | Multi-Rate Feedforward Tracking Control for Plants With Nonminimum Phase Discrete Time Models. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2001 , 123, 556 | - 1 560 | 5 |
| 107 | Optimization-based constrained iterative learning control with application to building temperature control systems 2016 , | | 5 |
| 106 | The Experimental Realization of an Artificial Low-Reynolds-Number Swimmer with Three-Dimensional Maneuverability 2019 , | | 5 |
| 105 | Interactive Prediction for Multiple, Heterogeneous Traffic Participants with Multi-Agent Hybrid Dynamic Bayesian Network 2019 , | | 5 |
| 104 | Enable faster and smoother spatio-temporal trajectory planning for autonomous vehicles in constrained dynamic environment. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2021 , 235, 1101-1112 | 1.4 | 5 |
| 103 | On Robust Stability and Performance With a Fixed-Order Controller Design for Uncertain Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems,</i> 2021 , 1-13 | 7.3 | 5 |
| 102 | Online Learning of Unknown Dynamics for Model-Based Controllers in Legged Locomotion. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 8442-8449 | 4.2 | 5 |
| 101 | Iterative design of feedback and feedforward controller with input saturation constraint for building temperature control 2016 , | | 4 |
| 100 | Robust dexterous manipulation under object dynamics uncertainties 2017, | | 4 |
| 99 | Distributed and cooperative optimization-based iterative learning control for large-scale building temperature regulation 2017 , | | 4 |
| 98 | Real-time robust finger gaits planning under object shape and dynamics uncertainties 2017, | | 4 |
| 97 | Control algorithms for prevention of impacts in rehabilitation systems 2011, | | 4 |
| 96 | Multiple model adaptive estimation of satellite attitude using MEMS gyros 2011, | | 4 |
| 95 | A network-based monitoring system for rehabilitation 2012, | | 4 |
| 94 | Stability of Controlled Mechanical Systems With Ideal Coulomb Friction. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 2008 , 130, | 1.6 | 4 |

| 93 | Feedforward digital tracking controllers for motion control applications. <i>Advanced Robotics</i> , 1992 , 7, 575-586 | 1.7 | 4 |
|----|---|-----|---|
| 92 | Repetitive Control of a Two Degree of Freedom SCARA Manipulator 1989, | | 4 |
| 91 | A Review of Manufacturing Process Control. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020 , 142, | 3.3 | 4 |
| 90 | Integral Action For Chattering Reduction And Error Convergence in Sliding Mode Control 1992, | | 4 |
| 89 | Real-Time Grasp Planning for Multi-Fingered Hands by Finger Splitting 2018, | | 4 |
| 88 | Discrete-time Frequency-shaped Sliding Mode Control for Audio-vibration Rejection in Hard Disk Drives. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 6843-6848 | | 3 |
| 87 | Development of a knee joint assist suit with hardware-based safety devices (Proposal and design of the assist suit). <i>Transactions of the JSME (in Japanese)</i> , 2017 , 83, 17-00279-17-00279 | 0.2 | 3 |
| 86 | Design of kinematic controller for real-time vision guided robot manipulators 2014, | | 3 |
| 85 | Robust tracking performance and disturbance rejection for a class of nonlinear systems using disturbance observers 2013 , | | 3 |
| 84 | Design of force compensator with variable gain for bilateral control system under time delay 2013, | | 3 |
| 83 | Global Exponential Stabilization of an Underactuated Nonholonomic Airship. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2009 , 45, 99-104 | 0.1 | 3 |
| 82 | Novel Schemes for Repeatable Runout Compensation Using Adaptive Feedforward Cancellation. <i>Proceedings of the American Control Conference</i> , 2007 , | 1.2 | 3 |
| 81 | Segmented iterative learning control for precision positioning of waferstages 2007, | | 3 |
| 80 | Variable Structure Discrete Time Position Control 1993 , | | 3 |
| 79 | Application of Model Reference Adaptive Techniques to a Class of Nonlinear Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1981 , 103, 158-163 | 1.6 | 3 |
| 78 | Time-varying complementary filtering for attitude estimation 2011, | | 3 |
| 77 | Expressing Diverse Human Driving Behavior with Probabilistic Rewards and Online Inference 2020, | | 3 |
| 76 | Selective model inversion and adaptive disturbance observer for rejection of time-varying vibrations on an active suspension 2013 , | | 3 |

