

# Friction Models and Friction Compensation

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Solid Friction Damping of Mechanical Vibrations. AIAA Journal, 1976, 14, 1675-1682.	1.5	496
2	Friction generated limit cycles. , 0, , .		9
3	Popov-like frequency criterion for existence of forced periodic oscillations. , 0, , .		1
4	Friction and friction compensation in the Furuta pendulum. , 1999, , .		7
5	Dynamic model based friction compensation on the Furuta pendulum. , 0, , .		15
6	A nonlinear disturbance observer for two link robotic manipulators. , 0, , .		19
7	Necessary and sufficient conditions for passivity of the lugre friction model 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 2524-2527.	0.4	7
8	Stress analysis of the ring in continuously variable transmission mechanism. Finite Elements in Analysis and Design, 2000, 35, 213-225.	1.7	3
9	Non-Linear Model-Based Throttle Control. , 2000, , .		27
10	Friction compensation control of an electropneumatic servovalve by using an evolutionary algorithm. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2000, 214, 173-184.	0.7	6
11	Adaptive robust control of mechanical systems with nonlinear dynamic friction compensation. , 2000, , .		14
12	Necessary and sufficient conditions for passivity of the LuGre friction model. IEEE Transactions on Automatic Control, 2000, 45, 830-832.	3.6	113
13	A nonlinear disturbance observer for robotic manipulators. IEEE Transactions on Industrial Electronics, 2000, 47, 932-938.	5.2	1,373
14	Tyre model for vehicle simulation: overview and real time solution for critical situations. , 0, , .		6
15	Adaptive pulse control of electronic throttle. , 2001, , .		18
16	Friction generated limit cycles. IEEE Transactions on Control Systems Technology, 2001, 9, 629-636.	3.2	108
17	Mobile manipulator modeling with Kane's approach. Robotica, 2001, 19, 675-690.	1.3	41
18	Nonlinear PI control of uncertain systems: an alternative to parameter adaptation. , 0, , .		4

#	ARTICLE	IF	CITATIONS
19	Modeling and identification of an RRR-robot. , 0, , .		9
20	Simulation of a Vehicle in Longitudinal Motion with Clutch Lock and Clutch Release. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 65-70.	0.4	7
21	Position control of a flexible joint with friction using neural network feedforward inverse models. , 0, , .		0
22	Safe manual control of the Furuta pendulum. , 0, , .		15
23	Adaptive Control of Nonsmooth Dynamic Systems. , 2001, , .		77
24	Closed-form kinematic and dynamic models of an industrial-like RRR robot. , 0, , .		8
25	Robust fuzzy control for a class of nonlinear systems with uncertainty. , 0, , .		1
26	ON FRICTION COMPENSATION WITHOUT FRICTION MODEL. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 457-462.	0.4	0
27	Analysis and model-based control of servomechanisms with friction. , 0, , .		27
28	Crone control of a nonlinear hydraulic actuator. Control Engineering Practice, 2002, 10, 391-402.	3.2	59
29	Nonlinear PI control of uncertain systems: an alternative to parameter adaptation. Systems and Control Letters, 2002, 47, 259-278.	1.3	49
30	Nonlinear H $\infty$ -control of nonsmooth time-varying systems with application to friction mechanical manipulators. Automatica, 2003, 39, 1531-1542.	3.0	50
31	Self-tuning adaptive control for an industrial weigh belt feeder. ISA Transactions, 2003, 42, 437-450.	3.1	11
32	Double-integrator control for precision positioning in the presence of friction. Precision Engineering, 2003, 27, 419-428.	1.8	14
34	Fuzzy pi control design for an industrial weigh belt feeder. IEEE Transactions on Fuzzy Systems, 2003, 11, 311-319.	6.5	68
35	Modeling and Analysis of Micro Hard Disk Drives. , 2003, , .		0
36	Robust fuzzy control of mechanical systems. IEEE Transactions on Fuzzy Systems, 2003, 11, 411-418.	6.5	18
37	Friction state observation in positioning systems using Leunberger observer. , 0, , .		0

#	ARTICLE	IF	CITATIONS
38	Adaptive fuzzy control for a class of uncertain nonlinear systems. , 0, , .		6
39	Kinematic reducibility of multiple model systems. , 0, , .		1
40	Comprehensive modeling of friction in a hard disk drive actuator. , 0, , .		0
41	Nonlinear friction phenomena in direct-drive robotic arms: an experimental set-up for rapid modelling and control prototyping. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 79-84.	0.4	1
42	Nonlinear friction estimation for digital control of direct-drive manipulators. , 2003, , .		14
43	A small low-cost low-weight inspection robot with passive-type locomotion. Integrated Computer-Aided Engineering, 2004, 11, 339-348.	2.5	13
44	Control of an Electromechanical Brake for Automotive Brake-By-Wire Systems with an Adapted Motion Control Architecture. , 0, , .		37
45	Rate loop control based on torque compensation in anti-backlash geared servo system. , 2004, , .		13
46	Mutual Synchronization of Robots via Estimated State Feedback: A Cooperative Approach. IEEE Transactions on Control Systems Technology, 2004, 12, 542-554.	3.2	247
47	Modeling and Identification for High-Performance Robot Control: An RRR-Robotic Arm Case Study. IEEE Transactions on Control Systems Technology, 2004, 12, 904-919.	3.2	83
48	Dynamics and control of an MRI compatible master-slave system with hydrostatic transmission. , 2004, , .		36
49	LIMIT CYCLING IN AN OBSERVER-BASED CONTROLLED SYSTEM WITH FRICTION: NUMERICAL ANALYSIS AND EXPERIMENTAL VALIDATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 3083-3093.	0.7	13
50	Analysis and Model-Based Control of Servomechanisms With Friction. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2004, 126, 911-915.	0.9	40
51	An integral friction model. , 2004, , .		5
52	Precision motion control with a high gain disturbance compensator for linear motors. ISA Transactions, 2004, 43, 399-412.	3.1	17
53	New Cascade Approach for Global<math>\epsilon</math>-Exponential Tracking of Underactuated Ships. IEEE Transactions on Automatic Control, 2004, 49, 2297-2303.	3.6	29
54	Reference model supervisory loop for neural network based adaptive control of a flexible joint with hard nonlinearities. , 0, , .		14
55	Identification and friction compensation for an industrial robot using two degrees of freedom controllers. , 0, , .		5

#	ARTICLE	IF	CITATIONS
56	Friction compensation in low and high-reversal-velocity manipulators. , 2004, , .		11
57	Single and Multistate Integral Friction Models. IEEE Transactions on Automatic Control, 2004, 49, 2292-2297.	3.6	75
58	Observer-based compensation of discontinuous friction. , 2004, , .		19
59	Neural network based model reference adaptive control structure for a flexible joint with hard nonlinearities. , 2004, , .		15
60	Adaptive Robust Fuzzy Control of Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1596-1601.	5.5	76
61	Architectures for Rapid Prototyping of Model-Based Robot Controllers. Springer Tracts in Advanced Robotics, 0, , 101-123.	0.3	0
62	Nonlinear Macro Drive Model Identification for a Macro-Micro Positioning System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 211-216.	0.4	0
63	Friction compensation in a controlled one-link robot using a reduced-order observer. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 889-894.	0.4	2
64	FRICION IDENTIFICATION WITH GENETIC ALGORITHMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 560-565.	0.4	3
65	IMPROVED OPTIMAL CONTROL OF DRY CLUTCH ENGAGEMENT. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 25-30.	0.4	23
66	Non-linear dynamics in servo positioning loops. , 0, , .		1
67	TWO CONTROL LAWS FOR A SPRAY SYSTEM WITH TIME VARYING DELAY AND DEAD BAND. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 86-91.	0.4	1
68	Hybrid Theory Based Time-Optimal Control of an Electronic Throttle. , 2005, , .		6
69	Dynamic identification of the hydraulic Maestro manipulatorâ€™Relevance for monitoring. Fusion Engineering and Design, 2005, 75-79, 559-564.	1.0	8
70	Study of Dynamic Characteristics of Friction: A Comparative Analysis of the Velocity Dependent and the LuGre Friction Model. , 2005, , 1989.		0
71	Improving Contour Accuracy of Machine Tools Using an Integral-Gain Scheduler. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2005, 219, 511-518.	0.7	7
72	Interactive Simulation of rigid body interaction with friction-induced sound generation. IEEE Transactions on Speech and Audio Processing, 2005, 13, 1073-1081.	2.0	39
73	Trajectory generation for four wheeled omnidirectional vehicles. , 0, , .		13

#	ARTICLE	IF	CITATIONS
74	Maxwell Slip Model Based Identification and Control of Systems with Friction. , 0, , .		12
75	Fixed-step friction simulation: from classical Coulomb model to modern continuous models. , 2005, , .		40
76	Friction identification in robotic manipulators: case studies. , 0, , .		3
77	Robust Adaptive Control of Uncertain Nonlinear Systems Using Fuzzy Logic Systems. , 0, , .		4
78	Learning-based identification and iterative learning control of direct-drive robots. IEEE Transactions on Control Systems Technology, 2005, 13, 537-549.	3.2	38
79	Friction Compensation in Robotics: an Overview. , 0, , .		129
80	Precision Pointing Control System Design for the HIRDLS Instrument on EOS-AURA. , 2005, , .		1
81	Polychaete-like Undulatory Robotic Locomotion. , 0, , .		23
83	Integrated Longitudinal and Lateral Tire/Road Friction Modeling and Monitoring for Vehicle Motion Control. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 1-19.	4.7	192
84	Friction Identification and Model-Based Digital Control of a Direct-Drive Manipulator. , 2006, , 231-251.		1
85	FPGA Implementation of a Fuzzy Controller for Neural Network Based Adaptive Control of a Flexible Joint with Hard Nonlinearities. , 2006, , .		4
86	A Cascaded Fuzzy Model of Friction over Large Temperature Variation. , 2006, , .		3
87	Real-time identification of sliding friction using LabVIEW FPGA. , 2006, , .		3
88	Friction compensation in a controlled one-link robot using a reduced-order observer. IEEE Transactions on Control Systems Technology, 2006, 14, 374-383.	3.2	76
89	FPGA Implementation of Neural Network Based Adaptive Control of a Flexible Joint with Hard Nonlinearities. , 2006, , .		0
90	Rapid Prototyping of a Model-Based Control With Friction Compensation for a Direct-Drive Robot. IEEE/ASME Transactions on Mechatronics, 2006, 11, 576-584.	3.7	55
91	Hybrid Neural Fuzzy Sliding Mode Control of Flexible-Joint Manipulators with Unknown Dynamics. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	24
92	Friction compensation in hybrid force/velocity control of industrial manipulators. IEEE Transactions on Industrial Electronics, 2006, 53, 604-613.	5.2	56

#	ARTICLE	IF	CITATIONS
93	Design and Control of YAIP &#x2014; an Inverted Pendulum on Two Wheels Robot. , 2006, , .		20
94	The Stribeck Curve: Experimental Results and Theoretical Prediction. Journal of Tribology, 2006, 128, 789.	1.0	194
95	Static Friction Models for Vehicle Simulation Study. , 2006, , 571.		0
96	Friction Compensation in Hybrid Force/Velocity Control for Contour Tracking Tasks. , 2006, , .		4
97	Design and Control of YAIP - an Inverted Pendulum on Two Wheels Robot. , 2006, , .		10
98	Estimation of Clamp Force in Brake-by-Wire Systems: A Step-by-Step Identification Approach. , 2006, , .		10
99	Simuun: A simulation Environment for Undulatory Locomotion. International Journal of Modelling and Simulation, 2006, 26, 350-358.	2.3	10
100	Nonlinear Identification of Friction Model Using Concave/Convex Parameterization. , 2006, , .		1
101	A comparison between direct and indirect dynamic parameter identification methods in industrial robots. Robotica, 2006, 24, 579-590.	1.3	35
102	An Effective Fuzzy PD Control for High Precision Servo Mechanisms. , 2006, , .		2
103	Application of Differential Evolution in System Identification of Servo-Hydraulic System With a Flexible Load. , 2006, , 241.		1
104	Intelligent compensation of friction, ripple, and hysteresis via a regulated chatter. ISA Transactions, 2006, 45, 419-433.	3.1	5
105	Rest-to-rest Maneuvering of a Nonholonomic Control Moment Gyroscope. , 2006, , .		4
106	Identification of Contact Dynamics Model Parameters From Constrained Robotic Operations. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 307-318.	0.9	18
108	Regular and chaotic oscillations of friction force. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2006, 220, 273-284.	1.1	15
109	Non-linearity evaluation and reduction for serial manipulators. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2006, 220, 283-291.	0.5	7
110	State Observation for Elastoplastic Friction Models in Positioning Systems by Utilizing Leunberger Observers. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2006, 220, 417-426.	0.7	4
111	The design of a friction compensation control architecture for a heavy lift precision manipulator in contact with the environment. , 0, , .		4

#	ARTICLE	IF	CITATIONS
112	State Feedback Tracking of a Nonholonomic Control Moment Gyroscope. , 2006, , .		18
113	Modeling and control of multiple-contact manipulation without modeling friction. , 2006, , .		1
114	The power dissipation method and kinematic reducibility of multiple-model robotic systems. , 2006, 22, 694-710.		15
115	Adaptive friction compensation using the GMS model with polynomial stribeck function. , 2006, , .		3
116	Friction Compensation for Accurate Positioning in DC Drive Tracking System. , 2006, , .		3
117	Model and control of tendon-sheath transmission systems. , 0, , .		67
118	A Sensor Fusion Approach to Estimate Clamp Force in Brake-by-Wire Systems. , 0, , .		7
119	FPGA implementation of learning rate supervisory loop for neural network based adaptive control of a flexible joint. , 2006, , .		4
120	Friction Compensation for a Force-Feedback Teleoperator with Compliant Transmission. , 2006, , .		6
121	Friction compensation for a force-feedback telerobotic system. , 0, , .		29
122	A fast on-line algebraic estimation of a single-link flexible arm applied to GPI control. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	6
123	Predictive Control of Earth Station Antenna with Friction Compensation. , 2006, , .		1
124	Adaptive Estimation of Friction Forces with Fuzzy Basis Function Expansion. , 2006, , .		6
125	Zero Vibration On-Off Position Control of Dual Solenoid Actuator. , 2007, , .		3
126	Adaptive Estimation of Friction Forces under a Sector Condition. , 2007, , .		0
127	An Experimental Study of Grease-Lubricated Journal Bearings Undergoing Oscillatory Motion. Journal of Tribology, 2007, 129, 640-646.	1.0	8
128	Fast identification method to control a flexible manipulator with parameter uncertainties. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	9
129	Adaptive compensation of modeled friction using a RBF neural network approximation. , 2007, , .		8



#	ARTICLE	IF	CITATIONS
130	Sightline Jitter Minimization and Shaping Using Nonlinear Friction Compensation. International Journal of Optomechatronics, 2007, 1, 259-283.	3.3	2
131	Control of Harmonic Drive Motor Actuated Flexible Linkages. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	10
132	Precision Motion Control of Linear Motor Drive Systems for Micro/Nano-Positioning. , 2007, , 1605.		7
133	Design of a flexible centring tooling system. International Journal of Computer Applications in Technology, 2007, 28, 52.	0.3	0
134	Experimental results on output-feedback control of a nonsmooth rotor dynamic system. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 44-48.	0.4	0
135	Kinematic reductions for uncertain mechanical contact. Robotica, 2007, 25, 751-764.	1.3	5
136	A control architecture for a mobile heavy-lift precision manipulator with limited sensory information. Robotica, 2007, 25, 221-235.	1.3	0
137	Multiple Sliding and Rolling Contact Dynamics for a Flexible Rotor/Magnetic Bearing System. IEEE/ASME Transactions on Mechatronics, 2007, 12, 179-189.	3.7	40
138	Design of a Pressure Control System With Dead Band and Time Delay. IEEE Transactions on Control Systems Technology, 2007, 15, 1103-1111.	3.2	14
139	Sliding mode and adaptive control for an underactuated process. , 2007, , .		0
140	FPGA implementation of a hybrid neural fuzzy controller for flexible-joint manipulators with uncertain dynamics. , 2007, , .		1
141	Artificial Neural Network Control of a Flexible-Joint Manipulator Under Unstructured Dynamic Uncertainties. , 2007, , .		1
142	Mechanical Design and Dynamic Modeling of a Two-Wheeled Inverted Pendulum Mobile Robot. , 2007, , .		35
143	Modeling, full identification and control of the mitsubishi PA-10 robot arm. , 2007, , .		36
144	Control of Flexible Manipulators affected by Non-Linear Friction Torque based on the Generalized Proportional Integral Concept. , 2007, , .		4
145	Effects of Longitudinal Skin Stretch on the Perception of Friction. , 2007, , .		15
146	Friction Compensation for Enhancing Transparency of a Teleoperator With Compliant Transmission. , 2007, 23, 1240-1246.		47
147	Polychaete-Like Undulatory Robotic Locomotion in Unstructured Substrates. , 2007, 23, 1200-1212.		27

#	ARTICLE	IF	CITATIONS
148	Geometric Derived Information Spaces in Manipulation with Mechanical Contact. , 2007, , .		0
149	Robust Control Systems of a Heavy Material Handling Agricultural Robot: A Case Study for Initial Cost Problem. IEEE Transactions on Control Systems Technology, 2007, 15, 1038-1048.	3.2	29
150	Hybrid Theory-Based Time-Optimal Control of an Electronic Throttle. IEEE Industrial Electronics Magazine, 2007, 54, 1483-1494.	2.3	118
151	Open-loop algebraic identification method for a DC motor. , 2007, , .		14
152	A Nonlinear Proportional Controller for Electric Parking Brake (EPB) Systems. , 0, , .		10
153	Analysis of undercompensation and overcompensation of friction in 1DOF mechanical systems. Automatica, 2007, 43, 1387-1394.	3.0	57
154	Dynamic simulation of a flexible rotor during drop on retainer bearings. Journal of Sound and Vibration, 2007, 306, 601-617.	2.1	35
155	Generic element formulation for modelling bolted lap joints. Mechanical Systems and Signal Processing, 2007, 21, 2318-2334.	4.4	69
156	Friction Identification and Compensation in Robotic Manipulators. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2346-2353.	2.4	78
157	Multibody dynamics simulation of planar linkages with Dahl friction. Multibody System Dynamics, 2007, 17, 321-347.	1.7	45
158	Bias in hard disk drive rotary actuator pivot bearings: measurements and lubrication phenomena. Microsystem Technologies, 2007, 13, 1377-1382.	1.2	2
159	Identification of dynamic parameters of a 3-DOF RPS parallel manipulator. Mechanism and Machine Theory, 2008, 43, 1-17.	2.7	90
160	Comparison of friction models applied to a control valve. Control Engineering Practice, 2008, 16, 1231-1243.	3.2	89
161	Type-2 Fuzzy Logic Control of a Flexible-Joint Manipulator. Journal of Intelligent and Robotic Systems: Theory and Applications, 2008, 51, 159-186.	2.0	80
162	Experimental characterization and modeling of microsliding on a small cantilever quartz beam. Journal of Sound and Vibration, 2008, 317, 30-49.	2.1	15
163	Nonlinear friction compensation of a 2-DOF planar parallel manipulator. Mechatronics, 2008, 18, 340-346.	2.0	42
164	Application of Differential Evolution in system identification of a servo-hydraulic system with a flexible load. Mechatronics, 2008, 18, 513-528.	2.0	47
165	Linear frictional micro-conveyors. Sensors and Actuators A: Physical, 2008, 148, 290-298.	2.0	6

#	ARTICLE	IF	CITATIONS
166	Application of neural network in suppressing mechanical vibration of a permanent magnet linear motor. Control Engineering Practice, 2008, 16, 787-797.	3.2	36
167	On multiple model control for multiple contact systems. Automatica, 2008, 44, 451-458.	3.0	23
168	Clamp-Force Estimation for a Brake-by-Wire System: A Sensor-Fusion Approach. IEEE Transactions on Vehicular Technology, 2008, 57, 778-786.	3.9	36
169	A design procedure of fuzzy PD control for mechanical systems. , 2008, , .		2
170	Minimization of Frictional Effects in Simulated Pin Joints of Constant Force Compliant Mechanisms. , 2008, , .		0
171	Compliant motion control for a humanoid robot in contact with the environment and humans. , 2008, , .		9
172	Intelligent PID controllers. , 2008, , .		117
173	Adaptive Control for Nonlinearly Parameterized Uncertainties in Robot Manipulators. IEEE Transactions on Control Systems Technology, 2008, 16, 458-468.	3.2	43
174	Adaptive robust control of mechanical systems with non-linear dynamic friction compensation. International Journal of Control, 2008, 81, 167-176.	1.2	85
175	Inertially stabilized platform technology Concepts and principles. IEEE Control Systems, 2008, 28, 26-46.	1.0	367
176	Hybrid Sliding-Mode-Based Control of Underactuated Systems With Dry Friction. IEEE Transactions on Industrial Electronics, 2008, 55, 3998-4003.	5.2	44
177	Electromechanical Brake Modeling and Control: From PI to MPC. IEEE Transactions on Control Systems Technology, 2008, 16, 446-457.	3.2	79
178	Modeling and characterization of a linear piezomotor. , 2008, , .		2
179	Velocity and disturbance observer for non-model based load and friction compensation. , 2008, , .		22
180	Revisiting the LuGre friction model. IEEE Control Systems, 2008, 28, 101-114.	1.0	407
181	Modeling and measuring friction effects. IEEE Control Systems, 2008, 28, 82-91.	1.0	40
182	Adaptive neural fuzzy control for robot manipulator friction and disturbance compensator. , 2008, , .		10
183	Blowing machine for wind musical instrument : toward a real-time control of the blowing pressure. , 2008, , .		11

#	ARTICLE	IF	CITATIONS
184	Identification of the inertial parameters of a humanoid robot using unactuated dynamics of the base link. , 2008, , .		16
185	Hysteretic effects of dry friction: modelling and experimental studies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 747-765.	1.6	161
186	Asymptotic harmonic generator and its application to finite time orbital stabilization of a friction pendulum with experimental verification. International Journal of Control, 2008, 81, 227-234.	1.2	34
187	Parameters identification of a hybrid model for dry friction. , 2008, , .		2
188	Identifiability of the Dynamic Parameters of a Class of Parallel Robots in the Presence of Measurement Noise and Modeling Discrepancy#. Mechanics Based Design of Structures and Machines, 2008, 36, 478-498.	3.4	12
189	Modelling of friction phenomena in sliding conditions in suspension shock absorbers. Vehicle System Dynamics, 2008, 46, 751-764.	2.2	18
190	The Z-properties chart. IEEE Control Systems, 2008, 28, 79-89.	1.0	27
191	Compensating for torsion windup in steerable needles. , 2008, 2008, 936-941.		12
192	A coupling constraint force problem with Coulomb friction between an end effector of a robot and a constraint surface and its solution. , 2008, , .		0
193	Output-feedback control of Lur&#x2019;e-type systems with set-valued nonlinearities: A Popov-criterion approach. , 2008, , .		8
194	The Impact CVT: modelling, simulation and experiments. International Journal of Modelling, Identification and Control, 2008, 3, 286.	0.2	5
195	Identification of the GMS friction model based on a robust adaptive observer. International Journal of Modelling, Identification and Control, 2008, 5, 297.	0.2	11
196	Stability Analysis of an Electric Parking Brake (EPB) System with a Nonlinear Proportional Controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 14247-14253.	0.4	7
197	An Experimental Study of Oil-Lubricated Journal Bearings Undergoing Oscillatory Motion. Journal of Tribology, 2008, 130, .	1.0	9
198	Identification and Control of a Hydraulic Forestry Crane. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 2306-2311.	0.4	8
199	New hybrid model and switched PI observer for dry friction systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7504-7509.	0.4	2
200	Explicit Nonlinear MPC of an Automotive Electromechanical Brake. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 10758-10763.	0.4	4
201	Dynamic Parameter Identification for Parallel Manipulators. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
202	Kinematics and Dynamics of a Master Manipulator. Modern Applied Science, 2009, 3, .	0.4	1
203	Analysis of Postbuckling Drillstring Vibrations in Rotary Drilling of Extended-Reach Wells. , 2009, , .		0
204	Math Model to Simulate Clutch Energy During Vehicle Launch. , 0, , .		6
205	Robust control applied towards Rendezvous and Docking. , 2009, , .		6
206	Fault management for a Three Mass Torsion Oscillator. , 2009, , .		1
207	Tendon-based transmission systems for robotic devices: Models and control algorithms. , 2009, , .		31
208	Modeling and Characterization of a Linear Piezomotor. Journal of Intelligent Material Systems and Structures, 2009, 20, 1913-1921.	1.4	9
209	Multi-rate operational space control of compliant motion in robotic manipulators. , 2009, , .		6
210	Adaptive estimation of friction forces with differential filter. International Journal of Systems Science, 2009, 40, 1263-1271.	3.7	2
211	A Parallel Algorithm for Solving Complex Multibody Problems With Stream Processors. , 2009, , .		2
212	Nonlinear Disturbance Observer Based Impedance Control for a Teleoperation System Under Time Delay. , 2009, , .		0
213	Adaptive Reibkraftkompensation zur modellbasierten Positionsregelung von Nanopositionier- und Nanomeasmaschinen Model Based Position Control of Nanopositioning- and Nanomeasuring Machines Using an Adaptive Friction Cancellation Approach. Automatisierungstechnik, 2009, 57, 51-59.	0.4	1
215	Fingerpad Skin Stretch Increases the Perception of Virtual Friction. IEEE Transactions on Haptics, 2009, 2, 212-223.	1.8	105
216	Modeling and Control of Needles With Torsional Friction. IEEE Transactions on Biomedical Engineering, 2009, 56, 2905-2916.	2.5	85
217	Adaptive Haptic Feedback Steering Wheel for Driving Simulators. IEEE Transactions on Vehicular Technology, 2009, 58, 1654-1666.	3.9	29
218	Open- and closed-loop algebraic identification method for adaptive control of DC motors. International Journal of Adaptive Control and Signal Processing, 2009, 23, 1097-1103.	2.3	12
219	Estimation of Lyapunov exponents for a system with sensitive friction model. Archive of Applied Mechanics, 2009, 79, 667-677.	1.2	10
220	Precision position control of servo systems using adaptive back-stepping and recurrent fuzzy neural networks. Journal of Mechanical Science and Technology, 2009, 23, 3059-3070.	0.7	13

#	ARTICLE	IF	CITATIONS
221	Observer-based direct adaptive fuzzy control of uncertain nonlinear systems and its applications. International Journal of Control, Automation and Systems, 2009, 7, 681-690.	1.6	40
222	Mixed-reality environment for frictional parameters identification in servo-pneumatic system. Simulation Modelling Practice and Theory, 2009, 17, 1575-1586.	2.2	20
223	Oedometric test, Bauer's law and the micro-macro connection for a dry sand. Computer Physics Communications, 2009, 180, 616-620.	3.0	12
224	Control of mechanical motion systems with non-collocation of actuation and friction: A Popov criterion approach for input-to-state stability and set-valued nonlinearities. Automatica, 2009, 45, 405-415.	3.0	93
225	Modeling and control of hydraulic rotary actuators used in forestry cranes. , 2009, , .		23
226	Compliant humanoid robot control by the torque transformer. , 2009, , .		13
227	On the Experiment Design for Direct Dynamic Parameter Identification of Parallel Robots. Advanced Robotics, 2009, 23, 329-348.	1.1	16
228	Intelligent position control of earth station antennas with model independent friction compensation based on MLP neural networks. , 2009, , .		1
229	Design, test and model of a hybrid magnetostrictive hydraulic actuator. Smart Materials and Structures, 2009, 18, 085019.	1.8	34
230	Modeling of a Displacement Amplified Magnetostrictive Actuator for Active Mounts. , 2009, , .		0
231	A Multi-Degree-of-Freedom Rig for the Wind Tunnel Determination of Dynamic Data. , 2009, , .		9
232	Actuator fault estimation and compensation based on an augmented state observer approach. , 2009, , .		27
233	ANN-based adaptive motion and posture control of an inverted pendulum with unknown dynamics. , 2009, , .		3
234	An Adaptive Automated Robotic Task-Practice System for Rehabilitation of Arm Functions After Stroke. IEEE Transactions on Robotics, 2009, 25, 556-568.	7.3	31
235	Current-based wheel slip detection of all-wheel driving vehicle. , 2009, , .		4
236	Torque compensation for angle designation controller using analog rate loop. , 2009, , .		0
237	Lifting objects with a power assist system: Effects of friction between human's hand and object on perceived weight and load force. , 2009, , .		3
238	Impulsive control of a mechanical oscillator with friction. , 2009, , .		8

#	ARTICLE	IF	CITATIONS
239	Analysis of the cyclic motion of asymmetric gait. , 2009, , .		0
240	Adaptive Controller for Single-Link Flexible Manipulators Based on Algebraic Identification and Generalized Proportional Integral Control. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 735-751.	5.5	60
241	ANN-Based Adaptive Control of Robotic Manipulators With Friction and Joint Elasticity. IEEE Transactions on Industrial Electronics, 2009, 56, 3174-3187.	5.2	126
242	A Coupling Constraint Force Problem with Coulomb Friction Between an End Effector of a Robot and a Constraint Surface and Its Solution(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2009, 75, 1664-1670.	0.2	0
243	MODEL-FREE CONTROL AND INTELLIGENT PID CONTROLLERS: TOWARDS A POSSIBLE TRIVIALIZATION OF NONLINEAR CONTROL?. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1531-1550.	0.4	210
244	Improved dynamic identification of robotic manipulators in the linear region of dynamic friction. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 167-172.	0.4	7
245	Dynamic Model of Induced Master Motion in Telerobotics. , 2009, , .		0
246	Friction compensation strategies in large telescopes. , 2010, , .		0
247	Design and modeling of a hydraulically amplified magnetostrictive actuator for automotive engine mounts. , 2010, , .		3
248	High-Precision Regulation of a Pressure Controlled Artificial Mouth: The Case of Recorder-Like Musical Instruments. Acta Acustica United With Acustica, 2010, 96, 701-712.	0.8	16
249	When Stick-slip Hinders Human Positioning Performance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 328-333.	0.4	0
250	Nonlinear Modeling of the VNT Pneumatic Actuator with Aero-dynamic Force. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 518-523.	0.4	4
251	On the Modeling of Quasi-Steady and Unsteady Dynamic Friction in Sliding Lubricated Line Contact. Journal of Tribology, 2010, 132, .	1.0	13
252	Experimental Validation of a Hybrid Electrostrictive Hydraulic Actuator Analysis. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.0	25
253	Energetic Model of the Tire-Ground Interaction and Comparison with LuGre Friction Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 616-621.	0.4	0
254	Modeling and Identification of an Electro-Hydrostatic Actuator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 620-625.	0.4	12
255	Modeling and control of an electro-***mechanical brake-by-wire actuator for a sport motorbike. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 524-531.	0.4	25
256	Model-Based Control of a High-Precision Measurement Machine for Multiscale Inspection Tasks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 545-551.	0.4	1

#	ARTICLE	IF	CITATIONS
257	A new type of clamping force estimator for electromechanical brake systems. , 2010, , .		0
258	A methodology for dynamic parameters identification of 3-DOF parallel robots in terms of relevant parameters. Mechanism and Machine Theory, 2010, 45, 1337-1356.	2.7	52
259	Modeling, parameter estimation and nonlinear control of automotive electronic throttle using a Rapid-Control Prototyping technique. International Journal of Automotive Technology, 2010, 11, 601-610.	0.7	48
260	A Hybrid Control Approach for Non-invasive Medical Robotic Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 60, 83-110.	2.0	6
261	Adaptive fuzzy output-feedback control of uncertain SISO nonlinear systems. Nonlinear Dynamics, 2010, 61, 749-761.	2.7	29
262	Clamping-Force Control for Electromechanical Brake. IEEE Transactions on Vehicular Technology, 2010, 59, 3205-3212.	3.9	70
263	Prediction Friction Modeling and Position Control in an Actuated Rotary Arm. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 131-139.	2.4	9
264	Application of finite element simulations for data reduction of experimental friction tests on rubber-metal contacts. Tribology International, 2010, 43, 785-795.	3.0	12
265	Cartesian Control for Robot Manipulators. , 0, , .		12
266	Parameter Study of Offset Press Cylinder Based on Sliding Friction. Advanced Materials Research, 0, 174, 299-302.	0.3	1
267	Dynamic simulation of a parallel robot: Coulomb friction and stick-slip in robot joints. Robotica, 2010, 28, 35-45.	1.3	19
268	A new approach to the dynamic parameter identification of robotic manipulators. Robotica, 2010, 28, 539-547.	1.3	26
269	Design of tendon-driven robotic fingers: Modeling and control issues. , 2010, , .		22
270	Nonlinear modeling of Electro-pneumatic actuator for Variable Nozzle Turbocharger control. , 2010, , .		6
271	Modeling and identification of a mechatronic exhaust gas recirculation actuator of an internal combustion engine. , 2010, , .		13
272	On methods for automated modeling of dynamic systems with friction and their application to electro-mechanical throttles. , 2010, , .		1
273	ACTIVE CONTROL OF ROLLING MANOEUVRES OF A ROBOTIC FINGER WITH HEMISPHERICAL TIP. International Journal of Humanoid Robotics, 2010, 07, 183-212.	0.6	7
274	An extended friction model to capture load and temperature effects in robot joints. , 2010, , .		38



#	ARTICLE	IF	CITATIONS
275	Friction and visco-elasticity effects in tendon-based transmission systems. , 2010, , .		10
276	Dynamic identification of robots with a dry friction model depending on load and velocity. , 2010, , .		25
277	Verification of Vibration Power Generator Model for Prediction of Harvested Power. Solid State Phenomena, 0, 164, 291-296.	0.3	9
278	Automated Part Centering With Impulse Actuation. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	1.3	0
279	Modeling of a Planar Microrobot Using LuGre Friction Model. , 2010, , .		3
280	Glitchless Static Friction Models in SIMULINK for Vehicle Simulation Study. Journal of Computational and Nonlinear Dynamics, 2010, 5, .	0.7	2
281	A dynamic model for a displacement amplified magnetostrictive driver for active mounts. Smart Materials and Structures, 2010, 19, 055009.	1.8	32
282	Verification of pneumatic railway brake models. Vehicle System Dynamics, 2010, 48, 283-299.	2.2	26
283	Fuzzy logic and observer based fault detection for a mechatronic actuator. , 2010, , .		4
284	Friction compensation as a fault-tolerant control problem. International Journal of Systems Science, 2010, 41, 987-1001.	3.7	33
285	Adaptive composite control of electronic throttle using local learning method. , 2010, , .		4
286	Identifier-Based Adaptive Robust Control for Servomechanisms With Improved Transient Performance. IEEE Transactions on Industrial Electronics, 2010, 57, 2536-2547.	5.2	35
287	An LPV pole-placement approach to friction compensation as an FTC problem. , 2010, , .		2
288	Second-order sliding mode based output-feedback control of an engine air path actuator in presence of uncertainties. , 2010, , .		8
289	Algebraic parameters identification of DC motors: methodology and analysis. International Journal of Systems Science, 2010, 41, 1241-1255.	3.7	23
290	Stabilization of the Experimental Cartâ€“Pendulum System with Proven Domain of Attraction. European Journal of Control, 2010, 16, 329-340.	1.6	13
291	Nonlinear modeling of Pancake DC Limited Angle Torque Motor based on LuGre friction model. , 2010, , .		10
292	Brownian motion with dry friction: Fokkerâ€“Planck approach. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 445002.	0.7	63

#	ARTICLE	IF	CITATIONS
293	An $\infty$ LPV Design for Sampling Varying Controllers: Experimentation With a T-Inverted Pendulum. IEEE Transactions on Control Systems Technology, 2010, 18, 741-749.	3.2	48
294	Sensitivity analysis of LuGre friction model for pneumatic actuator control. , 2010, , .		3
295	LPV approach to friction estimation as a fault diagnosis problem. , 2010, , .		2
296	A novel approach to deal with temperature dependence of friction in mechanical control systems. , 2010, , .		1
297	Interaction control for a brake actuated manipulator. , 2010, , .		0
298	Modeling and Passivity-Based Control of the Pierburg mechatronic actuator. , 2010, , .		9
299	Vibration rejection for inertially stabilized double gimbal platform using acceleration feedforward. , 2011, , .		12
300	Adaptive control of robotic servo system with friction compensation. , 2011, , .		4
301	New dry friction model with load- and velocity-dependence and dynamic identification of multi-DOF robots. , 2011, , .		23
302	Modeling of a snake-like robot rectilinear motion and requirements for its actuators. , 2011, , .		6
303	Structural stability of equilibrium sets for a class of discontinuous vector fields. , 2011, , .		0
304	Dynamic emulation of road/tyre longitudinal interaction for developing electric vehicle control systems. Vehicle System Dynamics, 2011, 49, 433-447.	2.2	20
305	Comparison of methods for estimation and compensation of friction applied to an inverted pendulum. , 2011, , .		3
306	Smooth control action of sliding mode for a class of electro-hydraulic actuator. , 2011, , .		3
307	An experimental comparative study of different second order sliding mode algorithms on a mechatronic actuator. , 2011, , .		1
308	Position and torque tracking: Series elastic actuation versus model-based-controlled hydraulic actuation. , 2011, 2011, 5975456.		3
309	Robust control and modeling a 2-DOF Inertial Stabilized Platform. , 2011, , .		37
310	A novel acceleration profile for the motion control of capsulobots. , 2011, , .		13

#	ARTICLE	IF	CITATIONS
311	Modeling and backstepping-based control of an electromechanical actuator. , 2011, , .		1
312	High Precision BLDCM Servo Control with Nonlinear Identification. Lecture Notes in Electrical Engineering, 2011, , 761-768.	0.3	0
313	Composite Controller for Electronic Automotive Throttle with Self-tuning Friction Compensator. , 2011, , 73-78.		2
314	A modeling approach for continuum robotic manipulators: Effects of nonlinear internal device friction. , 2011, , .		63
315	High Order Sliding Mode Control for Suppression of Nonlinear Dynamics in Mechanical Systems with Friction. , 2011, , .		0
316	Model-Based Throttle Control using Static Compensators and Pole Placement. Oil and Gas Science and Technology, 2011, 66, 717-727.	1.4	15
317	On the Application of the Lu-Gre Model to Simulate Joint Friction in Multi-Body Systems. , 2011, , .		0
318	A Computational Model for Frictional Effects Applied To Dexterous Hands with Soft Pads. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1072-1077.	0.4	0
319	A Novel Friction-Identification Method using Sliding-Mode Observer and Its Application to Electro-Mechanical Throttles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4803-4808.	0.4	1
320	Efficient simulation of Static and Dynamic friction for Automotive Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2132-2137.	0.4	0
321	Control of the Electro-pneumatic VGT Actuator with Friction Compensators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9757-9762.	0.4	2
322	Towards developing a human-friendly power assist robot for manipulating heavy objects: special focus on manoeuvrability and object's surface friction. International Journal of Biomechanics and Biomedical Robotics, 2011, 1, 191.	0.1	2
323	Hydraulically Amplified Terfenol-D Actuator for Adaptive Powertrain Mounts. Journal of Vibration and Acoustics, Transactions of the ASME, 2011, 133, .	1.0	11
324	Model-based boost pressure control with system voltage disturbance rejection. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5058-5063.	0.4	3
325	Modelling and Motion Control of a Novel Double Parallel Mass Capsbot. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8120-8125.	0.4	3
326	Modeling and Nonlinear Control of The Pierburg Inlet Swirl Actuator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8108-8113.	0.4	2
327	State observation and friction estimation in engine air path actuator using higher order sliding mode observers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7480-7485.	0.4	1
328	Novel clamping force control for electric parking brake systems. Mechatronics, 2011, 21, 1156-1162.	2.0	20