(2012-2016)

| 75 | Design of a Passive Upper Limb Exoskeleton for Macaque Monkeys. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME,</i> 2016 , 138, | 1.6 | 3 |
|----------------------|--|------------|-------|
| 74 | A frequency-shaping methodology for discrete-time sliding mode control. <i>International Journal of Control</i> , 2019 , 92, 1662-1671 | 1.5 | 3 |
| 73 | Practical Fractional-Order Variable-Gain Super-Twisting Control with Application to Wafer Stages of Photolithography Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1 | 5.5 | 3 |
| 72 | Spatio-Temporal Graph Dual-Attention Network for Multi-Agent Prediction and Tracking. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-14 | 6.1 | 3 |
| 71 | Simplified Realization of Zero Phase Error Tracking. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2021 , 143, | 1.6 | 3 |
| 70 | Continual Multi-Agent Interaction Behavior Prediction With Conditional Generative Memory. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 8410-8417 | 4.2 | 3 |
| 69 | Labels Are Not Perfect: Inferring Spatial Uncertainty in Object Detection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-14 | 6.1 | 3 |
| 68 | . IEEE Transactions on Intelligent Transportation Systems, 2021 , 1-17 | 6.1 | 3 |
| 67 | Motion control of series-elastic actuators 2016 , | | 2 |
| 66 | Enhanced wide-spectrum vibration suppression based on adaptive loop shaping 2016, | | 2 |
| | | | |
| 65 | Probabilistic Approach to Modeling and Parameter Learning of Indirect Drive Robots From Incomplete Data. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1036-1045 | 5.5 | 2 |
| 65 64 | | 5·5 1.6 | 2 |
| | Incomplete Data. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1036-1045 Feedforward Input Generation Based on Neural Network Prediction in Multi-Joint Robots1. <i>Journal</i> | | |
| 64 | Incomplete Data. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1036-1045 Feedforward Input Generation Based on Neural Network Prediction in Multi-Joint Robots1. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136, Robust multi-objective control for systems involving human-in-the-loop passivity constraints with | | 2 |
| 64 | Incomplete Data. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1036-1045 Feedforward Input Generation Based on Neural Network Prediction in Multi-Joint Robots1. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136, Robust multi-objective control for systems involving human-in-the-loop passivity constraints with application to electric power steering 2010 , Convergence Analysis of a Steerable Nip Mechanism for Full Sheet Control in Printing Devices. | 1.6 | 2 |
| 64 63 62 | Incomplete Data. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1036-1045 Feedforward Input Generation Based on Neural Network Prediction in Multi-Joint Robots1. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136, Robust multi-objective control for systems involving human-in-the-loop passivity constraints with application to electric power steering 2010 , Convergence Analysis of a Steerable Nip Mechanism for Full Sheet Control in Printing Devices. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132, | 1.6 | 2 2 |
| 64 63 62 61 | Incomplete Data. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1036-1045 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, Robust multi-objective control for systems involving human-in-the-loop passivity constraints with application to electric power steering 2010, Convergence Analysis of a Steerable Nip Mechanism for Full Sheet Control in Printing Devices. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2010, 132, Design of a mobile gait monitoring system 2010, | 1.6 | 2 2 2 |

| 57 | OpenSHM: Open Architecture Design of Structural Health Monitoring Software in Wireless Sensor Nodes 2008 , | | 2 |
|----|---|-----|---|
| 56 | Estimation of abnormalities in a human gait using sensor-embedded shoes 2008, | | 2 |
| 55 | Self-tuning control of time-varying systems based on generalized minimum variance criterion 2007, | | 2 |
| 54 | Adaptive Time Optimal Control for Ship Steering. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1986 , 108, 233-239 | 1.6 | 2 |
| 53 | Trajectory Splitting: A Distributed Formulation for Collision Avoiding Trajectory Optimization 2021, | | 2 |
| 52 | Fractional-Order Variable-Gain Super-Twisting Control With Application to Wafer Stages of Photolithography Systems 2020 , | | 2 |
| 51 | Adaptive rejection of the dominant frequency components of non-repeatable runout in hard disk drives 2007 , | | 2 |
| 50 | Trajectory Optimization for Manipulation of Deformable Objects: Assembly of Belt Drive Units 2021 , | | 2 |
| 49 | Bayesian Persuasive Driving 2019 , | | 2 |
| 48 | Experimental Evaluation of Human Motion Prediction Toward Safe and Efficient Human Robot Collaboration 2020 , | | 2 |
| 47 | IDE-Net: Interactive Driving Event and Pattern Extraction From Human Data. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3065-3072 | 4.2 | 2 |
| 46 | Human-Aware Robot Task Planning Based on a Hierarchical Task Model. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 1136-1143 | 4.2 | 2 |
| 45 | Socially-Compatible Behavior Design of Autonomous Vehicles With Verification on Real Human Data. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3421-3428 | 4.2 | 2 |
| 44 | Feedback-based Digital Higher-order Terminal Sliding Mode for 6-DOF Industrial Manipulators 2021 , | | 2 |
| 43 | Discrete-Time H-Infinity Synthesis of Frequency-Shaped Sliding Mode Control for Suppression of Vibration With Multiple Peak Frequencies 2016 , | | 2 |
| 42 | Zero time delay input shaping for smooth settling of industrial robots 2016 , | | 2 |
| 41 | A Position-Based Friction Error Model and Its Application to Parameter Identification. <i>IEEE Access</i> , 2019 , 7, 7759-7767 | 3.5 | 2 |
| 40 | . IEEE Transactions on Industrial Electronics, 2021 , 1-1 | 8.9 | 2 |

| 39 | Efficient Trajectory Optimization for Robot Motion Planning 2018, | 2 |
|----|--|---|
| 38 | Grasp Planning for Customized Grippers by Iterative Surface Fitting 2018 , | 2 |
| 37 | Cooperative Driving Based on Negotiation with Persuasion and Concession 2018, | 2 |
| 36 | Development of a knee joint assist suit with a velocity-based mechanical safety device (Frequency response analysis of the safety device and experiments). <i>Transactions of the JSME (in Japanese)</i> , 0.2 2018 , 84, 18-00314-18-00314 | 2 |
| 35 | Characterization of Active/Passive Pneumatic Actuators for Assistive Devices 2018, | 2 |
| 34 | Optimal Control Parameterization for ActivelPassive EXoskeleton with Variable Impedance Actuator 2018 , | 2 |
| 33 | Offline-Online Learning of Deformation Model for Cable Manipulation With Graph Neural Networks. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 5544-5551 | 2 |
| 32 | Robotic Cable Routing with Spatial Representation. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 5687- 5 694 | 2 |
| 31 | RAIN: Reinforced Hybrid Attention Inference Network for Motion Forecasting 2021, | 2 |
| 30 | Reference Modulation for Performance Enhancement in Motion Control Systems 2018, | 1 |
| 29 | Real-time nonlinear programming by amplitude modulation. <i>International Journal of Control, Automation and Systems,</i> 2013 , 11, 742-751 | 1 |
| 28 | Boundary layer heuristic for search-based nonholonomic path planning in maze-like environments 2017 , | 1 |
| 27 | A guided search framework in multiple model control 2017 , | 1 |
| 26 | A guidance robot for the visually impaired: System description and velocity reference generation 2014 , | 1 |
| 25 | Kinematic design and analysis for a macaque upper-limb exoskeleton with shoulder joint alignment 2014 , | 1 |
| 24 | Gait phase-based smoothed sliding mode control for a rotary series elastic actuator installed on the knee joint 2010 , | 1 |
| 23 | Six-DOF maglev nano precision microstage development 2010 , | 1 |
| 22 | An Iterative Learning Control design for Self-Servowriting in Hard Disk Drives using L1 optimal control 2009 , | 1 |