#	ARTICLE	IF	CITATIONS
329	Adaptive robust control for DC motors with input saturation. IET Control Theory and Applications, 2011, 5, 1895-1905.	1.2	23
330	Torque Transmissibility Assessment for Automotive Dry-Clutch Engagement. IEEE/ASME Transactions on Mechatronics, 2011, 16, 564-573.	3.7	148
331	Modeling the dynamics of mechanical joints. Mechanical Systems and Signal Processing, 2011, 25, 2801-2826.	4.4	203
332	Multivariable predictive control for vibrating structures: An application. Control Engineering Practice, 2011, 19, 1087-1098.	3.2	31
333	Adaptive control of straight worms without derivative measurement. Multibody System Dynamics, 2011, 26, 213-243.	1.7	20
334	Growth of the chorioallantoic membrane into a rapid-prototyped model pore system: experiments and mathematical model. Biomechanics and Modeling in Mechanobiology, 2011, 10, 539-558.	1.4	2
335	Self-contained capsbot propulsion mechanism. International Journal of Automation and Computing, 2011, 8, 348-356.	4.5	8
336	Interconnection and damping assignment passivity-based control of a class of underactuated mechanical systems with dynamic friction. International Journal of Robust and Nonlinear Control, 2011, 21, 738-751.	2.1	30
337	Frequency analysis and experimental validation for stiction phenomenon in multi-loop processes. Journal of Process Control, 2011, 21, 437-447.	1.7	14
338	A modified low-cost haptic interface as a tool for complex tactile stimulation. Medical Engineering and Physics, 2011, 33, 386-390.	0.8	11
339	Modeling identification and simulation of pneumatic actuator for VGT system. Sensors and Actuators A: Physical, 2011, 165, 367-378.	2.0	30
340	Investigation of non-Coulomb friction behaviour in reciprocating sliding. Wear, 2011, 271, 802-816.	1.5	49
341	An analytical model of dissipated viscous and hysteretic energy due to interaction forces in a pneumatic tire: Theory and experiments. Mechanical Systems and Signal Processing, 2011, 25, 2785-2795.	4.4	14
342	Wet granular walkers and climbers. New Journal of Physics, 2011, 13, 053041.	1.2	4
343	Real Stiffness Augmentation for Haptic Augmented Reality. Presence: Teleoperators and Virtual Environments, 2011, 20, 337-370.	0.3	34
344	Model-based friction compensation scheme for the linear inverted pendulum. , 2011, , .		1
345	Fundamental limits in combine harvester header height control. , 2011, , .		1
346	Balance control of ball-beam system using redundant manipulator. , 2011, , .		9

#	ARTICLE	IF	CITATIONS
347	Computational model of conventional engine mounts for commercial vehicles: validation and application. <i>Vehicle System Dynamics</i> , 2011, 49, 761-787.	2.2	10
348	Modeling of a gyro-stabilized helicopter camera system using artificial neural networks. , 2011, , .		3
349	A distributed model for needle-tissue friction in percutaneous interventions. , 2011, , .		22
350	Modeling and PI-Fuzzy logic controller of the Pierburg mechatronic actuator. , 2011, , .		0
351	Motion and balance neural control of inverted pendulums with nonlinear friction and disturbance. , 2011, , .		8
352	A sudden-release bristle model that exhibits hysteresis and stick-slip friction. , 2011, , .		5
353	Wind Tunnel Testing of a Helicopter Rotor Trailing Edge Flap Actuated via Pneumatic Artificial Muscles. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1513-1528.	1.4	41
354	Design and Simulation on Multi-Digit Numerical Control Valve in Water Hydraulics. <i>Advanced Materials Research</i> , 2011, 422, 257-261.	0.3	0
355	Frictional Effects in a Low Speed Polar-Axis Solar Tracker. <i>Advanced Materials Research</i> , 2011, 367, 487-494.	0.3	0
356	Parameter varying control of an MR damper for smart base isolation. , 2011, , .		3
357	Friction Hysteresis Modeling and Force Control in a Constrained Single-link Arm. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2011, 133, .	0.9	2
358	Coupled axisymmetric finite element model of a magneto-hydraulic actuator for active engine mounts. , 2011, , .		0
360	Overview on modeling of systems with friction: Application to diesel engine actuator. , 2011, , .		4
361	Tensor product based control of the Single Pendulum Gantry process with stable neural network based friction compensation. , 2011, , .		8
362	Friction compensation and virtual force sensing for robotic hands. , 2011, , .		13
363	Robust Modeling of the Rocking Problem. <i>Journal of Engineering Mechanics - ASCE</i> , 2012, 138, 247-262.	1.6	61
364	Haptics for Virtual Reality and Teleoperation. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2012, , .	0.3	35
365	Self-organizing input space for control of structures. <i>Smart Materials and Structures</i> , 2012, 21, 115015.	1.8	21

#	ARTICLE	IF	CITATIONS
366	Impedance Control for Legged Robots: An Insight Into the Concepts Involved. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1400-1411.	3.3	25
367	Surface material recognition through haptic exploration using an intelligent contact sensing finger. , 2012, , .		57
368	Simulation of tactile sensors using soft contacts for robot grasping applications. , 2012, , .		7
369	Dynamical collapse of trajectories. Europhysics Letters, 2012, 98, 20001.	0.7	1
370	Cascaded second order sliding mode observer for state and friction dynamics of a control valve. , 2012, , .		2
371	Experimental inverted pendulum unfalsified control. , 2012, , .		1
372	Modelling of the pendulum-driven cart system with friction. , 2012, , .		0
373	Position tracking of the VGT single acting pneumatic actuator with 2nd order SMC and backstepping control techniques. , 2012, , .		0
374	Friction modelling and simulation at system level: a practical view for the designer. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2012, 226, 728-741.	0.7	13
375	INTERACTIVE DYNAMIC SIMULATOR FOR MULTIBODY SYSTEMS. International Journal of Humanoid Robotics, 2012, 09, 1250021.	0.6	5
376	Electro-hydraulically actuated forestry manipulator: Modeling and Identification. , 2012, , .		7
377	Joint torque servo of a high friction robot manipulator based on time-delay control with feed-forward friction compensation. , 2012, , .		6
378	Modeling of 3D Magnetostrictive Systems with Application to Galfenol and Terfenol-D Actuators. Advances in Science and Technology, 0, , .	0.2	5
379	Static Friction in a Robot Jointâ€”Modeling and Identification of Load and Temperature Effects. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	63
380	Numerical Simulation of Well Trajectory While Drilling Isotropic and Anisotropic Formations. , 2012, , .		3
381	Identification of An Engine Air Path Actuator With LuGre Friction Model*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 243-248.	0.4	2
382	An LPV pole-placement approach to friction compensation as an FTC problem. International Journal of Applied Mathematics and Computer Science, 2012, 22, 149-160.	1.5	18
383	Modeling, Identification, and Control of Tendon-Based Actuation Systems. IEEE Transactions on Robotics, 2012, 28, 277-290.	7.3	135

#	ARTICLE	IF	CITATIONS
384	Adaptive neural network control of flexible-joint robotic manipulators with friction and disturbance. , 2012, , .		4
385	From Traditional to Fractional PI Control: A Key for Generalization. IEEE Industrial Electronics Magazine, 2012, 6, 41-51.	2.3	76
386	Longitudinal dynamics of trainsâ€”a non-smooth approach. Nonlinear Dynamics, 2012, 70, 1095-1106.	2.7	17
387	Linear Parameter-Varying Modeling for Gain-Scheduling Robust Control Synthesis of Flexible Joint Industrial Robot. Procedia Engineering, 2012, 41, 838-845.	1.2	8
388	Improving the dynamic accuracy of elastic industrial robot joint by algebraic identification approach. , 2012, , .		5
389	Second-order sliding mode controllers: an experimental comparative study on a mechatronic actuator. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2012, 226, 1231-1248.	0.7	0
390	A framework for sensorless torque estimation and control in wearable exoskeletons. , 2012, , .		37
391	Comparative study on friction compensation using Coulomb and Dahl models with extended and unscented Kalman filters. , 2012, , .		4
392	Identifying and presenting friction properties of materials using a haptic robot. , 2012, , .		2
393	Influence of static friction and stick-slip phenomena on control quality of SMPM. , 2012, , .		0
394	An investigation on the design and performance assessment of double-PID and LQR controllers for the inverted pendulum. , 2012, , .		24
395	Synthesis and control of an assistive robotic tennis trainer. , 2012, , .		14
396	Perfect tracking control of an electro-hydraulic actuator with unknown disturbances. , 2012, , .		1
397	Identification of mechanical parameters at low velocities for a micropositioning stage using a velocity hysteresis model. , 2012, , .		2
398	Sliding mode observer based adaptive control of a VGT single acting pneumatic actuator. , 2012, , .		1
399	An extended bristle friction force model with experimental validation. Mechanism and Machine Theory, 2012, 56, 123-137.	2.7	49
400	Coupled axisymmetric finite element model of a hydraulically amplified magnetostrictive actuator for active powertrain mounts. Finite Elements in Analysis and Design, 2012, 60, 25-34.	1.7	26
401	Identification and Control of an MR Damper With Stiction Effect and its Application in Structural Vibration Mitigation. IEEE Transactions on Control Systems Technology, 2012, 20, 1285-1301.	3.2	28

#	ARTICLE	IF	CITATIONS
402	Compact hybrid electrohydraulic actuators using smart materials: A review. Journal of Intelligent Material Systems and Structures, 2012, 23, 597-634.	1.4	49
403	Sliding mode tracking control of a very lightweight single-link flexible robot robust to payload changes and motor friction. JVC/Journal of Vibration and Control, 2012, 18, 1141-1155.	1.5	39
404	Current sensorless control of a PMDC motor using Kalman filter and cascaded PID controller. , 2012, , .		4
405	Bifurcations of equilibrium sets in mechanical systems with dry friction. Physica D: Nonlinear Phenomena, 2012, 241, 1882-1894.	1.3	14
406	Bifurcations of piecewise smooth flows: Perspectives, methodologies and open problems. Physica D: Nonlinear Phenomena, 2012, 241, 1845-1860.	1.3	92
407	Theoretical Analysis of Friction Compensation Using Sliding Mode Control. Applied Mechanics and Materials, 0, 229-231, 2385-2388.	0.2	2
409	Mechatronics. , 2012, , .		2
410	Feed-forward friction and inertia compensation for improving backdrivability of motors. , 2012, , .		12
411	Comparison of various active impedance control approaches, modeling, implementation, passivity, stability and trade-offs. , 2012, , .		38
412	Dynamic analysis of planar multi-body systems with LuGre friction at differently located revolute clearance joints. Multibody System Dynamics, 2012, 28, 369-393.	1.7	102
413	Dynamic simulation of six-legged robots with a focus on joint friction. Multibody System Dynamics, 2012, 28, 395-417.	1.7	11
414	Mathematical Formulation of Dynamic Automotive Clutch Damper. , 2012, , .		0
415	An Efficient Multi-Body Approach Modeling Elastohydrodynamic Friction in Drive Systems. , 0, , .		0
416	Robust impulsive control of motion systems with uncertain friction. International Journal of Robust and Nonlinear Control, 2012, 22, 369-397.	2.1	23
417	Modified friction device for control of large-scale systems. Structural Control and Health Monitoring, 2012, 19, 548-564.	1.9	30
418	A control system for automated multiscale measuring systems. Mechatronics, 2012, 22, 338-348.	2.0	14
419	Analysis, modeling, identification and control of pancake DC torque motors: Application to automobile air path actuators. Mechatronics, 2012, 22, 195-212.	2.0	18
420	Screening of the factors influencing frictional interactions between a cylindrical tip and the cardiac wall using factorial analysis. Tribology International, 2012, 48, 63-72.	3.0	0



#	ARTICLE	IF	CITATIONS
421	Slow-motion control of an unloaded hydraulic robot arm. Precision Engineering, 2012, 36, 388-398.	1.8	7
422	Friction of sea ice on sea ice. Cold Regions Science and Technology, 2013, 94, 1-12.	1.6	35
423	Half-Joint Arthroplasty. , 2013, , 1607-1607.		0
424	A Multistate Friction Model Described by Continuous Differential Equations. Tribology Letters, 2013, 51, 513-523.	1.2	14
425	HA " Hydroxyapatite. , 2013, , 1607-1607.		0
426	Model-free control. International Journal of Control, 2013, 86, 2228-2252.	1.2	693
427	Two-state dynamic friction model with elasto-plasticity. Mechanical Systems and Signal Processing, 2013, 39, 316-332.	4.4	48
428	Nonlinear dynamic compensation for large-feedback control of a servomechanism with multiple nonlinearities. Control Engineering Practice, 2013, 21, 1531-1541.	3.2	4
429	Rigid Body, Flexible Body, and Micro Electromechanical Systems. , 2013, , 281-433.		0
430	Electronic throttle identification and modeling. , 2013, , .		2
431	Preliminary Friction Force Measurements on Small Bowel Lumen When Eliminating Sled Edge Effects. Tribology Letters, 2013, 51, 377-383.	1.2	14
432	Position Control of Electro-hydraulic Actuator System Using Fuzzy Logic Controller Optimized by Particle Swarm Optimization. International Journal of Automation and Computing, 2013, 10, 181-193.	4.5	43
433	Modeling and validation of a boost pressure actuation system, for a series sequentially turbocharged SI engine. Control Engineering Practice, 2013, 21, 1860-1870.	3.2	13
434	Design of Networked Control Systems Using Passivity. IEEE Transactions on Control Systems Technology, 2013, 21, 649-665.	3.2	38
435	Low-speed friction compensation of reaction wheels using command shaping. , 2013, , .		0
436	Friction modeling and identification for industrial manipulators. , 2013, , .		13
437	Model-Based Control of a 3-DOF Parallel Robot Based on Identified Relevant Parameters. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1737-1744.	3.7	54
438	The effect of haptic guidance and visual feedback on learning a complex tennis task. Experimental Brain Research, 2013, 231, 277-291.	0.7	76

#	ARTICLE	IF	CITATIONS
439	Closed-Loop Quantification and Compensation of Friction in an Inverted Pendulum. Journal of Control, Automation and Electrical Systems, 2013, 24, 794-805.	1.2	3
441	Modelling and control of robotic joints based on sliding pairs. , 2013, , .		0
442	Sliding mode control with switching-gain adaptation based-disturbance observer applied to an electro-hydraulic actuator system. , 2013, , .		3
443	Clamping Force Control for an Electric Parking Brake System: Switched System Approach. IEEE Transactions on Vehicular Technology, 2013, 62, 2937-2948.	3.9	15
444	LuGre friction model identification and compensator tuning using a Differential Evolution algorithm. , 2013, , .		7
445	Bench tests on friction compensation enhanced H&L;SUB align="right"&gt;&amp;infin; control for MIMO magnetic levitation system. International Journal of Modelling, Identification and Control, 2013, 19, 361.	0.2	3
446	Estimation of systems with multiple sliding surfaces. , 2013, , .		0
447	Adaptive Robust Control of Servo Mechanisms With Compensation for Nonlinearly Parameterized Dynamic Friction. IEEE Transactions on Control Systems Technology, 2013, 21, 194-202.	3.2	22
448	On Low-Velocity Compensation of Brushless DC Servo in the Absence of Friction Model. IEEE Transactions on Industrial Electronics, 2013, 60, 3897-3905.	5.2	65
449	Computationally Efficient Adaptive Type-2 Fuzzy Control of Flexible-Joint Manipulators. Robotics, 2013, 2, 66-91.	2.1	25
450	Multi-Degree-of-Freedom Wind-Tunnel Maneuver Rig for Dynamic Simulation and Aerodynamic Model Identification. Journal of Aircraft, 2013, 50, 551-566.	1.7	36
451	Alternative friction models for braking train dynamics. Vehicle System Dynamics, 2013, 51, 460-480.	2.2	38
453	Evaluation of a servo settling algorithm. Precision Engineering, 2013, 37, 10-22.	1.8	13
454	Model of tactile sensors using soft contacts and its application in robot grasping simulation. Robotics and Autonomous Systems, 2013, 61, 1-12.	3.0	18
455	Aspects of Computational Intelligence: Theory and Applications. Topics in Intelligent Engineering and Informatics, 2013, , .	0.4	4
456	Inertial parameter identification including friction and motor dynamics. , 2013, , .		12
457	Fundamental Limits in Combine Harvester Header Height Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, 345031-345038.	0.9	28
458	Evaluation of Friction Models for Haptic Devices. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
459	Passive Dynamic Biped Walkingâ€”Part I: Development and Validation of an Advanced Model. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	0.7	31
460	Estimating the patientâ€™s contribution during robot-assisted therapy. Journal of Rehabilitation Research and Development, 2013, 50, 379.	1.6	16
461	A friction model for dynamic analyses of multi-body systems with a fully functional friction clutch. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2013, 227, 89-105.	0.5	8
462	Modeling the Frictional Interaction in the Tendon-Pulley System of the Human Finger for Use in Robotics. Artificial Life, 2013, 19, 149-169.	1.0	7
463	Estimating Friction Parameters in Reaction Wheels for Attitude Control. Mathematical Problems in Engineering, 2013, 2013, 1-8.	0.6	13
464	Non-Linear Full-Car Modeling and Sky-Hook Control for a Direct-Drive Active Suspension System. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 6, 252-268.	0.4	10
465	Compensations of the Discontinuous Nonlinearities in the Independent Joints Control of an Articulated Robot. Applied Mechanics and Materials, 0, 430, 135-142.	0.2	0
466	Footâ€™s terrain interaction mechanics for legged robots: Modeling and experimental validation. International Journal of Robotics Research, 2013, 32, 1585-1606.	5.8	119
467	Overview of the modelling techniques of actuator non-linearities in the engine air path. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2013, 227, 443-454.	1.1	2
468	GMS friction compensation in robot manipulator. , 2013, , .		5
469	Estimation of discontinuous friction using continuous-discrete unscented Kalman filter for adaptive compensation. , 2013, , .		2
470	Robotic force estimation using motor torques and modeling of low velocity friction disturbances. , 2013, , .		37
471	Simple definition of adequate fixed time-step size of Szabad(ka)-II robot model. , 2013, , .		5
472	Adaptive friction compensation of flexible-joint manipulators with parametric uncertainties. , 2013, , .		3
473	Nonlinear Control Algorithm for Improving Settling Time in Systems With Friction. IEEE Transactions on Control Systems Technology, 2013, 21, 1365-1373.	3.2	17
474	Study on sensorless force control based on disturbance observer with friction force compensation. , 2013, , .		0
475	An optical joint position sensor for anthropomorphic robot hands. , 2013, , .		3
476	Relation Between End-Effector Impedance and Joint Friction of Statically-Balanced Mechanisms. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
477	Automated Identification of a Mechatronic System Model Using Genetic Programming and Bond Graphs. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	0.9	4
478	Development of an Advanced Model of Passive Dynamic Biped Walking. , 2013, , .		0
479	Sway Estimation using Inertial Measurement Units for Cranes with a Rotating Tool. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 274-279.	0.4	5
480	A state observer for using a slow camera as a sensor for fast control applications. Proceedings of SPIE, 2013, , .	0.8	0
481	Nonlinear dynamic modeling for smart material electro-hydraulic actuator development. , 2013, , .		1
482	Friction compensation in a Diesel engine electromechanical actuator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 117-122.	0.4	0
483	Adaptive friction compensation for a position control system with Stribeck friction using hybrid unscented Kalman filter. International Journal of Information and Communication Technology, 2013, 5, 283.	0.1	1
484	A Comparative Study of Friction Estimation and Compensation Using Extended, Iterated, Hybrid, and Unscented Kalman Filters. , 2013, , .		1
485	FUNDAMENTAL STUDY ON CONTROL EFFECT OF TMD FLOOR SYSTEM UNDER SEISMIC EXCITATION. Journal of Structural and Construction Engineering, 2013, 78, 2093-2101.	0.2	4
487	PD-SVM Integrated Controller for Robotic Manipulator Tracking Control. Chinese Journal of Engineering, 2014, 2014, 1-6.	1.0	0
488	Real-time multibody application for tree harvester truck simulator. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2014, 228, 182-198.	0.5	13
489	The Control Method Research for Piston Stop Position of the GDI Engine. International Journal of Control and Automation, 2014, 7, 267-276.	0.3	2
490	Observer based friction cancellation in mechanical systems. , 2014, , .		3
491	Analysis of non-intrusive efficiency estimation of induction machines compared to the IEEE 112B and IEC 34-2-1 standards. , 2014, , .		3
492	Friction identification and control for Chinese large-scale space end-effector's dragging subsystem. , 2014, , .		0
493	Prediction of Drive Torque in Hydraulic Wheel Loader. , 2014, , .		0
494	Nonlinear System Identification and Modeling of a New Fatigue Testing Rig Based on Inertial Forces. Journal of Vibration and Acoustics, Transactions of the ASME, 2014, 136, .	1.0	6
495	Impedance Control Based on a Position Sensor in a Rehabilitation Robot. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
496	Joint space torque controller based on time-delay control with collision detection. , 2014, , .		4
497	Performance verification of the DKIST Mount and CoudA© Laboratory. , 2014, , .		1
498	An hydraulic test rig for the testing of quarter turn valve actuation systems. , 2014, , .		6
499	Constrained control of the synchromesh operating state in an electric vehicle's clutchless automated manual transmission. , 2014, , .		7
500	Precise angle control of DC motor system based on variable structure control. , 2014, , .		2
501	Nondeterministic dynamics of a mechanical system. Physical Review E, 2014, 90, 022914.	0.8	9
502	Reshaping the physical properties of a quadrotor through IDA-PBC and its application to aerial physical interaction. , 2014, , .		44
503	Dry Friction Contribution to Damageâ€Caused Increase of Damping in Fiberâ€Reinforced Polymerâ€Based Composites. Advanced Engineering Materials, 2014, 16, 1284-1292.	1.6	19
504	Contact force estimation for robotic assembly using motor torques. , 2014, , .		25
505	Modeling and control of robotic surgical platform for single-port access surgery. , 2014, , .		26
506	Linear Modelâ€Based Feedforward Control for Improving Trackingâ€Performance of Linear Motors. Asian Journal of Control, 2014, 16, 1602-1611.	1.9	4
507	On the estimation of systems with discontinuities using continuous-discrete unscented Kalman filter. , 2014, , .		2
508	Solitary waves in a chain of repelling magnets. Journal of Applied Physics, 2014, 115, .	1.1	46
509	Friction identification and control for Chinese large-scale space end-effector. , 2014, , .		0
510	Fixed step clutch modeling and simulation for automotive real-time applications. , 2014, , .		10
511	Increasing the Level of Automation in the Forestry Logging Process with Crane Trajectory Planning and Control. Journal of Field Robotics, 2014, 31, 343-363.	3.2	61
512	Current and Speed Control Operating Modes of a Reaction Wheel. Applied Mechanics and Materials, 2014, 706, 170-180.	0.2	3
513	Robust nonlinear observer design for twin rotor control system. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
514	Modeling, simulation and validation of material flow on conveyor belts. Applied Mathematical Modelling, 2014, 38, 3295-3313.	2.2	51
515	Friction modeling, identification, and compensation based on friction hysteresis and Dahl resonance. Mechatronics, 2014, 24, 734-741.	2.0	60
516	Force-torque Control Implementation for 2 DoF Manipulator. Procedia Engineering, 2014, 69, 1232-1241.	1.2	5
517	Adaptive Prescribed Performance Motion Control of Servo Mechanisms with Friction Compensation. IEEE Transactions on Industrial Electronics, 2014, 61, 486-494.	5.2	429
518	Modeling planar slider-crank mechanisms with clearance joints in RecurDyn. Multibody System Dynamics, 2014, 31, 127-145.	1.7	77
519	Robust Position Tracking Control of an Electro-Hydraulic Actuator in the Presence of Friction and Internal Leakage. Arabian Journal for Science and Engineering, 2014, 39, 2965-2978.	1.1	20
520	Pressure and Friction Observer-Based Backstepping Control for a VGT Pneumatic Actuator. IEEE Transactions on Control Systems Technology, 2014, 22, 456-467.	3.2	20
521	Seismic vibration control of building structures with multiple tuned mass damper floors integrated. Earthquake Engineering and Structural Dynamics, 2014, 43, 909-925.	2.5	68
522	Absolutely stable model-based 2-port force controller for telerobotic applications. International Journal of Robotics Research, 2014, 33, 847-865.	5.8	6
523	Advanced H $\infty$ Control. Systems and Control: Foundations and Applications, 2014, , .	0.1	36
524	Control of a DC motor using algebraic derivative estimation with real time experiments. Measurement: Journal of the International Measurement Confederation, 2014, 47, 401-417.	2.5	24
525	On the velocity-strengthening behavior of dry friction. Journal of Geophysical Research: Solid Earth, 2014, 119, 1738-1748.	1.4	75
526	Advances in Condition Monitoring of Machinery in Non-Stationary Operations. Lecture Notes in Mechanical Engineering, 2014, , .	0.3	11
527	From Robot to Human Grasping Simulation. Cognitive Systems Monographs, 2014, , .	0.1	19
528	Design, dynamic modelling and experimental validation of a 2DOF flexible antenna sensor. International Journal of Systems Science, 2014, 45, 714-727.	3.7	9
529	Friction compensation for a force controlled electric actuator with unknown sinusoidal disturbance motion. , 2014, , .		0
530	Modeling, Detection and Quantification, and Compensation of Stiction in Control Loops: The State of the Art. Industrial & Engineering Chemistry Research, 2014, 53, 15020-15040.	1.8	37
531	Transient dynamic behaviour of finite element tire traversing obstacles with different heights. Journal of Terramechanics, 2014, 56, 1-16.	1.4	53