| 21 | Suppression of vibration due to transmission error of harmonic drives using peak filter with acceleration feedback 2008 , | | 1 |
|--------------------|---|-----|-------------|
| 20 | Impact of Tire Compliance Behavior to Vehicle Longitudinal Dynamics and Control. <i>Proceedings of the American Control Conference</i> , 2007 , | 1.2 | 1 |
| 19 | Model reference adaptive control for the azimuth-pointing system of a balloon-borne stabilized platform. <i>International Journal of Adaptive Control and Signal Processing</i> , 1991 , 5, 107-120 | 2.8 | 1 |
| 18 | Noncircular Turning of Workpieces With Sharp Corners. <i>Journal of Engineering for Industry</i> , 1990 , 112, 181-183 | | 1 |
| 17 | About This Special Issue. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1979 , 101, 89-90 | 1.6 | 1 |
| 16 | Development of a knee joint assist suit with a velocity-based mechanical safety device (Transient response analysis of the safety device and experiments). <i>Transactions of the JSME (in Japanese)</i> , 2019 , 85, 19-00146-19-00146 | 0.2 | 1 |
| 15 | Long-Term Trajectory Prediction of the Human Hand and Duration Estimation of the Human Action. <i>IEEE Robotics and Automation Letters</i> , 2021 , 1-1 | 4.2 | 1 |
| 14 | Multirate iterative learning control for enhanced motion performance with application to wafer scanner systems 2016 , | | 1 |
| 13 | Control-oriented model of a turbocharged engine airpath with discrete-time considerations 2016, | | 1 |
| | | | |
| 12 | Path-constrained trajectory planning for robot service life optimization 2016 , | | 1 |
| 12 11 | Path-constrained trajectory planning for robot service life optimization 2016 , Precise Correntropy-based 3D Object Modelling With Geometrical Traffic Prior 2019 , | | 1 |
| | | 5.5 | |
| 11 | Precise Correntropy-based 3D Object Modelling With Geometrical Traffic Prior 2019 , Guest Editorial Introduction to the Focused Section on Adaptive Learning and Control for Advanced | 5.5 | 1 |
| 11 | Precise Correntropy-based 3D Object Modelling With Geometrical Traffic Prior 2019 , Guest Editorial Introduction to the Focused Section on Adaptive Learning and Control for Advanced Mechatronics Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-4 SceGene: Bio-Inspired Traffic Scenario Generation for Autonomous Driving Testing. <i>IEEE</i> | | 1 |
| 11 10 9 | Precise Correntropy-based 3D Object Modelling With Geometrical Traffic Prior 2019, Guest Editorial Introduction to the Focused Section on Adaptive Learning and Control for Advanced Mechatronics Systems. IEEE/ASME Transactions on Mechatronics, 2022, 1-4 SceGene: Bio-Inspired Traffic Scenario Generation for Autonomous Driving Testing. IEEE Transactions on Intelligent Transportation Systems, 2021, 1-16 Robust Wide-Range Controller Using Multirate Estimation and Control for Velocity Regulation and | | 1 1 0 |
| 11 10 9 8 | Precise Correntropy-based 3D Object Modelling With Geometrical Traffic Prior 2019, Guest Editorial Introduction to the Focused Section on Adaptive Learning and Control for Advanced Mechatronics Systems. IEEE/ASME Transactions on Mechatronics, 2022, 1-4 SceGene: Bio-Inspired Traffic Scenario Generation for Autonomous Driving Testing. IEEE Transactions on Intelligent Transportation Systems, 2021, 1-16 Robust Wide-Range Controller Using Multirate Estimation and Control for Velocity Regulation and Tracking 1996, 301-314 HIControl Using Linear Parameter Varying Approach for Motion Control Systems Under Communication Delays: Application to PMSM. Journal of Electrical Engineering and Technology, 2020 | 6.1 | 1 1 0 |
| 11 10 9 8 | Precise Correntropy-based 3D Object Modelling With Geometrical Traffic Prior 2019, Guest Editorial Introduction to the Focused Section on Adaptive Learning and Control for Advanced Mechatronics Systems. IEEE/ASME Transactions on Mechatronics, 2022, 1-4 SceGene: Bio-Inspired Traffic Scenario Generation for Autonomous Driving Testing. IEEE Transactions on Intelligent Transportation Systems, 2021, 1-16 Robust Wide-Range Controller Using Multirate Estimation and Control for Velocity Regulation and Tracking 1996, 301-314 HIControl 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 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 | 6.1 | 1 1 0 |

LIST OF PUBLICATIONS

Algorithm for Three-Step Estimation of Transfer Function with Unknown Delay Steps and Order. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2000**, 33, 373-378

| 2 | Series-Parallel and Parallel Identification Schemes for a Class of Continuous Nonlinear Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1977, 99, 137-140 | 1.6 |
|---|--|-----|
| 1 | Development of a new compact and light velocity-based mechanical safety device for a rehabilitation assist suit. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2020 , 14, JAMDSM0101-JAMDSM0101 | 0.6 |