#	ARTICLE	IF	CITATIONS
532	Bifurcation in rolling of non-spherical grains and fluctuations in macroscopic friction. <i>Acta Mechanica</i> , 2014, 225, 2217-2226.	1.1	7
533	Dynamics of Translational Friction in Needle-Tissue Interaction During Needle Insertion. <i>Annals of Biomedical Engineering</i> , 2014, 42, 73-85.	1.3	43
534	Identification of a process with control valve stiction using a fuzzy system: A data-driven approach. <i>Journal of Process Control</i> , 2014, 24, 249-260.	1.7	10
535	Compliant Motion Control for Multisegment Continuum Robots With Actuation Force Sensing. <i>IEEE Transactions on Robotics</i> , 2014, 30, 890-902.	7.3	99
536	Adaptive position-pressure control of a brake by wire actuator for sport motorcycles. <i>European Journal of Control</i> , 2014, 20, 79-86.	1.6	53
537	Friction compensation techniques for tendon-driven robotic hands. <i>Mechatronics</i> , 2014, 24, 108-117.	2.0	29
538	An investigation of friction-based tendon sheath model appropriate for control purposes. <i>Mechanical Systems and Signal Processing</i> , 2014, 42, 97-114.	4.4	71
539	Experimental benchmark of a free plunging wing with imposed flap oscillations. <i>Journal of Fluids and Structures</i> , 2014, 49, 338-359.	1.5	2
540	Design and Implementation of Model-Predictive Control With Friction Compensation on an Omnidirectional Mobile Robot. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 467-476.	3.7	92
541	Driving State Adaptive Control of an Active Vehicle Suspension System. <i>IEEE Transactions on Control Systems Technology</i> , 2014, 22, 44-57.	3.2	72
542	Dynamic friction modelling without drift and its application in the simulation of a valve controlled hydraulic cylinder system. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2014, 8, JAMDSM0075-JAMDSM0075.	0.3	3
543	Two-Phase Damping in Vertical Pipe Flows: Effect of Void Fraction, Flow Rate and External Excitation. , 2014, , .		2
544	On the Stability of Tire Torsional Oscillations Under Locked-Wheel Braking. , 2014, , .		1
545	A Dual-Arm 7-Degrees-of-Freedom Haptics-Enabled Teleoperation Test Bed for Minimally Invasive Surgery. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2014, 8, .	0.4	15
546	Model for friction and wear reduction through piezoelectrically assisted ultrasonic lubrication. , 2014, , .		0
547	On the Influence of High-Frequency Excitation on Systems with Dynamic Friction. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014, 14, 281-282.	0.2	0
548	Non-linear dynamics modelling description for simulating the behaviour of forestry cranes. <i>International Journal of Modelling, Identification and Control</i> , 2014, 21, 125.	0.2	9
549	Development of a compact motor controller supporting EtherCAT for a dual-arm telepresence robot. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
550	Online Estimation and Compensation of Friction in Industrial Cable Robot Manipulation. IFAC-PapersOnLine, 2015, 48, 1332-1337.	0.5	6
551	Whole-body model-predictive control applied to the HRP-2 humanoid. , 2015, , .		145
552	Measurement of the cable-pulley Coulomb and viscous friction for a cable-driven surgical robotic system. , 2015, , .		29
553	A parsimonious friction model for efficient identification and compensation of hysteresis with nonlocal memory. International Journal of Modelling, Identification and Control, 2015, 23, 85.	0.2	4
554	Influence of nonlinear spring behavior of friction on dynamic characteristics of a rolling guideway. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2015, 9, JAMDSM0004-JAMDSM0004.	0.3	8
555	Rack Force Estimation for Electric Power Steering. , 2015, , .		6
556	A SIMPLE MODELING METHOD AND TRAJECTORY PLANNING FOR A CAR-LIKE CLIMBING ROBOT USED TO STRIP COATING FROM THE OUTER SURFACE OF PIPES UNDERWATER. , 2015, , .		0
557	Simulation Environment for the Real-Time Dynamic Analysis of Hybrid Mobile Machines. , 2015, , .		2
558	Practical considerations in using inverse dynamics on a humanoid robot: Torque tracking, sensor fusion and Cartesian control laws. , 2015, , .		13
559	Measurement system for ground reaction forces in skid-steering mobile platform rex. , 2015, , .		2
560	Line of Sight controller tuning using Bayesian optimization of a high-level optronic criterion. IFAC-PapersOnLine, 2015, 48, 56-61.	0.5	1
561	A switch model for the study of powered axles stick-slip. International Journal of Heavy Vehicle Systems, 2015, 22, 338.	0.1	2
562	Development of Upstanding Four-legged Wearable Power Assist Robot TTI-Knuckle1. Transactions of the Society of Instrument and Control Engineers, 2015, 51, 845-857.	0.1	1
563	Friction Effects on Stability of a Digitally Controlled Pendulum. Periodica Polytechnica, Mechanical Engineering, 2015, 59, 176-181.	0.8	2
564	Model-Based Development of Control Systems for Forestry Cranes. Journal of Control Science and Engineering, 2015, 2015, 1-15.	0.8	11
565	The Research on Electrical Parking Brake System based on Frictional Model. , 2015, , .		0
566	On the Dynamics of a Belt-Tensioner with Dry-Friction and Nonlinear Spring. , 0, , .		0
567	A Novel Time-Varying Friction Compensation Method for Servomechanism. Mathematical Problems in Engineering, 2015, 2015, 1-16.	0.6	11



#	ARTICLE	IF	CITATIONS
568	Dynamic Modeling and Nonlinear Position Control of a Quadruped Robot with Theo Jansen Linkage Mechanisms and a Single Actuator. <i>Journal of Robotics</i> , 2015, 2015, 1-15.	0.6	3
569	ANALYSIS OF JOINT FAILURES ON THE LATERAL UNDULATION GAIT OF A ROBOTIC SNAKE. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2015, 39, 253-268.	0.3	4
570	Finite-Time Synergetic Control of Mechanical System Based on Model-Free Friction Compensation. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 275-284.	0.3	4
571	Precise angular speed control of permanent magnet DC motors in presence of high modeling uncertainties via sliding mode observer-based model reference adaptive algorithm. <i>Mechatronics</i> , 2015, 28, 79-95.	2.0	43
572	Nonlinear friction modelling and compensation control of hysteresis phenomena for a pair of tendon-sheath actuated surgical robots. <i>Mechanical Systems and Signal Processing</i> , 2015, 60-61, 770-784.	4.4	77
573	Friction modeling with temperature effects for industrial robot manipulators. , 2015, , .		30
574	Mechanical design and position control of a modular mechatronic device (MechaCell). , 2015, , .		5
575	Contributions of adhesion and hysteresis to coefficient of friction between shoe and floor surfaces: effects of floor roughness and sliding speed. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2015, 9, 77-84.	0.6	27
576	A simulation based approach to detect wear in industrial robots. , 2015, , .		2
577	Friction compensation, gain scheduling and curvature control for a flexible parallel kinematics robot. , 2015, , .		2
578	In-hand manipulation using gravity and controlled slip. , 2015, , .		26
579	Robust precision control for a class of electro-hydraulic actuator system based on disturbance observer. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 1753-1760.	1.1	15
580	Modeling and identification of position and temperature dependent friction phenomena without temperature sensing. , 2015, , .		12
581	A study of an electric parking brake system for emergency braking. <i>International Journal of Vehicle Design</i> , 2015, 67, 315.	0.1	3
582	Dry friction: Modelling and adaptive compensation. , 2015, , .		4
583	Multi Rigid-Body Contact Dynamics With Regularized Friction. , 2015, , .		1
584	Cartesian contact force estimation for robotic manipulators using Kalman filters and the generalized momentum. , 2015, , .		53
585	Modeling and Dynamic Parameter Identification of the SCHUNK Powerball Robotic Arm. , 2015, , .		8

#	ARTICLE	IF	CITATIONS
586	A novel drivetrain modelling approach for real-time simulation. <i>Mechatronics</i> , 2015, 32, 67-78.	2.0	16
587	Nonlinear robust observer based control of twin rotor control system with friction. , 2015, , .		0
588	High-speed and high-precision tracking control of ultrahigh-acceleration moving-permanent-magnet linear synchronous motor. <i>Precision Engineering</i> , 2015, 40, 151-159.	1.8	19
589	Finger contact sensing and the application in dexterous hand manipulation. <i>Autonomous Robots</i> , 2015, 39, 25-41.	3.2	48
590	Modeling and control of an integrated electric parking brake system. <i>Journal of the Franklin Institute</i> , 2015, 352, 626-644.	1.9	8
591	Feedforward neural network position control of a piezoelectric actuator based on a BAT search algorithm. <i>Expert Systems With Applications</i> , 2015, 42, 5416-5423.	4.4	31
592	LIMPACT:A Hydraulically Powered Self-Aligning Upper Limb Exoskeleton. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 2285-2298.	3.7	121
593	Driveline oscillation control by using a dry clutch system. <i>Applied Mathematical Modelling</i> , 2015, 39, 6471-6490.	2.2	24
594	Dynamics and control of space robot considering joint friction. <i>Acta Astronautica</i> , 2015, 111, 1-18.	1.7	29
595	Vehicle yaw stability control using active limited-slip differential via model predictive control methods. <i>Vehicle System Dynamics</i> , 2015, 53, 1315-1330.	2.2	35
597	Adaptive Cascade Control of a Brake-By-Wire Actuator for Sport Motorcycles. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 1310-1319.	3.7	56
598	A two-wheeled inverted pendulum robot with friction compensation. <i>Mechatronics</i> , 2015, 30, 116-125.	2.0	52
599	Asymptotic Derivation of Langevin-like Equation with Non-Gaussian Noise and Its Analytical Solution. <i>Journal of Statistical Physics</i> , 2015, 160, 1294-1335.	0.5	32
600	Two-phase damping for internal flow: Physical mechanism and effect of excitation parameters. <i>Journal of Fluids and Structures</i> , 2015, 56, 56-74.	1.5	13
601	Dynamic Modeling of Scratch Drive Actuators. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 1370-1383.	1.7	4
602	Variable friction device for structural control based on duo-servo vehicle brake: Modeling and experimental validation. <i>Journal of Sound and Vibration</i> , 2015, 348, 41-56.	2.1	41
603	Navigation&™s Stabilization System of a Magnetic Adherence-Based Climbing Robot. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015, 78, 65-81.	2.0	27
605	Progress in Automation, Robotics and Measuring Techniques. <i>Advances in Intelligent Systems and Computing</i> , 2015, , .	0.5	3

#	ARTICLE	IF	CITATIONS
606	Robust feedforward control of robotic arms with friction model uncertainty. <i>Robotics and Autonomous Systems</i> , 2015, 70, 83-91.	3.0	15
607	On the mathematical basis of solid friction. <i>Nonlinear Dynamics</i> , 2015, 81, 1699-1716.	2.7	7
608	Control of 3d Tower Crane Based on Tensor Product Model Transformation With Neural Friction Compensation. <i>Asian Journal of Control</i> , 2015, 17, 443-458.	1.9	44
609	Effect of graphite and granite dust particulates as micro-fillers on tribological performance of Al 6061-T6 hybrid composites. <i>Tribology International</i> , 2015, 92, 462-471.	3.0	41
610	Analysis of a Nonintrusive Efficiency Estimation Technique for Induction Machines Compared to the IEEE 112B and IEC 34-2-1 Standards. <i>IEEE Transactions on Industry Applications</i> , 2015, 51, 4541-4553.	3.3	14
611	Line of sight stabilization controllers tuning from high-level Modulation Transfer Function specifications. <i>IFAC-PapersOnLine</i> , 2015, 48, 13-18.	0.5	1
612	Forced stick-slip oscillations allow the measurement of the friction force: Application to paper materials. <i>Tribology International</i> , 2015, 91, 94-98.	3.0	7
613	Seamless dual brake transmission for electric vehicles: Design, control and experiment. <i>Mechanism and Machine Theory</i> , 2015, 94, 96-118.	2.7	67
614	A new approach of friction model for tendon-sheath actuated surgical systems: Nonlinear modelling and parameter identification. <i>Mechanism and Machine Theory</i> , 2015, 85, 14-24.	2.7	60
615	Adaptive backstepping output feedback control of DC motor actuator with friction and load uncertainty compensation. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 1967-1992.	2.1	19
616	Modelling, simulation and identification of an engine air path electromechanical actuator. <i>Control Engineering Practice</i> , 2015, 34, 88-97.	3.2	8
617	Active magnetic bearing-supported rotor with misaligned cageless backup bearings: A dropdown event simulation model. <i>Mechanical Systems and Signal Processing</i> , 2015, 50-51, 692-705.	4.4	31
618	Design and implementation of attitude control algorithm of a satellite on a three-axis gimbal simulator. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2015, 229, 72-86.	0.7	5
619	GA and PSO optimised SVM controller for manipulator. <i>International Journal of Computational Systems Engineering</i> , 2016, 2, 121.	0.2	2
620	Seismic component devices. , 2016, , 531-553.		13
621	A Review of Wave-to-Wire Models for Wave Energy Converters. <i>Energies</i> , 2016, 9, 506.	1.6	115
622	Estimation of the Clutch Characteristic Map for an Automated Wet Friction Clutch Transmission. , 2016, , .		3
623	A Novel Electric-Power-Steering (EPS) Control Algorithm Development for the Reference Steering Feel Tracking. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
624	Actuator stiction compensation via model predictive control for nonlinear processes. AICHE Journal, 2016, 62, 2004-2023.	1.8	21
625	Adaptive Friction Compensation: Modular Design with Passive Identifier. Asian Journal of Control, 2016, 18, 2100-2108.	1.9	2
626	Frictional Sliding without Geometrical Reflection Symmetry. Physical Review X, 2016, 6, .	2.8	13
627	A Study on the Dynamics of Spatial Mechanisms With Frictional Spherical Clearance Joints. , 2016, , .		2
628	Thermal-friction modeling and analysis for automotive dry clutch systems. , 2016, , .		2
629	Identification and Modeling of Contact Dynamics of Precise Direct Drive Stages. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	2
630	Control of a novel two wired crane. , 2016, , .		1
631	Development of a general friction identification framework for industrial manipulators. , 2016, , .		4
632	Twisted string actuation with sliding surfaces. , 2016, , .		9
633	Hands-on reconfigurable robotic surgical instrument holder arm. , 2016, , .		9
634	Experimental Evaluation of Guided Twisted Actuation. IFAC-PapersOnLine, 2016, 49, 380-385.	0.5	4
635	A comprehensive experimental setup for identification of friction model parameters. Mechanism and Machine Theory, 2016, 100, 338-357.	2.7	33
636	Robust Model Predictive Control of a Benchmark Electromechanical System. Journal of Control, Automation and Electrical Systems, 2016, 27, 119-131.	1.2	6
637	On the Frictional Contacts in Multibody System Dynamics. Computational Methods in Applied Sciences (Springer), 2016, , 67-91.	0.1	27
638	Analytical modeling of a simple passive electromagnetic eddy current friction damper. Proceedings of SPIE, 2016, , .	0.8	4
639	Active control of an innovative seat suspension system with acceleration measurement based friction estimation. Journal of Sound and Vibration, 2016, 384, 28-44.	2.1	81
640	Adaptive position-dependent friction characteristics for electromagnetic actuators. , 2016, , .		1
641	Estimation of the Clutch Characteristic Map for Wet Clutch Transmissions Considering Actuator Signal and Clutch Slip. IFAC-PapersOnLine, 2016, 49, 742-748.	0.5	8

#	ARTICLE	IF	CITATIONS
642	A survey and comparison of several friction force models for dynamic analysis of multibody mechanical systems. <i>Nonlinear Dynamics</i> , 2016, 86, 1407-1443.	2.7	292
643	Modeling and control simulation of an electromechanical mm-wave launching system for thermonuclear fusion applications. <i>Fusion Engineering and Design</i> , 2016, 112, 367-379.	1.0	1
644	ADALINE-based friction identification of a linear voice coil DC motor. , 2016, , .		7
645	High-precision modeling and simulation of the taper leaf spring of tandem suspension of commercial vehicles. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 3061-3067.	0.7	8
646	A fast pick-and-place prototype robot: design and control. , 2016, , .		5
647	Identification of a roller screw for diagnosis of flight control actuator. , 2016, , .		3
648	A PMSM back-stepping time-varying sliding mode control system based on two-dimensional spaceborne ATP mechanism. , 2016, , .		0
649	Design and antagonistic control of a tendon-driven Minimally Invasive Surgical robotic tool. , 2016, , .		3
650	Control of vibrations for a parallel manipulator with flexible links â€” concepts and experimental results. <i>Journal of Physics: Conference Series</i> , 2016, 744, 012069.	0.3	3
651	New approach of friction identification for electro-hydraulic servo system based on evolutionary algorithm and statistical logics with experiments. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 2311-2317.	0.7	7
652	A semi-physical model for pneumatic control valves. <i>Nonlinear Dynamics</i> , 2016, 85, 1735-1748.	2.7	8
653	Study of lateralâ€”axial coupling vibration of propeller-shaft system excited by nonlinear friction. <i>Archive of Applied Mechanics</i> , 2016, 86, 1537-1550.	1.2	6
654	Adaptive control for pivoting with visual and tactile feedback. , 2016, , .		23
655	Modeling and friction estimation for wheeled omnidirectional mobile robots. <i>Robotica</i> , 2016, 34, 2140-2150.	1.3	9
656	The effect of railway vehicle dynamics on the lateral alignment of track. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2016, 230, 258-270.	1.3	10
657	Comparison of Four Friction Models: Feature Prediction. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	0.7	9
658	Mass and Friction Optimization for Natural Motion in Hands-On Robotic Surgery. <i>IEEE Transactions on Robotics</i> , 2016, 32, 201-213.	7.3	13
659	Review and comparison of dry friction force models. <i>Nonlinear Dynamics</i> , 2016, 83, 1785-1801.	2.7	348

#	ARTICLE	IF	CITATIONS
660	Energy Consumption of Geared DC Motors in Dynamic Applications: Comparing Modeling Approaches. IEEE Robotics and Automation Letters, 2016, 1, 524-530.	3.3	49
661	High capacity variable friction damper based on band brake technology. Engineering Structures, 2016, 113, 287-298.	2.6	34
662	Multibody dynamic analysis of a washing machine with a rapid change of mass during dehydration. International Journal of Precision Engineering and Manufacturing, 2016, 17, 91-97.	1.1	8
663	Cutting force analysis to estimate the friction force in linear guideways of CNC machine. Measurement: Journal of the International Measurement Confederation, 2016, 85, 65-79.	2.5	12
664	Design of Scotch yoke mechanisms with improved driving dynamics. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2016, 230, 379-386.	0.5	8
665	Experimental assessment of static friction between pallet and beams in racking systems. Journal of Building Engineering, 2016, 6, 203-214.	1.6	14
666	Force-tracking control of a novel electric parking brake actuator based on a load-sensing, continuously variable transmission. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 1569-1582.	1.1	2
667	A simplified IDA-PBC design for underactuated mechanical systems with applications. European Journal of Control, 2016, 27, 1-16.	1.6	43
668	Integral Sliding Mode Approach to Robust Control Systems Against Friction Force. Arabian Journal for Science and Engineering, 2016, 41, 3695-3702.	1.1	2
669	An engineering method for the power flow assessment in servo-actuated automated machinery: Mechatronic modeling and experimental evaluation. Robotics and Computer-Integrated Manufacturing, 2016, 38, 31-41.	6.1	14
670	Motorized vehicle active suspension damper control with dynamic friction and actuator delay compensation for a better ride quality. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2016, 230, 1074-1089.	1.1	10
671	Friction Compensation Control for Power Steering. IEEE Transactions on Control Systems Technology, 2016, 24, 1354-1367.	3.2	27
672	Design and experimental study of a dynamical adaptive backstepping-sliding mode control scheme for position tracking and regulating of a low-cost pneumatic cylinder. International Journal of Robust and Nonlinear Control, 2016, 26, 853-875.	2.1	29
673	Friction compensation using Coulomb friction model with zero velocity crossing estimator for a force controlled model in the loop suspension test rig. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 2028-2045.	1.1	6
674	Multi-scale concrete model with rate-dependent internal friction. European Journal of Environmental and Civil Engineering, 2017, 21, 821-839.	1.0	86
675	Design and experimental evaluation of a dynamical adaptive backstepping-sliding mode control scheme for positioning of an antagonistically paired pneumatic artificial muscles driven actuating system. International Journal of Control, 2017, 90, 249-274.	1.2	6
676	Sliding Mode Control (SMC) of Robot Manipulator via Intelligent Controllers. Journal of the Institution of Engineers (India): Series B, 2017, 98, 83-98.	1.3	8
677	Disturbance/Uncertainty Estimation and Attenuation Techniques in PMSM Drives—A Survey. IEEE Transactions on Industrial Electronics, 2017, 64, 3273-3285.	5.2	453

#	ARTICLE	IF	CITATIONS
678	On the efficient time domain stress analysis for the rolling chock of an independent type LNG tank targeting fatigue damage evaluation. <i>Marine Structures</i> , 2017, 53, 32-51.	1.6	5
679	Nonlinear dynamics of hardware-in-the-loop experiments on stick-slip phenomena. <i>International Journal of Non-Linear Mechanics</i> , 2017, 94, 380-391.	1.4	8
680	A compound scheme on parameters identification and adaptive compensation of nonlinear friction disturbance for the aerial inertially stabilized platform. <i>ISA Transactions</i> , 2017, 67, 293-305.	3.1	46
681	Damping in a parametric pendulum with a view on energy harvesting. <i>Mechanics Research Communications</i> , 2017, 81, 11-16.	1.0	14
682	Precise Position Synchronous Control for Multi-Axis Servo Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 3707-3717.	5.2	77
683	A passive electromagnetic eddy current friction damper (PEMECFD): Theoretical and analytical modeling. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1978.	1.9	39
684	The effect of longitudinal high-frequency in-plane vibrations on a 1-DoF friction oscillator with compliant contact. <i>Nonlinear Dynamics</i> , 2017, 88, 3003-3015.	2.7	7
685	Nonlinear friction dynamics on polymer surface under accelerated movement. <i>AIP Advances</i> , 2017, 7, .	0.6	32
686	Joint Torque Sensor Embedded in Harmonic Drive Using Order Tracking Method for Robotic Application. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 1594-1599.	3.7	32
687	A Study on the Dynamics of Spatial Mechanisms With Frictional Spherical Clearance Joints. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017, 12, .	0.7	41
688	Hierarchical Cascade Controller for Assistance Modulation in a Soft Wearable Arm Exoskeleton. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 1786-1793.	3.3	59
689	Dynamic modeling and design considerations for gravity energy storage. <i>Journal of Cleaner Production</i> , 2017, 159, 336-345.	4.6	28
690	The Spherical-Actuator-Magnet Manipulator: A Permanent-Magnet Robotic End-Effector. <i>IEEE Transactions on Robotics</i> , 2017, 33, 1013-1024.	7.3	57
691	A review of friction models in interacting joints for durability design. <i>Friction</i> , 2017, 5, 1-22.	3.4	45
692	Input-state feedback linearization control of a single-link flexible robot arm moving under gravity and joint friction. <i>Robotics and Autonomous Systems</i> , 2017, 88, 24-36.	3.0	36
693	Single particle Brownian motion with solid friction. <i>European Physical Journal E</i> , 2017, 40, 60.	0.7	6
694	Design of a Compact Pneumatic Power Generator With a Self-Regulating Mechanism for Mobile Application. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 1983-1991.	3.7	6
695	Mathematical model for two-dimensional dry friction modified by dither. <i>Mathematics and Mechanics of Solids</i> , 2017, 22, 1936-1949.	1.5	4



#	ARTICLE	IF	CITATIONS
696	ANFIS modeling to predict the friction forces in CNC guideways and servomotor currents in the feed drive system to be employed in lubrication control system. Journal of Manufacturing Processes, 2017, 28, 168-185.	2.8	16
697	Development of ankle-less active lower-limb exoskeleton controlled using finite leg function state machine. International Journal of Precision Engineering and Manufacturing, 2017, 18, 803-811.	1.1	16
698	Vibration control using a variable coil-based friction damper. Proceedings of SPIE, 2017, , .	0.8	4
699	Trends and future perspectives of electronic throttle control system in a spark ignition engine. Annual Reviews in Control, 2017, 44, 97-115.	4.4	37
700	Haptic Feedback in Needle Insertion Modeling and Simulation. IEEE Reviews in Biomedical Engineering, 2017, 10, 63-77.	13.1	31
701	Models for dynamic analysis of backup ball bearings of an AMB-system. Mechanical Systems and Signal Processing, 2017, 95, 324-344.	4.4	16
702	Nonlinear Robust Output Stabilization for Mechanical Systems Based on Luenberger-Like Controller/Observer. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	4
703	Advances in Automation and Robotics Research in Latin America. Lecture Notes in Networks and Systems, 2017, , .	0.5	0
704	Effect of dry friction on vibrations of sampled-data mechatronic systems. Nonlinear Dynamics, 2017, 88, 349-361.	2.7	6
705	An LQR controller in the obstacle avoidance of a two-wires hammerhead crane. Neurocomputing, 2017, 233, 14-22.	3.5	9
706	Identification of GMS friction model using a new switching function: experimental investigation. International Journal of Modelling, Identification and Control, 2017, 27, 31.	0.2	2
707	Control of an electromechanical clutch actuator by a parallel Adaptive Feedforward and Bang-Bang controller: Simulation and Experimental results. IFAC-PapersOnLine, 2017, 50, 4787-4793.	0.5	6
708	Effects of nonlinear friction compensation in the inertia wheel pendulum. Journal of Mechanical Science and Technology, 2017, 31, 4425-4433.	0.7	12
709	Neural network-based adaptive composite dynamic surface control for electro-hydraulic system with very low velocity. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2017, 231, 867-880.	0.7	7
710	On the Model-Free Compensation of Coulomb Friction in the Absence of the Velocity Measurement. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	5
711	Clamping force estimation based on hysteresis modeling for electro-mechanical brakes. International Journal of Automotive Technology, 2017, 18, 883-890.	0.7	26
712	Learning dynamic models for open loop predictive control of soft robotic manipulators. Bioinspiration and Biomimetics, 2017, 12, 066003.	1.5	96
713	Intelligent robotic gripper with adaptive grasping force. International Journal of Control, Automation and Systems, 2017, 15, 2272-2282.	1.6	24



#	ARTICLE	IF	CITATIONS
714	An improved startup mode using clutch coupling for in-wheel electric vehicle drives. <i>Automatika</i> , 2017, 58, 97-110.	1.2	3
715	An Improved Dynamic Friction Model Using a Data-Based Approach. , 2017, , .		0
716	Analytical Solution to Nonlinear Non-Gaussian Langevin Equation. <i>Springer Theses</i> , 2017, , 103-132.	0.0	0
717	Friction parameter identification and compensation using the ElastoPlastic friction model. <i>Mechatronics</i> , 2017, 47, 168-182.	2.0	45
718	Stick-slip vibration of a friction damper for energy dissipation. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401771392.	0.8	10
719	Disturbance adaptive steering wheel torque control for enhanced path tracking of autonomous vehicles. , 2017, , .		6
720	Formulation of Presliding Domain Non-local Memory Hysteretic Loops Based Upon Modified Maxwell Slip Model. <i>Tribology Letters</i> , 2017, 65, 1.	1.2	3
721	A complete strategy for efficient and accurate multibody dynamics of flexible structures with large lap joints considering contact and friction. <i>Multibody System Dynamics</i> , 2017, 40, 407-436.	1.7	24
722	Transient simulation of friction-induced vibrations using an elastic multibody approach. <i>Multibody System Dynamics</i> , 2017, 39, 37-49.	1.7	5
723	Robust output regulation by observer-based feedforward control. <i>International Journal of Systems Science</i> , 2017, 48, 795-804.	3.7	9
724	Estimation of friction heat in a linear motion bearing using Box-Behnken design. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 2021-2029.	1.5	13
725	A novel approach for mitigating the effects of pre-rolling/pre-sliding friction on the settling time of rolling bearing nanopositioning stages using high frequency vibration. <i>Precision Engineering</i> , 2017, 47, 375-388.	1.8	21
726	Low-Speed Control for Permanent-Magnet DC Torque Motor Using Observer-Based Nonlinear Triple-Step Controller. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 3286-3296.	5.2	42
727	Clamping force control of Sensor-less Electro-Mechanical brake actuator. , 2017, , .		5
728	Low-cost precision motion control for industrial digital microscopy. , 2017, , .		2
729	State Estimation of an Advanced Rowing Machine Using Optimized Kalman Filtering. , 2017, , .		1
730	On the Inclusion of Temperature in the Friction Model of Industrial Robots. <i>IFAC-PapersOnLine</i> , 2017, 50, 3482-3487.	0.5	14
731	Canards in Stiction: On Solutions of a Friction Oscillator by Regularization. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 2233-2258.	0.7	11

#	ARTICLE	IF	CITATIONS
732	Model-Based grasp force estimation for minimally invasive surgery. , 2017, , .		1
733	Design of cross-coupled CMAC for contour-following reinforcement-based ILC approach. Automatika, 2017, 58, 302-311.	1.2	3
734	Modeling effect on the performance of impact and friction vibration absorbers. Mechanics and Industry, 2017, 18, 206.	0.5	0
735	Torque control of a double tendon-sheath actuation mechanism in varying sheath configuration. , 2017, , .		5
736	In-hand manipulation using three-stages open loop pivoting. , 2017, , .		14
737	A friction model with velocity, temperature and load torque effects for collaborative industrial robot joints. , 2017, , .		14
738	Comparison of modeling-free learning control algorithms for galvanometer scanner's periodic motion. , 2017, , .		8
739	Improvement of a Robotic Manipulator Model Based on Multivariate Residual Modeling. Frontiers in Robotics and AI, 2017, 4, .	2.0	2
740	Influence of Soil Plug on Pipe Ramming Process. Journal of Mining Science, 2017, 53, 1073-1084.	0.1	7
741	Dynamic Response of a Simplified Turbine Blade Model with Under-Platform Dry Friction Dampers Considering Normal Load Variation. Applied Sciences (Switzerland), 2017, 7, 228.	1.3	22
742	A New Miniature Wind Turbine for Wind Tunnel Experiments. Part I: Design and Performance. Energies, 2017, 10, 908.	1.6	57
743	Validating a Wave-to-Wire Model for a Wave Energy Converter Part I: The Hydraulic Transmission System. Energies, 2017, 10, 977.	1.6	27
744	Control Applied to a Reciprocating Internal Combustion Engine Test Bench under Transient Operation: Impact on Engine Performance and Pollutant Emissions. Energies, 2017, 10, 1690.	1.6	8
745	Modeling Friction Performance of Drill String Torsional Oscillation Using Dynamic Friction Model. Shock and Vibration, 2017, 2017, 1-14.	0.3	7
746	Identification of sliding and pre-sliding regime friction in a ball screw driven system. , 2017, , .		1
747	Parameter Identification of Static Friction Based on An Optimal Exciting Trajectory. IOP Conference Series: Materials Science and Engineering, 2017, 280, 012025.	0.3	2
748	Wavelet network for in-loop identification and control of frictional nonlinear systems. International Journal of Dynamics and Control, 2018, 6, 1577-1584.	1.5	0
749	Approaches for Achieving Superlubricity in Two-Dimensional Materials. ACS Nano, 2018, 12, 2122-2137.	7.3	364

#	ARTICLE	IF	CITATIONS
750	Dynamisches Antriebsstrang-Modell im GetriebesteuergerÄt. Proceedings, 2018, , 27-43.	0.2	0
751	Dynamic Axially-Stiff String Model for Tripping Operations in Directional Wellbores. , 2018, , .		0
752	Robust Speed Regulation for PMSM Servo System With Multiple Sources of Disturbances via an Augmented Disturbance Observer. IEEE/ASME Transactions on Mechatronics, 2018, 23, 769-780.	3.7	170
753	Improving backdrivability in preoperative manual manipulability of minimally invasive surgery robot. Industrial Robot, 2018, 45, 127-140.	1.2	6
754	A novel dynamic contour error estimation and control in high-speed CNC. International Journal of Advanced Manufacturing Technology, 2018, 96, 547-560.	1.5	19
755	Global Asymptotic Stability of a PID Control System With Coulomb Friction. IEEE Transactions on Automatic Control, 2018, 63, 2654-2661.	3.6	30
756	Performance of Cassini Reaction Wheel Friction Compensation Scheme during Spin Rate Zero-crossing. , 2018, , .		1
757	Modeling, analysis and constrained control of wet cone clutch systems: A synchromesh case study. Mechatronics, 2018, 49, 92-104.	2.0	8
758	Sensorless and adaptive admittance control of industrial robot in physical human-robot interaction. Robotics and Computer-Integrated Manufacturing, 2018, 51, 158-168.	6.1	84
759	Clamping force control based on dynamic model estimation for electromechanical brakes. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 2000-2013.	1.1	16
760	Earthquake-Induced pallet sliding in industrial racking systems. Journal of Building Engineering, 2018, 19, 122-133.	1.6	10
761	The closed-form motion equation of redundant actuation parallel robot with joint friction: an application of the Udwadia-Kalaba approach. Nonlinear Dynamics, 2018, 93, 689-703.	2.7	22
762	Motor-Current-Based Estimation of Cartesian Contact Forces and Torques for Robotic Manipulators and Its Application to Force Control. IEEE Transactions on Automation Science and Engineering, 2018, 15, 879-886.	3.4	105
763	Robust feedback control of the underactuated Inertia Wheel Inverted Pendulum under parametric uncertainties and subject to external disturbances: LMI formulation. Journal of the Franklin Institute, 2018, 355, 9150-9191.	1.9	72
764	A nonlinear six degrees of freedom dynamic model of planetary roller screw mechanism. Mechanism and Machine Theory, 2018, 119, 22-36.	2.7	32
765	A Neural-Network-Based Controller for Piezoelectric-Actuated Stick-Slip Devices. IEEE Transactions on Industrial Electronics, 2018, 65, 2598-2607.	5.2	95
766	Approximately analytical technique for random response of LuGre friction system. International Journal of Non-Linear Mechanics, 2018, 104, 1-7.	1.4	16
767	Model-free fractional-order sliding mode control for an active vehicle suspension system. Advances in Engineering Software, 2018, 115, 452-461.	1.8	98

#	ARTICLE	IF	CITATIONS
768	Drivetrain resistance and starting performance of a small wind turbine. <i>Renewable Energy</i> , 2018, 117, 509-519.	4.3	22
769	Frictional Hysteresis Model for Stick-Slip Behavior of Magnetorheological Elastomer Under Various Magnetic Field Strengths. <i>Journal of Tribology</i> , 2018, 140, .	1.0	2
770	Modeling, design, and testing of a proof-of-concept prototype damper with friction and eddy current damping effects. <i>Journal of Sound and Vibration</i> , 2018, 413, 225-249.	2.1	34
771	Experimental and Numerical Studies of Dynamic Behaviors of a Hydraulic Power Take-Off Cylinder Using Spectral Representation Method. <i>Journal of Tribology</i> , 2018, 140, .	1.0	8
772	A study of friction vibration absorber: impact of friction modeling on the efficacy of the absorber and friction coefficient optimization. <i>Mechanics and Industry</i> , 2018, 19, 602.	0.5	1
773	Real-time simulation model for dynamic analysis of three-wheel counterbalance forklift. <i>International Journal of Vehicle Systems Modelling and Testing</i> , 2018, 13, 109.	0.1	0
774	Integrating Path Planning and Pivoting. , 2018, , .		2
775	Application of the principle of energy equivalence to obtain suitable models of parallel planar mechanisms for identification including friction parameters. A case study: 5R RePlaLink haptic mechanism. <i>Mechatronics</i> , 2018, 56, 87-100.	2.0	1
776	Adaptive Control for Spatial Turntable with Compensation of Cable-Harness Disturbance. , 2018, , .		1
777	Learning-Based Robust Model Predictive Control with State-Dependent Uncertainty. <i>IFAC-PapersOnLine</i> , 2018, 51, 442-447.	0.5	50
778	Galvanometer scanner modeling for Selective Laser Melting deflection system simulation. , 2018, , .		1
779	Modeling and experimental validation of the influence of robot temperature on its energy consumption. , 2018, , .		13
780	Passive Variable Friction Damper for Increased Structural Resilience to Multi-Hazard Excitations. , 2018, , .		2
781	Efficient Physics-Based Implementation for Realistic Hand-Object Interaction in Virtual Reality. , 2018, , .		33
782	Some new advance on the research of stochastic non-smooth systems. <i>Chinese Physics B</i> , 2018, 27, 110503.	0.7	16
784	Technique for Friction Model Identification in an Industrial Robot Joint Using KUKA KR10. , 2018, , .		1
785	Parametrization of the uncertainties in the dynamics of the target tracking systems of aircraft. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
786	Hybrid Regressor and Approximation-Based Adaptive Control of Robotic Manipulators with Contact-Free Motion. , 2018, , .		13

#	ARTICLE	IF	CITATIONS
787	A discontinuous model simulation for train start-up dynamics. Australian Journal of Mechanical Engineering, 2018, 16, 139-146.	1.5	4
788	Extending a Dynamic Friction Model with Nonlinear Viscous and Thermal Dependency for a Motor and Harmonic Drive Gear. , 2018, , .		23
789	PID electro-hydraulic cylinder force tracking system with friction compensation. MATEC Web of Conferences, 2018, 192, 02019.	0.1	3
790	A Robotic Drilling End-Effector and Its Sliding Mode Control for the Normal Adjustment. Applied Sciences (Switzerland), 2018, 8, 1892.	1.3	6
791	ADALINE-Based Friction Identification and Compensation of a Linear Voice-Coil DC Motor. , 2018, , .		1
792	Identification of Viscous and Coulomb Friction in Motion Constrained Systems. , 2018, , .		7
793	An experimental investigation of the effects of the compliant joint method on feedback compensation of pre-sliding/pre-rolling friction. Precision Engineering, 2018, 54, 81-90.	1.8	14
794	Distributed Adaptive Synchronization Control with Friction Compensation of Networked Lagrange Systems. International Journal of Control, Automation and Systems, 2018, 16, 1038-1048.	1.6	6
795	Friction estimation of a linear voice coil motor using robust state space sinusoidal reference tracking. , 2018, , .		4
796	Five-axis contour error control considering milling force effects for CNC machine tools. International Journal of Advanced Manufacturing Technology, 2018, 98, 1655-1669.	1.5	7
797	A new turning system assisted by chip-pulling. Journal of Manufacturing Processes, 2018, 34, 734-739.	2.8	4
798	Jitter in Piecewise-Smooth Dynamical Systems with Intersecting Discontinuity Surfaces. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830020.	0.7	10
799	A Soft Wearable Elbow Exosuit. , 2018, , 193-214.		1
800	Design, development, and testing of a lightweight hybrid robotic knee prosthesis. International Journal of Robotics Research, 2018, 37, 953-976.	5.8	99
801	Friction Dynamics and Modeling. , 2018, , 11-18.		4
802	Adaptive Prescribed Performance Control of Servo Systems With Continuously Differentiable Friction Model. , 2018, , 57-73.		0
803	Adaptive Control for Manipulation Systems With Discontinuous Piecewise Parametric Friction Model. , 2018, , 93-105.		1
804	Reaction force observer using load dependent friction model. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
805	Vibration Technologies for Friction Reduction to Overcome Weight Transfer Challenge in Horizontal Wells Using a Multiscale Friction Model. <i>Lubricants</i> , 2018, 6, 53.	1.2	6
806	The PREHydrA: A Passive Return, High Force Density, Electro-Hydrostatic Actuator Concept for Wearable Robotics. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 3569-3574.	3.3	6
807	Interaction Between Pallets and Pallet Beams of Steel Storage Racks in Seismic Areas. <i>International Journal of Steel Structures</i> , 2018, 18, 1018-1034.	0.6	6
808	Robust position and vibration control of an electrohydraulic series elastic manipulator against disturbance generated by a variable stiffness actuator. <i>Mechatronics</i> , 2018, 52, 22-35.	2.0	21
809	Combined Effect of Sampling and Coulomb Friction on Haptic Systems Dynamics. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018, 13, .	0.7	2
810	On the dynamics of a vibro-driven capsule system. <i>Archive of Applied Mechanics</i> , 2018, 88, 2199-2219.	1.2	19
811	Experimental Validation of Inversion Techniques for an LPV motion system. , 2018, , .		0
812	Control-oriented friction modeling of hydraulic actuators based on hysteretic nonlinearity of lubricant film. <i>Mechatronics</i> , 2018, 53, 72-84.	2.0	7
813	Beating-heart robotic surgery using bilateral impedance control: Theory and experiments. <i>Biomedical Signal Processing and Control</i> , 2018, 45, 256-266.	3.5	20
814	Control-based compensation of friction and backlash within rack-and-pinion drives. <i>Production Engineering</i> , 2018, 12, 589-596.	1.1	4
815	High-Precision XY Stage Motion Control of Industrial Microscope. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 1984-1992.	5.2	15
816	Hysteretic (Non-reversible) Bit-Rock Interaction Model for Torsional Vibration Analysis of a Drillstring. <i>Mechanisms and Machine Science</i> , 2019, , 491-504.	0.3	1
817	Modeling and analysis of friction including rolling effects in multibody dynamics: a review. <i>Multibody System Dynamics</i> , 2019, 45, 223-244.	1.7	110
818	Effect of matrix powder and reinforcement content on tribological behavior of particulate 6061Al-TiB <sub>2</sub> composites. <i>Journal of Composite Materials</i> , 2019, 53, 1181-1195.	1.2	4
819	Weak disturbance-triggered seismic events: an experimental and numerical investigation. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 2943-2955.	1.6	11
820	Bounded Error Tracking Control for Contouring Systems with End Effector Measurements. , 2019, , .		3
821	Stick-Slip Suppression in Geared Motor Using Speed-Variant Transient Components of High-Order Motor-Side Normalization Compensator. , 2019, , .		2
822	Intelligent Friction Compensation: A Review. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 1763-1774.	3.7	56

#	ARTICLE	IF	CITATIONS
823	A New Robust Control for Induction Motors. IETE Journal of Research, 2022, 68, 1168-1176.	1.8	2
824	Parallel loop recovery with quiescent compensation for high performance feedback control of systems with imperfect actuators. Control Theory and Technology, 2019, 17, 201-215.	1.0	1
825	Surrogate model approach for investigating the stability of a friction-induced oscillator of Duffing's type. Nonlinear Dynamics, 2019, 98, 1709-1729.	2.7	8
826	Adaptive notch filter for pathological tremor suppression using permanent magnet linear motor. Mechatronics, 2019, 63, 102273.	2.0	12
827	Robust adaptive control of output-constrained linear motor. , 2019, , .		0
828	Reset solutions for performance limitations induced by Coulomb friction in a motion control system with a disturbance observer. , 2019, , .		0
829	Minimal model for slow, sub-Rayleigh, supershear, and unsteady rupture propagation along homogeneously loaded frictional interfaces. Physical Review E, 2019, 100, 043004.	0.8	3
830	Development of a "transparent operation mode" for a lower-limb exoskeleton designed for children with cerebral palsy. , 2019, 2019, 512-517.		33
831	Automated Grasp Planning and Path Planning for a Robot Hand-Arm System. , 2019, , .		2
832	Friction Model of a Robot Manipulator Considering the effect of Gravitational torque. , 2019, , .		2
833	Micro-Slip as a Loss of Determinacy in Dry-Friction Oscillators. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1930015.	0.7	2
834	The Advanced Control Approach based on SMC Design for the High-Fidelity Haptic Power Lever of a Small Hybrid Electric Aircraft. Energies, 2019, 12, 2974.	1.6	1
835	Effect of Water Incorporation on the Lubrication Characteristics of Synthetic Oils. Tribology Letters, 2019, 67, 1.	1.2	21
836	Effects of surface contact on the dynamic responses of delaminated composite plates. Composite Structures, 2019, 229, 111378.	3.1	10
837	The sliding friction contact frequency response function. Procedia Manufacturing, 2019, 34, 73-82.	1.9	4
838	Modelling and validation of a free piston expander-linear generator for waste heat recovery system. Applied Thermal Engineering, 2019, 163, 114377.	3.0	11
839	Experimental study of a high-tolerance piston-cylinder pair in the alpha Ross-yoke Stirling refrigerator. International Journal of Refrigeration, 2019, 100, 235-245.	1.8	7
840	Extended State Observer-Based Sliding Mode Control of an Omnidirectional Mobile Robot With Friction Compensation. IEEE Transactions on Industrial Electronics, 2019, 66, 9480-9489.	5.2	157

#	ARTICLE	IF	CITATIONS
841	Kinematically redundant actuators, a solution for conflicting torque&quot;speed requirements. International Journal of Robotics Research, 2019, 38, 612-629.	5.8	14
842	Fast Terminal Sliding Control Application for Second-order Underactuated Systems. International Journal of Control, Automation and Systems, 2019, 17, 1884-1898.	1.6	21
843	System Performance and Testing. , 2019, , 105-139.		1
844	RBF Neural Network Based Backstepping Control for an Electrohydraulic Elastic Manipulator. Applied Sciences (Switzerland), 2019, 9, 2237.	1.3	11
845	Seismic response control of multi-story base-isolated buildings using a smart electromagnetic friction damper with smooth hysteretic behavior. Mechanical Systems and Signal Processing, 2019, 130, 409-432.	4.4	17
846	Extended State Observer Based Robust Friction Compensation for Tracking Control of an Omnidirectional Mobile Robot. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	0.9	10
847	Cam-based passive variable friction device for structural control. Engineering Structures, 2019, 188, 430-439.	2.6	15
848	Mitigating and Understanding Stick-Slip in Unconventional Wells. , 2019, , .		15
849	Mechanical behaviour of fluid-lubricated faults. Nature Communications, 2019, 10, 1274.	5.8	46
850	Coulomb Friction Crawling Model Yields Linear Force&quot;Velocity Profile. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	1.1	4
851	Walking propulsion generation in double stance by powered exoskeleton for paraplegics. Robotics and Autonomous Systems, 2019, 116, 24-37.	3.0	20
852	Further study of linear PMSM driven ropeless lifts with consideration of imperfections by simulation. Building Services Engineering Research and Technology, 2019, 40, 682-697.	0.9	1
853	Stochastic modeling for hysteretic bit&quot;rock interaction of a drill string under torsional vibrations. JVC/Journal of Vibration and Control, 2019, 25, 1663-1672.	1.5	26
854	Methods to Eliminate Surging Motion in a Conveyor System Considering Industrial Case Studies. International Journal of Precision Engineering and Manufacturing, 2019, 20, 583-592.	1.1	0
855	Torque control based direct teaching for industrial robot considering temperature-load effects on joint friction. Industrial Robot, 2019, 46, 699-710.	1.2	10
856	Deep Lagrangian Networks for end-to-end learning of energy-based control for under-actuated systems. , 2019, , .		25
857	Real-Time Computation and Parameter Identification of Torque-Off Sliding Distance for Elegant Robot Failure. , 2019, , .		0
858	Nonlinear Model Predictive Control of a Heavy-Duty Hydraulic Bulldozer Blade. , 2019, , .		3



#	ARTICLE	IF	CITATIONS
859	LPV Modeling and Switched Control for EGR Valves with Dry Friction. , 2019, , .		6
860	A Deep Learning Strategy For On-Orbit Servicing Via Space Robotic Manipulator. <i>Aerotecnica Missili &amp; Spazio</i> , 2019, 98, 273-282.	0.5	10
861	Metastable transitions in inertial Langevin systems: What can be different from the overdamped case?. <i>European Journal of Applied Mathematics</i> , 2019, 30, 830-852.	1.4	2
862	The Moment Duration Scaling Relation for Slow Rupture Arises From Transient Rupture Speeds. <i>Geophysical Research Letters</i> , 2019, 46, 12805-12814.	1.5	6
863	Frictional Analysis of different coatings on MS material in order to increase the life of machine element. , 2019, , .		0
864	A proposal of a piezo rotary positioning device: design, modeling and experiments. <i>Smart Materials and Structures</i> , 2019, 28, 115032.	1.8	5
865	Destruction energy index (DEI) of vitamin E blended UHMWPE for artificial joints. <i>Biosurface and Biotribology</i> , 2019, 5, 24-27.	0.6	6
866	Energy-based friction analysis. <i>Precision Engineering</i> , 2019, 55, 88-94.	1.8	3
867	Friction microdynamics in the time and frequency domains: Tutorial on frictional hysteresis and resonance in precision motion systems. <i>Precision Engineering</i> , 2019, 55, 101-109.	1.8	12
868	Numerical study of wave interaction with a composite breakwater located on permeable bed. <i>Coastal Engineering</i> , 2019, 146, 1-13.	1.7	21
869	Experimental study on toolface disorientation and correction during slide drilling. <i>Journal of Petroleum Science and Engineering</i> , 2019, 173, 853-860.	2.1	6
870	Line of sight controller tuning using Bayesian optimisation: application to a double stage stabilisation platform. <i>International Journal of Systems Science</i> , 2019, 50, 8-22.	3.7	1
871	Passivity-based adaptive control of a 2-DOF serial robot manipulator with temperature dependent joint frictions. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 512-526.	2.3	5
872	Modelling and analysis of dynamic frictional interactions of vibro-driven capsule systems with viscoelastic property. <i>European Journal of Mechanics, A/Solids</i> , 2019, 74, 16-25.	2.1	24
873	Modeling the Static Friction in a Robot Joint by Genetically Optimized BP Neural Network. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019, 94, 29-41.	2.0	19
874	Modelling the temperature in joint friction of industrial manipulators. <i>Robotica</i> , 2019, 37, 906-927.	1.3	18
875	Finite-Time Convergence Adaptive Neural Network Control for Nonlinear Servo Systems. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 2568-2579.	6.2	102
876	A self-propelled robotic system with a visco-elastic joint: dynamics and motion analysis. <i>Engineering With Computers</i> , 2020, 36, 655-669.	3.5	19

#	ARTICLE	IF	CITATIONS
877	Modification of friction for straightforward implementation of friction law. <i>Multibody System Dynamics</i> , 2020, 48, 239-257.	1.7	11
878	Precise Active Brake-Pressure Control for a Novel Electro-Booster Brake System. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 4774-4784.	5.2	28
879	Theoretical and computational studies on nanofriction: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2020, 234, 448-465.	1.0	6
880	Analysis of Influence of a Crane Flexible Supports, Link Flexibility, and Joint Friction on Vibration Associated with Programmed Motion Execution. <i>Journal of Vibration Engineering and Technologies</i> , 2020, 8, 337-350.	1.3	8
881	Research on vibration suppression by a multi-point flexible following support head in thin-walled parts mirror milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 3335-3344.	1.5	16
882	Novel servo-feed-drive model considering cutting force and structural effects in milling to predict servo dynamic behaviors. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 1441-1451.	1.5	4
883	Practical Considerations in the Modelling and Simulation of Electromechanical Actuators. <i>Actuators</i> , 2020, 9, 94.	1.2	7
884	A Bio-Inspired Manipulator with Claw Prototype for Winged Aerial Robots: Benchmark for Design and Control. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6516.	1.3	13
885	Review on Friction and Wear Test Rigs: An Overview on the State of the Art in Tyre Tread Friction Evaluation. <i>Lubricants</i> , 2020, 8, 91.	1.2	17
886	Cascade Control Strategy on Servo Pneumatic System with Fuzzy Self-Adaptive System. <i>Journal of Control, Automation and Electrical Systems</i> , 2020, 31, 1412-1425.	1.2	10
887	Parameter estimation and performance comparison of friction models for pneumatic valves. <i>Control Engineering Practice</i> , 2020, 104, 104629.	3.2	5
888	A reward-punishment feedback control strategy based on energy information for wrist rehabilitation. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988142094065.	1.3	7
889	Drop Tower Experiment to Study the Effect of Microgravity on Friction Behavior: Experimental Set-up and Preliminary Results. <i>Microgravity Science and Technology</i> , 2020, 32, 1095-1104.	0.7	2
890	Modeling and Experimental Verification of a Cable-Constrained Synchronous Rotating Mechanism Considering Friction Effect. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 5464-5471.	3.3	12
891	Nonlinear Behavior of a Novel Switching Jerk System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020, 30, 2050202.	0.7	11
892	A survey on underactuated robotic systems: Bio-inspiration, trajectory planning and control. <i>Mechatronics</i> , 2020, 72, 102443.	2.0	42
893	A new joint friction model for parameter identification and sensor-less hand guiding in industrial robots. <i>Industrial Robot</i> , 2020, 47, 847-857.	1.2	15
894	Improving Multirotor Landing Performance on Inclined Surfaces Using Reverse Thrust. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 5850-5857.	3.3	19

#	ARTICLE	IF	CITATIONS
895	Targeting the user experience in the development of mobile machinery using real-time multibody simulation. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402092317.	0.8	10
896	Performance evaluation of touchdown bearing using model-based approach. <i>Nonlinear Dynamics</i> , 2020, 101, 211-232.	2.7	5
897	Development of a Low-friction Motor using Bearings as Gear Teeth. , 2020, , .		0
898	Research on Radar Servo System Based On Disturbance Observer Sliding Mode Control. <i>Journal of Physics: Conference Series</i> , 2020, 1550, 032026.	0.3	0
899	A Stiction Oscillator with Canards: On Piecewise Smooth Nonuniqueness and Its Resolution by Regularization Using Geometric Singular Perturbation Theory. <i>SIAM Review</i> , 2020, 62, 869-897.	4.2	8
900	Continuously Differentiable Stick-Slip Friction Model with Applications to Cable Simulation Using Nonlinear Finite Elements. , 2020, , .		0
901	Comprehensive modeling and identification of nonlinear joint dynamics for collaborative industrial robot manipulators. <i>Control Engineering Practice</i> , 2020, 101, 104462.	3.2	39
902	To stick or to slip: A reset PID control perspective on positioning systems with friction. <i>Annual Reviews in Control</i> , 2020, 49, 37-63.	4.4	17
903	Stability analysis of brain emotional intelligent controller with application to electrically driven robot manipulators. <i>IET Science, Measurement and Technology</i> , 2020, 14, 182-187.	0.9	6
904	Torque Control of a Series Elastic Tendon-Sheath Actuation Mechanism. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2915-2926.	3.7	11
905	Robust Control for Nonlinear Delta Parallel Robot With Uncertainty: An Online Estimation Approach. <i>IEEE Access</i> , 2020, 8, 97604-97617.	2.6	19
906	Improving The Motion Parameters Of The Production Mechanism Link By Microvibration. , 2020, , .		1
907	Analytical dynamic modeling of Delta robot with experimental verification. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2020, 234, 623-630.	0.5	4
908	A validation procedure to identify joint friction, reductor self-locking and gear backlash parameters. <i>Archive of Applied Mechanics</i> , 2020, 90, 1625-1641.	1.2	5
909	Adaptive Transfer Case Clutch Touchpoint Estimation With a Modified Friction Model. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2000-2008.	3.7	10
910	Effect of Cutaneous Feedback on the Perception of Virtual Object Weight during Manipulation. <i>Scientific Reports</i> , 2020, 10, 1357.	1.6	13
911	Homogeneous integral controllers for a magnetic suspension system. <i>Control Engineering Practice</i> , 2020, 97, 104325.	3.2	7
912	An Optimized RBF Neural Network Based on Beetle Antennae Search Algorithm for Modeling the Static Friction in a Robotic Manipulator Joint. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-10.	0.6	4

#	ARTICLE	IF	CITATIONS
913	Bayesian Inference Based Parameter Calibration of the LuGre-Friction Model. <i>Experimental Techniques</i> , 2020, 44, 369-382.	0.9	8
914	Modeling with Nonsmooth Dynamics. <i>Frontiers in Applied Dynamical Systems: Reviews and Tutorials</i> , 2020, , .	0.5	13
915	Design of a Robust Rack Position Controller Based on 1-Dimensional AMESim Model of a Steer-by-Wire System. <i>International Journal of Automotive Technology</i> , 2020, 21, 419-425.	0.7	3
916	Accurate Dynamic Modeling of Twisted String Actuators Accounting for String Compliance and Friction. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 3438-3443.	3.3	15
917	A Newton-like algorithm to solve contact and wear problems with pressure-dependent friction coefficients. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 85, 105216.	1.7	4
918	Modeling Cable-Driven Robot With Hysteresis and Cableâ€Pulley Network Friction. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 1095-1104.	3.7	22
919	Active Compliance Control Reduces Upper Body Effort in Exoskeleton-Supported Walking. <i>IEEE Transactions on Human-Machine Systems</i> , 2020, 50, 144-153.	2.5	25
920	Engine EGR Valve Modeling and Switched LPV Control Considering Nonlinear Dry Friction. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 1668-1678.	3.7	20
921	GPU-accelerated meshfree simulations for parameter identification of a friction model in metal machining. <i>International Journal of Mechanical Sciences</i> , 2020, 176, 105571.	3.6	20
922	A robustness study of a finiteâ€time/exponential tracking continuous control scheme for constrainedâ€input mechanical systems: Analysis and experiments. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 3923-3944.	2.1	7
923	Adaptive feedforward control of a collaborative industrial robot manipulator using a novel extension of the Generalized Maxwell-Slip friction model. <i>Mechanism and Machine Theory</i> , 2021, 155, 104109.	2.7	18
924	Dynamic analysis of multiple inclined and frictional impact-contacts in multi-branch robotic systems. <i>Applied Mathematical Modelling</i> , 2021, 91, 24-42.	2.2	24
925	A numeric derivation for fast regressive modeling of manipulator dynamics. <i>Mechanism and Machine Theory</i> , 2021, 156, 104149.	2.7	8
926	Modeling and Performance Evaluation of the Dynamic Behavior of Gravity Energy Storage with a Wire Rope Hoisting System. <i>Journal of Energy Storage</i> , 2021, 33, 102154.	3.9	28
928	Synthesis of fractional order robust controller based on Bodeâ€™s ideas. <i>ISA Transactions</i> , 2021, 111, 290-301.	3.1	18
929	Adhesion modelling by finite elements of three-dimensional fretting. <i>Tribology International</i> , 2021, 156, 106802.	3.0	3
930	A GUAS Joint Position Tracking Controller of Torque-Driven Robot Manipulators Influenced by Dynamic Dahl Friction: Theory and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 1877-1890.	3.2	10
931	Adaptive friction compensations for mechanical systems with measurement delay. <i>Transactions of the Institute of Measurement and Control</i> , 2021, 43, 1745-1759.	1.1	2

#	ARTICLE	IF	CITATIONS
932	Adaptive Interconnection and Damping Assignment Passivity Based Control for Underactuated Mechanical Systems. International Journal of Control, Automation and Systems, 2021, 19, 864-877.	1.6	11
933	Regelung elastischer und reibungsbehafteter Systeme. , 2021, , 1231-1366.		0
934	Dynamic identification of a tracking parallel mechanism. Mechanism and Machine Theory, 2021, 155, 104091.	2.7	8
935	Digital Twin of the Drive System, Considering the Forces of Various Nature. Procedia Computer Science, 2021, 190, 611-621.	1.2	1
936	Designing Robust Control for Permanent Magnet Synchronous Motor: Fuzzy Based and Multivariable Optimization Approach. IEEE Access, 2021, 9, 39138-39153.	2.6	15
937	Energy Savings in Pneumatically Driven Plants. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1023-1033.	3.7	5
938	An Identification-Based Method Improving the Transparency of a Robotic Upper Limb Exoskeleton. Robotica, 2021, 39, 1711-1728.	1.3	18
939	Anti-Chaos control of a servo system using nonlinear model reference adaptive control. Chaos, Solitons and Fractals, 2021, 143, 110581.	2.5	18
940	Mathematical Modeling of the Coaxial Quadrotor Dynamics for Its Attitude and Altitude Control. Energies, 2021, 14, 1232.	1.6	12
941	Nonlinear Frictional Dynamics on Rolling Contact. , 0, , .		0
942	A model predictive approach for online mobile manipulation of non-holonomic objects using learned dynamics. International Journal of Robotics Research, 2021, 40, 815-831.	5.8	3
943	Identification of a dynamic friction model for railway disc brakes. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 1214-1224.	1.3	7
944	Challenges of Linearization-based Control of Industrial Robots with Cycloidal Drives. , 2021, , .		3
945	Development of a force actuator for hybrid model tests using super-twisting sliding mode control. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	0
946	Multiscale formulation of frictional contact mechanics at the pore scale. Journal of Computational Physics, 2021, 430, 110092.	1.9	9
947	Consistent dynamic model identification of the StÄubli RX-160 industrial robot using convex optimization method. Journal of Mechanical Science and Technology, 2021, 35, 2185-2195.	0.7	5
948	Interdependence of friction, wear, and noise: A review. Friction, 2021, 9, 1319-1345.	3.4	25
949	Unknown System Dynamics Estimator based Control for Bilateral Teleoperation Systems. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
950	Braking performance oriented multi-objective optimal design of electro-mechanical brake parameters. PLoS ONE, 2021, 16, e0251714.	1.1	4
951	Robust control of uncertain robotic systems: An adaptive friction compensation approach. Science China Technological Sciences, 2021, 64, 1228-1237.	2.0	9
952	Guaranteed Identification of Viscous Friction for a Nonlinear Inverted Pendulum Through Interval Analysis and Set Inversion. , 2021, , .		0
953	Local nonlinear stores induce global modal interactions in the steady-state dynamics of a model airplane. Journal of Sound and Vibration, 2021, 500, 116020.	2.1	0
954	Adaptive model predictive control for an omnidirectional mobile robot with friction compensation and incremental input constraints. Transactions of the Institute of Measurement and Control, 2022, 44, 835-847.	1.1	10
955	Observer-based friction compensation in heavy-duty parallel robot control. Journal of Mechanical Science and Technology, 2021, 35, 3693-3704.	0.7	5
956	PFC-Based Control of Friction-Induced Instabilities in Drive Systems. Machines, 2021, 9, 134.	1.2	3
957	Estimation of the tangential transverse vibrations effect on the friction force with the use of LuGre model. Acta Mechanica, 2021, 232, 3849-3861.	1.1	4
958	The generalized Maxwell-slip friction model applied to starting of small wind turbines. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	2
959	Effect of bearing dissipative torques on the dynamic behavior of H-Darrieus wind turbines. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	4
960	On the Effect of Friction on Tibiofemoral Joint Kinematics. Applied Sciences (Switzerland), 2021, 11, 7516.	1.3	2
961	Self-tuning hybrid fuzzy sliding surface control for pneumatic servo system positioning. Control Engineering Practice, 2021, 113, 104838.	3.2	18
962	Friction-Inclusive Modeling of Sliding Contact Transmission Systems in Robotics. IEEE Transactions on Robotics, 2021, 37, 1252-1267.	7.3	4
963	Topological data analysis for friction modeling. Europhysics Letters, 2021, 135, 56001.	0.7	5
964	Model-Based Condition-Monitoring and Jamming-Tolerant Control of an Electro-Mechanical Flight Actuator with Differential Ball Screws. Actuators, 2021, 10, 230.	1.2	8
965	Analysis of stability and stick-slip motion of a friction-induced vibrating system with dwell-time effect. International Journal of Mechanical Sciences, 2021, 205, 106605.	3.6	12
966	Structural Analysis of 8/6 Switched Reluctance Motor Linear and Non-linear Models. International Journal of Circuits, Systems and Signal Processing, 2021, 15, 1464-1474.	0.2	1
967	Status Identification and Object In-Hand Reorientation Using Force/Torque Sensors. IEEE Sensors Journal, 2021, 21, 20694-20703.	2.4	7

#	ARTICLE	IF	CITATIONS
968	Control Aware of Limitations of Manipulators With Claw for Aerial Robots Imitating Bird's Skeleton. IEEE Robotics and Automation Letters, 2021, 6, 6426-6433.	3.3	11
969	Contact force and torque sensing for serial manipulator based on an adaptive Kalman filter with variable time period. Robotics and Computer-Integrated Manufacturing, 2021, 72, 102210.	6.1	18
970	An investigation of a novel LuGre-based friction force model. Mechanism and Machine Theory, 2021, 166, 104493.	2.7	54
971	Seismic component devices. , 2022, , 637-662.		6
972	Drive with digital control circuit for automatic tracking system. AIP Conference Proceedings, 2021, , .	0.3	0
973	Implementation of Dahl's dynamic friction model to contact mechanics of elastic solids. SN Applied Sciences, 2021, 3, 1.	1.5	2
974	Friction Compensation in Robot Manipulator Using Artificial Neural Network. Lecture Notes in Electrical Engineering, 2021, , 641-650.	0.3	1
975	Dynamic Friction Model Study Applied to a Servomechanism at Low Velocities. Mechanisms and Machine Science, 2021, , 81-94.	0.3	0
976	The Influence of Contact Pressure on the Dynamic Friction Coefficient in Cylindrical Rubber-Metal Contact Geometries. , 2007, , 257-275.		3
977	Two FEM Approaches for the Prediction and Quantification of "Stick-Slip" Phenomena on Rubber-Metal Sliding Contacts. , 2007, , 291-309.		1
979	Adaptive Friction Compensation for Servo Mechanisms. , 2001, , 211-248.		39
980	Friction Compensation and Control Strategy for the Dexterous Robotic Hands. , 2012, , 697-705.		5
981	Blade Bearing Friction Estimation of Operating Wind Turbines. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 213-220.	0.3	3
982	Robot Grasping Foundations. Cognitive Systems Monographs, 2014, , 15-31.	0.1	9
983	LuGre Friction Model: Application to a Pneumatic Actuated System. Lecture Notes in Electrical Engineering, 2015, , 459-468.	0.3	3
984	Force-Sensorless Friction and Gravity Compensation for Robots. Advances in Intelligent Systems and Computing, 2016, , 57-68.	0.5	3
985	Surgical Simulation Robot with Haptics and Friction Compensation. Lecture Notes in Computer Science, 2016, , 69-80.	1.0	2
986	Model and Modeless Friction Compensation: Application to a Defective Haptic Interface. Lecture Notes in Computer Science, 2008, , 94-103.	1.0	6



#	ARTICLE	IF	CITATIONS
988	Adaptive Friction Compensation of Robot Manipulator. Lecture Notes in Electrical Engineering, 2011, , 127-134.	0.3	9
989	An Experimental Validation of Robotic Tactile Mapping in Harsh Environments such as Deep Sea Oil Well Sites. Springer Tracts in Advanced Robotics, 2014, , 557-570.	0.3	3
990	Multi-Legged Robotsâ€™A Review. Cognitive Intelligence and Robotics, 2020, , 11-32.	0.6	8
991	Assessment of alternative methods of preparing internal combustion engine cylinder bore surfaces for frictional improvement. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 3591-3605.	0.8	4
992	Overview on Vehicle Buzz, Squeak and Rattle. , 2012, , 1-25.		4
993	Nonlinear identification and optimal feedforward friction compensation for a motion platform. Mechatronics, 2020, 71, 102408.	2.0	7
994	A new type of relaxation oscillation in a model with rate-and-state friction. Nonlinearity, 2020, 33, 2960-3037.	0.6	7
995	An Iterative Approach for Accurate Dynamic Model Identification of Industrial Robots. IEEE Transactions on Robotics, 2020, 36, 1577-1594.	7.3	55
996	Modeling and Analysis of Spatial Flexible Mechanical Systems With a Spherical Clearance Joint Based on the LuGre Friction Model. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	12
998	Further results on advanced robust iterative learning control and modeling of robotic systems. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622096599.	1.1	1
1000	Clamping force control of electroâ€™mechanical brakes based on driver intentions. PLoS ONE, 2020, 15, e0239608.	1.1	8
1001	Conceptual design, modeling and control of a rigid parallel serial-elastic actuator. Automatisierungstechnik, 2020, 68, 410-422.	0.4	7
1002	An Adaptive Approach to Active Fault-Tolerant Control. Open Automation and Control Systems Journal, 2009, 2, 54-61.	0.9	6
1003	SIMUUN: A SIMULATION ENVIRONMENT FOR UNDULATORY LOCOMOTION. International Journal of Modelling and Simulation, 2006, 26, .	2.3	23
1004	EXPERIMENTAL ANALYSIS ON SPATIAL AND CARTESIAN IMPEDANCE CONTROL FOR THE DEXTEROUS DLR/HIT II HAND. International Journal of Robotics and Automation, 2014, 29, .	0.1	13
1005	Self-Excited Torsional Oscillations under Locked-Wheel Braking: Analysis and Experiments. Tire Science and Technology, 2015, 43, 276-296.	0.3	2
1006	Limit cycling in observer-based controlled mechanical systems with friction. , 2003, , .		4
1007	Ensuring of the industrial robot link motion accuracy parameters in the low-speed zone. Vestnik of Don State Technical University, 2020, 19, 342-348.	0.4	1



#	ARTICLE	IF	CITATIONS
1008	Development and validation of a friction model for simulation of friction clutch dynamics in a multi-body system. , 2012, , .		2
1011	Fine attitude maneuvering by reaction wheel via sliding mode speed driver. Canadian Aeronautics and Space Journal, 2013, 59, 71-80.	0.1	1
1012	Improved PSO tuned Classical Controllers (PID and SMC) for Robotic Manipulator. International Journal of Modern Education and Computer Science, 2015, 7, 47-54.	2.4	8
1014	Development of Zero-Phase-Tracking Man-Machine Interface with Electro-Mechanical Delay of Electromyogram. Journal of the Robotics Society of Japan, 2012, 30, 767-778.	0.0	3
1015	Friction Estimation for Tendon-Driven Robotic Hands. , 2021, , .		2
1016	Locomotion and Control of a Friction-Driven Tripedal Robot. , 2021, , .		2
1017	Tribocatalytically-activated formation of protective friction and wear reducing carbon coatings from alkane environment. Scientific Reports, 2021, 11, 20643.	1.6	14
1018	Contact force estimation for serial manipulator based on weighted moving average with variable span and standard Kalman filter with automatic tuning. International Journal of Advanced Manufacturing Technology, 2022, 118, 3443-3456.	1.5	6
1019	Metoda matematycznego modelowania ukÅ,adu pneumatycznego hamulca pojazdu szynowego. Pojazdy Szynowe, 2005, , 22-40.	0.4	5
1021	Mechaniczne opory tarcia wystÄ™pujÄ...ce w cylindrach hamulcowych pojazdÅ³w szynowych. Pojazdy Szynowe, 2006, , 16-22.	0.4	1
1022	A KALMAN FILTERING APPROACH TO ESTIMATE CLAMP FORCE IN BRAKE-BY-WIRE SYSTEMS. , 2007, , .		0
1023	Dynamic Modeling of Large Scale Heavy Duty Grippers Based on the Response Dead Zone of Counteracting Force. Lecture Notes in Computer Science, 2008, , 879-886.	1.0	0
1024	Flatness based GPI Control for Flexible Robots. Lecture Notes in Electrical Engineering, 2009, , 395-409.	0.3	0
1025	Dynamic Emulation of Tire/Road Friction for Developing Electric Vehicle Control Systems. , 2009, , .		0
1026	Modeling and validation of a planar flexible manipulator. , 2009, , .		0
1027	An experimental result on stabilization via Immersion and Invariance: The cart-pendulum system. , 2009, , .		1
1029	A Haptic Gearshift Interface for Cars. Lecture Notes in Computer Science, 2010, , 315-320.	1.0	1
1030	Modelling and Control of Electromechanical Servo System with High Nonlinearity. , 0, , .		1

#	ARTICLE	IF	CITATIONS
1031	Straight Worms under Adaptive Control and Friction - Part 2: Adaptive Control. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2011, , 65-72.	0.1	0
1033	Dynamic Model of a 7-DOF Whole Arm Manipulator and Validation from Experimental Data. , 2012, , .		1
1034	On the Mode Based Simulation of Dry Friction inside Lap Joints. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 289-298.	0.3	0
1035	Haptic Rendering. Intelligent Systems, Control and Automation: Science and Engineering, 2012, , 97-115.	0.3	0
1036	The Snake Rectilinear Motion Modeling on the Flat Inclined Surface. International Journal of Mechanics and Applications, 2012, 2, 39-42.	9.0	3
1037	Control of Chains of Mass Points in a Frictional Environment. , 2013, , 421-433.		0
1038	Dynamics and Control of a Snake Robot Rectilinear Motion. Topics in Intelligent Engineering and Informatics, 2013, , 151-164.	0.4	0
1039	Diagnosis of Stiction-Related Actuator Problems. Advances in Industrial Control, 2013, , 265-300.	0.4	0
1040	Non-linear Geometric Approach to Friction Estimation and Compensation. Lecture Notes in Mechanical Engineering, 2014, , 355-365.	0.3	0
1041	Presence and Behaviour of Oxides in Roll Gap. , 2014, , 123-138.		0
1042	Advanced $H_{\infty}$ Synthesis of Fully Actuated Robot Manipulators with Frictional Joints. , 2014, , 123-149.		0
1043	Static Friction Compensation for Enhancing Motor Control Precision. Journal of Institute of Control, Robotics and Systems, 2014, 20, 180-185.	0.1	1
1045	SELF ADJUSTING RBNN FOR TWO LINK AND THREE LINK MANIPULATOR. International Journal of Research in Engineering and Technology, 2014, 03, 17-25.	0.1	0
1046	Non-linear Characteristic Modeling of Frictional Suspension Using Measured Data. Transactions of the Korean Society of Mechanical Engineers, A, 2015, 39, 45-53.	0.1	0
1047	A Contact Event Model for an AMB-supported Rotor. Mechanisms and Machine Science, 2015, , 1513-1523.	0.3	0
1048	Adaptive Control of Electro-Mechanical Actuator using Receptive Field Weighted Regression. Advances in Intelligent Systems and Computing, 2016, , 621-626.	0.5	1
1049	Pallet Sliding. Research for Development, 2016, , 155-293.	0.2	0
1050	Phase Shifted Pulse Height Modulated Motor Control for Multiply Actuated Joints to Optimize Operating Characteristics. Journal of Automation, Mobile Robotics and Intelligent Systems, 2016, 10, 15-24.	0.4	0

#	ARTICLE	IF	CITATIONS
1051	Design of a large image derotator for the E-ELT instrument MICADO. , 2016, , .		2
1052	Time Domain Fatigue Analysis on the Upper Rolling Chock of IMO Type B Tank. Journal of the Society of Naval Architects of Korea, 2016, 53, 380-387.	0.2	0
1053	Development of a modular framework for contact force models. , 2017, , 73-81.		0
1054	Experimental Identification of Lu-Gre Friction Model in an Hydraulic Actuator. Lecture Notes in Networks and Systems, 2017, , 133-143.	0.5	2
1055	Dynamics Calibration and Real-Time State Estimation of a Redundant Flexible Joint Robot Based on Encoders and Gyroscopes. Lecture Notes in Electrical Engineering, 2018, , 385-409.	0.3	0
1056	Comparison of Friction Estimation Models for Rotary Triple Inverted Pendulum. International Journal of Mechanical Engineering and Robotics Research, 2018, , 74-78.	0.7	6
1057	Analysis of the Effects of Modeling Depth and Parameter Uncertainties on the System Behavior of a Multifunctional High Lift Actuation System. , 0, , .		0
1058	Analysis and comparison of control strategies for normal adjustment of a robotic drilling end-effector. Journal of Vibroengineering, 2018, 20, 2651-2667.	0.5	2
1059	Lineer Pnömatik Silindirlerin Sırtı Parametrelerinin Değerlendirilmesi için Bir Test Düzeninin Geliştirilmesi. Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, 0, , 131-142.	0.1	0
1060	Dynamic Analysis of Stochastic Friction Systems Using the Generalized Cell Mapping Method. Mechanisms and Machine Science, 2020, , 107-118.	0.3	0
1061	Hybrid Particle Swarm Optimization with Parameter Fixing: Application to Automatic Taxi Management. Journal of Air Transportation, 2020, 28, 36-48.	1.0	1
1062	A nonsmooth approach for the modelling of a mechanical rotary drilling system with friction. Evolution Equations and Control Theory, 2020, 9, 915-934.	0.7	3
1063	Control System Design via Neural Networks using System Structures. , 2020, , .		0
1064	Optimized Servo Design of SS2 Flex Nozzle Control System for Small Satellite Launch Vehicle. , 2020, , .		4
1065	Selection of a Friction Model to Take into Account the Impact on the Dynamics and Positioning Accuracy of Drive Systems. Advances in Intelligent Systems and Computing, 2021, , 309-319.	0.5	1
1066	Disturbance Observer-Based Force Estimation Without Force Sensors. Advances in Industrial Control, 2021, , 29-59.	0.4	0
1067	Data-Driven Internal Model Controller for Mechanical Systems with Friction. IFAC-PapersOnLine, 2021, 54, 233-238.	0.5	1
1068	Robust Planar Dynamic Pivoting by Regulating Inertial and Grip Forces. Springer Proceedings in Advanced Robotics, 2020, , 464-479.	0.9	8

#	ARTICLE	IF	CITATIONS
1069	Mathematics for a Nonsmooth World. Frontiers in Applied Dynamical Systems: Reviews and Tutorials, 2020, , 1-14.	0.5	0
1070	Reduction of the Relative Positioning Error of a Machine Vision System Using Friction Compensation. , 2021, , .		1
1071	Friction Compensated Fuzzy Force Tracking Control of Electro-Hydraulic System. , 2020, , .		1
1072	Combined numerical and experimental studies on the dynamic and quasi-static failure modes of brittle rock. International Journal of Rock Mechanics and Minings Sciences, 2021, 148, 104957.	2.6	16
1073	Non-Linear Modeling and Identification of a Permanent Magnet DC Motor. , 2020, , .		1
1074	Design, implementation and experimental verification of a compensator-based triple-step model reference controller for an automotive electronic throttle. Control Engineering Practice, 2020, 100, 104447.	3.2	11
1075	FORCE RIPPLE COMPENSATOR FOR A VECTOR CONTROLLED PM LINEAR SYNCHRONOUS MOTOR. , 2006, , 135-142.		0
1076	Advanced Tire Friction Modeling and Monitoring. , 2007, , 33-76.		0
1077	Modelling of Joint Friction in Robotic Manipulators with Gear Transmissions. , 2007, , 221-243.		3
1078	Mechanical Manipulation Using Reduced Models of Uncertainty. Springer Tracts in Advanced Robotics, 2008, , 359-374.	0.3	0
1079	Detailed electroâ€dynamic model of an ultraâ€fast disconnecter including the failure mode. High Voltage, 2020, 5, 549-555.	2.7	16
1080	An Experimental Method for Estimating Combined Friction Torque in Vane Type Pneumatic Semi Rotary Actuators. Sakarya University Journal of Science, 0, , .	0.3	2
1082	Hard Dead Zone and Friction Modeling and Identification of a Permanent Magnet DC Motor Non-Linear Model. WSEAS Transactions on Systems and Control, 2020, 15, 527-536.	0.5	3
1084	Soft wearable assistive robotics: exosuits and supernumerary limbs. , 2018, , 219-254.		4
1085	Positioning Improvement for a Laser Scanning System using cSORPD control. , 2021, , .		2
1086	On trajectory tracking control of fluid-driven actuators. Automatisierungstechnik, 2021, 69, 970-980.	0.4	3
1087	Spinning rigid bodies driven by orbital forcing: the role of dry friction. Nonlinear Dynamics, 2022, 107, 3473-3484.	2.7	1
1088	Precise Position Adjustment of Automotive Electrohydraulic Coupling System With Parameter Perturbations. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, .	0.9	1

#	ARTICLE	IF	CITATIONS
1089	Adaptive feed-forward friction compensation through developing an asymmetrical dynamic friction model. Mechanism and Machine Theory, 2022, 170, 104691.	2.7	9
1090	Model-free and Adaptive Control of a DC Motor: A Comparative Study. , 2020, , .		2
1091	A Modification of the LuGre Friction Model for Potential Energy. , 2020, , .		1
1092	Descriptor Recurrent Neural Network Model and $\hat{\alpha}$ , $\hat{\gamma}$ Gain Control Design for Systems with Dry Friction. , 2020, , .		0
1093	Modeling Cable-Driven Joint Dynamics and Friction: a Bond-Graph Approach. , 2020, , .		3
1094	Robust tracking with FPGA for high-speed laser galvanometer scanning. , 2021, , .		1
1095	Walking Robot Control with a Machine Learning-based Ground Reaction Force Predictor and Generated Linear Contact Model. , 2021, , .		0
1096	Design and implementation of human driving data-based lane-keeping assistance system for electric bus. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2022, 236, 3005-3026.	1.1	3
1097	Influence of Dry Friction on the Dynamics of Cantilevered Pipes Conveying Fluid. Applied Sciences (Switzerland), 2022, 12, 724.	1.3	2
1098	Development and Electromyographic Validation of a Compliant Human-Robot Interaction Controller for Cooperative and Personalized Neurorehabilitation. Frontiers in Neurorobotics, 2021, 15, 734130.	1.6	7
1099	A Nonlinear Friction Identification Method Combining Separable Least Squares Approach and Kinematic Orthogonal Property. International Journal of Precision Engineering and Manufacturing, 2022, 23, 139-152.	1.1	6
1100	A review of dynamic parameters identification for manipulator control. , 0, 1, 5.		3
1101	Ultra-local Model Design Based on Real-time Algebraic and Derivative Estimators for Position Control of a DC Motor. Journal of Control, Automation and Electrical Systems, 2022, 33, 1217-1228.	1.2	2
1102	Mechanical design and friction modelling of a cable-driven upper-limb exoskeleton. Mechanism and Machine Theory, 2022, 171, 104746.	2.7	7
1104	Extracting Human-Exoskeleton Interaction Torque for Cable-Driven Upper-Limb Exoskeleton Equipped With Torque Sensors. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4269-4280.	3.7	11
1105	Seismic control of structure with phase control active tuned mass damper. Structural Control and Health Monitoring, 2022, 29, .	1.9	3
1106	Disturbance observer-based robust motor control enhanced by adaptive neural network in the absence of velocity measurement. International Journal of Robust and Nonlinear Control, 2022, 32, 5023-5047.	2.1	3
1107	Simulation of the Wheel-Surface Interaction Dynamics for All-Terrain Vehicles. Applied Mechanics, 2022, 3, 360-374.	0.7	3

#	ARTICLE	IF	CITATIONS
1108	Development of a novel pneumatic positioning actuator equipped with new continuous air impulse generators. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 6410-6423.	3.4	1
1109	Optimizing Vertical Jumping Height of Single-Legged Robots with Passive TOE Joints Using the Genetic Algorithm. <i>International Journal of Humanoid Robotics</i> , 2022, 19, .	0.6	2
1110	A Compound Scheme Based on Improved ADRC and Nonlinear Compensation for Electromechanical Actuator. <i>Actuators</i> , 2022, 11, 93.	1.2	7
1111	Identification of dynamic parameters of closed-chain industrial robots considering motor couplings. <i>Computers and Electrical Engineering</i> , 2022, 99, 107740.	3.0	4
1112	3D projection of the LuGre friction model adapted to varying normal forces. <i>Multibody System Dynamics</i> , 2022, 55, 267-291.	1.7	6
1113	Computation of Direct Sensitivities of Spatial Multibody Systems With Joint Friction. <i>Journal of Computational and Nonlinear Dynamics</i> , 2022, 17, .	0.7	4
1114	Experimentally verified prediction of friction coefficient and wear rate during running-in dry contact. <i>Tribology International</i> , 2022, 170, 107508.	3.0	22
1115	Phân tích chuyên sâu về ứng dụng của mô hình ma sát trong quá trình vận hành của các máy móc có dao cắt ma sát trong quá trình gia công. <i>ngôn ngữ và kỹ thuật</i> , 2022, , 157-166.		
1116	Design, rapid manufacturing and modeling of a reduced-scale forwarder crane with closed kinematic chain. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 6748-6773.	3.4	3
1119	Sequential contact-based adaptive grasping for robotic hands. <i>International Journal of Robotics Research</i> , 2022, 41, 543-570.	5.8	3
1120	synchronous properties of the friction phenomenon. <i>Tribology International</i> , 2022, 173, 107623.	3.0	1
1121	Exoskeleton Dynamic Modeling and Identification with Load and Temperature-Dependent Friction Model. , 2021, , .		1
1122	Static Friction in a Cable-Driven Transmission Modeling and Identification of Load Effects. <i>Lubricants</i> , 2022, 10, 100.	1.2	0
1123	Unified Model of Disturbances Acting Upon Gimbal Seeker in Anti-Tank Guided Missile. <i>Journal of Automation, Mobile Robotics and Intelligent Systems</i> , 0, , 54-69.	0.4	0
1124	A generalization of the Valanis model for friction modelling. <i>Mechanical Systems and Signal Processing</i> , 2022, 179, 109339.	4.4	10
1126	Accurate inertia identification method of machine tool feed drives by considering the influence of current loop dynamics and friction. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 0, , 095965182211002.	0.7	1
1127	A model free robot control method for dragging an object on a planar surface by applying top contact forces. , 2022, , .		1
1128	Full-State Control of Rotary Pendulum Using LQR Controller. <i>Advances in IT Standards and Standardization Research Series</i> , 2022, , 75-117.	0.2	0

#	ARTICLE	IF	CITATIONS
1129	Enhanced fractional order sliding mode control for a class of fractional order uncertain systems with multiple mismatched disturbances. ISA Transactions, 2023, 133, 147-159.	3.1	8
1130	Object Inserting Operation with Admittance Control of A 4-DOF Hydraulic Manipulator with Rotary Vane Actuators. , 2022, , .		0
1131	A stick-slip actuator for suppressing the backward motion by introducing a flexible beam. Journal of Intelligent Material Systems and Structures, 2023, 34, 364-376.	1.4	1
1132	Identification of friction in inerter with constant and variable inertance. Meccanica, 2022, 57, 1955-1973.	1.2	3
1133	Cooperative Underwater Vehicle-Manipulator Operation Using Redundant Resolution Method. International Journal of Precision Engineering and Manufacturing, 2022, 23, 1003-1017.	1.1	6
1134	Trajectory tracking for nonlinear systems using extended quadratic port-Hamiltonian models without input and state coordinate transformations. Systems and Control Letters, 2022, 167, 105325.	1.3	1
1135	Efficient ODE Substructure Identification of the Acrobot under Partial Observability using Neural Networks and Direct Multiple Shooting. , 2022, , .		0
1136	Friction Parameters Dynamic Change and Compensation for a Novel Dual-Drive Micro-Feeding System. Actuators, 2022, 11, 236.	1.2	3
1137	Minimisation of Failure Transients in a Fail-Safe Electro-Mechanical Actuator Employed for the Flap Movables of a High-Speed Helicopter-Plane. Aerospace, 2022, 9, 527.	1.1	0
1138	Simulation of Heavy-Duty Vehicles for the Use in Digital Twins. Lecture Notes in Networks and Systems, 2022, , 127-138.	0.5	0
1139	Modelling and Identification of a Pneumatic Positioning System: A Preliminary Study. Mechanisms and Machine Science, 2022, , 414-421.	0.3	0
1140	Integrated Pressure Estimation and Control for Electro-hydraulic Brake Systems of Electric Vehicles Considering Actuator Characteristics and Vehicle Longitudinal Dynamics. IEEE/ASME Transactions on Mechatronics, 2023, 28, 197-209.	3.7	0
1141	Enhanced Speed Control of a Drive With Rejection of Periodical Disturbances. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 551-560.	4.8	1
1142	Composite Sliding Mode Control of High Precision Electromechanical Actuator Considering Friction Nonlinearity. Actuators, 2022, 11, 265.	1.2	1
1143	A comparison of spherical joint models in the dynamic analysis of rigid mechanical systems: ideal, dry, hydrodynamic and bushing approaches. Multibody System Dynamics, 2022, 56, 221-266.	1.7	12
1144	Energy Efficient Pneumatics: Aspects of Control and Systems Theory. International Journal of Fluid Power, 0, , .	0.7	1
1145	Master Cylinder Pressure Estimation of the Electro-Hydraulic Brake System Based on Modeling and Fusion of the Friction Character and the Pressure-Position Character. IEEE Transactions on Vehicular Technology, 2023, 72, 1748-1762.	3.9	0
1147	Adaptive control for position and force tracking of uncertain teleoperation with actuators saturation and asymmetric varying time delays. International Journal of Nonlinear Sciences and Numerical Simulation, 2024, 24, 3113-3132.	0.4	2



#	ARTICLE	IF	CITATIONS
1148	An alternate state-space algorithm for dynamic solution, sensitivity analysis and parameter identification of dry friction systems. <i>Journal of Sound and Vibration</i> , 2023, 544, 117383.	2.1	2
1149	Adaptive periodic-disturbance observer based composite control for SGCMG gimbal servo system with rotor vibration. <i>Control Engineering Practice</i> , 2023, 132, 105407.	3.2	5
1150	Piston-Seals Friction Modeling Using a Modified Maxwell Slip Formation and Genetic Identification Algorithm. <i>IEEE Access</i> , 2022, 10, 126516-126524.	2.6	2
1151	Principle and Control of Active Engine Mount Based on Magnetostrictive Actuator. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2022, 35, .	1.9	2
1152	Nonlinear model identification and statistical verification using experimental data with a case study of the UR5 manipulator joint parameters. <i>Robotica</i> , 2023, 41, 1348-1370.	1.3	2
1153	Advanced Motor Control for Improving the Trajectory Tracking Accuracy of a Low-Cost Mobile Robot. <i>Machines</i> , 2023, 11, 14.	1.2	4
1154	Improved friction model applied to plane sliding connections by a large deformation FEM formulation. <i>Latin American Journal of Solids and Structures</i> , 2023, 20, .	0.6	0
1155	Numerical modeling and simulation of friction models for mechanical systems: A brief review. <i>Materials Today: Proceedings</i> , 2023, , .	0.9	2
1156	Fuzzy Event-Triggered Super Twisting Sliding Mode Control for Position Tracking of Permanent Magnet Synchronous Motors Under Unknown Disturbances. <i>IEEE Transactions on Industrial Informatics</i> , 2023, 19, 9843-9854.	7.2	10
1157	Modelling and Simulation of 2 DOF Gimbal System with Experimental System Identification. , 2022, , .		1
1158	Non-intrusive Efficiency Estimation of Inverter-Fed Induction Motors. <i>IEEE Transactions on Energy Conversion</i> , 2023, , 1-10.	3.7	1
1159	A framework for fault detection and diagnostics of articulated collaborative robots based on hybrid series modelling of Artificial Intelligence algorithms. <i>Journal of Intelligent Manufacturing</i> , 0, , .	4.4	2
1160	Stability Analysis of a Mass-Sliding Belt System and Experimental Validation as Motivated by the Brake Squeal Problem. <i>Journal of Vibration Engineering and Technologies</i> , 2024, 12, 395-414.	1.3	0
1161	Frictional Locomotion of a Radially Symmetric Tripedal Robot. <i>Journal of Nonlinear Science</i> , 2023, 33, .	1.0	0
1162	Node-to-node contact-friction problems using run-time parameter updates on a conventional force-deformation finite element. <i>Finite Elements in Analysis and Design</i> , 2023, 218, 103918.	1.7	0
1163	External Torque Estimation for Mobile Manipulators: A Comparison of Model-based and LSTM Methods. , 2022, , .		0
1164	Motion control of hydraulic actuators with nonlinear friction compensation: Applied to variable valve systems of diesel engine. <i>ISA Transactions</i> , 2023, 137, 561-573.	3.1	3
1165	Physical Modeling. <i>Springer Topics in Signal Processing</i> , 2022, , 609-707.	0.2	0



#	ARTICLE	IF	CITATIONS
1166	A Control Method Based on a Simple Dynamic Optimizer: An Application to Micromachines with Friction. <i>Micromachines</i> , 2023, 14, 387.	1.4	0
1167	Observer-based Robust Control: Its Application to Permanent Magnet Synchronous Motors. <i>IEEE Journal of Industry Applications</i> , 2023, 12, 575-587.	0.9	1
1168	Energy Dissipation on an Elastic Interface as a Metric for Evaluating Three Friction Models. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2023, 90, .	1.1	0
1169	The Potential of a Hybrid Powertrain in Fuel Consumption and Thermal Drive-Off Element Load for Drive-Off Procedures Regarding Driving Styles. , 0, , .		0
1170	Combining physics and deep learning to learn continuous-time dynamics models. <i>International Journal of Robotics Research</i> , 2023, 42, 83-107.	5.8	3
1180	Investigation and Compensation of Hysteresis in Robot Joints with Cycloidal Drives. , 2023, , 177-187.		0
1183	Decentralized Motion Control for a Novel Planar Motor Intralogistics System. , 2023, , .		0
1184	A Differentiable Newtonâ€Euler Algorithm for Real-World Robotics. <i>Springer Tracts in Advanced Robotics</i> , 2023, , 9-34.	0.3	0
1185	Combining Physics and Deep Learning for Continuous-Time Dynamics Models. <i>Springer Tracts in Advanced Robotics</i> , 2023, , 35-70.	0.3	1
1186	Force Estimation using a High-Fidelity Strain Wave Gear Model. , 2023, , .		0
1188	Vibration Control Using Frictional Tuned Mass Dampers with Stick-Slip Motion. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2024, , 221-228.	0.3	0
1189	An Autotuning Procedure for Motion Control Systems: Method and at-the-edge Implementation. , 2023, , .		0
1192	Nonlinear Model Identification of a Ball and Beam Mechanism using Experimental Data. , 2023, , .		0
1197	Whole-Body Torque Control Without Joint Position Control Using Vibration-Suppressed Friction Compensation for Bipedal Locomotion of Gear-Driven Torque Sensorless Humanoid. , 2023, , .		0
1200	Adaptive fault-tolerant control of an electromechanical actuator considering viscous and static Friction. , 2023, , .		0