

Li-Chen Fu

List of Publications by Year in descending order

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469
papers

5,954
citations

117625

34
h-index

133252

59
g-index

471
all docs

471
docs citations

471
times ranked

4249
citing authors

#	ARTICLE	IF	CITATIONS
1	Federated learning for predicting clinical outcomes in patients with COVID-19. <i>Nature Medicine</i> , 2021, 27, 1735-1743.	30.7	300
2	Model-Free Predictive Current Control for Interior Permanent-Magnet Synchronous Motor Drives Based on Current Difference Detection Technique. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 667-681.	7.9	265
3	Service-Oriented Smart-Home Architecture Based on OSGi and Mobile-Agent Technology. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2007, 37, 193-205.	2.9	156
4	Adaptive stabilization of a class of uncertain switched nonlinear systems with backstepping control. <i>Automatica</i> , 2014, 50, 2128-2135.	5.0	135
5	Human-Centered Robot Navigation—Towards a Harmoniously Human—Robot Coexisting Environment. <i>IEEE Transactions on Robotics</i> , 2011, 27, 99-112.	10.3	123
6	Robust Location-Aware Activity Recognition Using Wireless Sensor Network in an Attentive Home. <i>IEEE Transactions on Automation Science and Engineering</i> , 2009, 6, 598-609.	5.2	109
7	A Portable Vision-Based Real-Time Lane Departure Warning System: Day and Night. <i>IEEE Transactions on Vehicular Technology</i> , 2009, 58, 2089-2094.	6.3	101
8	An adaptive control scheme for coordinated multimanipulator systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 1993, 9, 226-231.	2.3	100
9	NNMA: An effective memetic algorithm for solving multiobjective permutation flow shop scheduling problems. <i>Expert Systems With Applications</i> , 2011, 38, 5986-5999.	7.6	98
10	Globally stable robust tracking of nonlinear systems using variable structure control and with an application to a robotic manipulator. <i>IEEE Transactions on Automatic Control</i> , 1990, 35, 1345-1350.	5.7	97
11	Integrating Appearance and Edge Features for Sedan Vehicle Detection in the Blind-Spot Area. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012, 13, 737-747.	8.0	89
12	Nonlinear adaptive control for flexible-link manipulators. <i>IEEE Transactions on Automation Science and Engineering</i> , 1997, 13, 140-148.	2.3	86
13	Intelligent robot deburring using adaptive fuzzy hybrid position/force control. <i>IEEE Transactions on Automation Science and Engineering</i> , 2000, 16, 325-335.	2.3	84
14	A fully adaptive decentralized control of robot manipulators. <i>Automatica</i> , 2006, 42, 1761-1767.	5.0	82
15	A memetic algorithm for minimizing total weighted tardiness on parallel batch machines with incompatible job families and dynamic job arrival. <i>Computers and Operations Research</i> , 2010, 37, 2257-2269.	4.0	75
16	Using dispatching rules for job shop scheduling with due date-based objectives. <i>International Journal of Production Research</i> , 2007, 45, 3245-3262.	7.5	67
17	A Petri net based approach to modeling and scheduling for an FMS and a case study. <i>IEEE Transactions on Industrial Electronics</i> , 1994, 41, 593-601.	7.9	65
18	Petri-net and GA-based approach to modeling, scheduling, and performance evaluation for wafer fabrication. <i>IEEE Transactions on Automation Science and Engineering</i> , 2001, 17, 619-636.	2.3	65

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19	Controllability of spacecraft systems in a central gravitational field. IEEE Transactions on Automatic Control, 1994, 39, 2426-2441.	5.7	63
20	Region-Level Motion-Based Background Modeling and Subtraction Using MRFs. IEEE Transactions on Image Processing, 2007, 16, 1446-1456.	9.8	62
21	Output tracking control of nonlinear systems with mismatched uncertainties. Systems and Control Letters, 1992, 18, 39-47.	2.3	59
22	Inhabitants Tracking System in a Cluttered Home Environment Via Floor Load Sensors. IEEE Transactions on Automation Science and Engineering, 2008, 5, 10-20.	5.2	59
23	Adaptive Approach to Motion Controller of Linear Induction Motor with Friction Compensation. IEEE/ASME Transactions on Mechatronics, 2007, 12, 480-490.	5.8	56
24	Output Feedback Sliding Mode Control for a Stewart Platform With a Nonlinear Observer-Based Forward Kinematics Solution. IEEE Transactions on Control Systems Technology, 2013, 21, 176-185.	5.2	56
25	Mapping rule-based systems into neural architecture. Knowledge-Based Systems, 1990, 3, 48-56.	7.1	55
26	Design and Realization of a Framework for Human-System Interaction in Smart Homes. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 15-31.	2.9	55
27	Vehicle Detection under Various Lighting Conditions by Incorporating Particle Filter. , 2007, , .		54
28	Multilayered Image Processing for Multiscale Harris Corner Detection in Digital Realization. IEEE Transactions on Industrial Electronics, 2010, 57, 1799-1805.	7.9	50
29	Using Channel-Wise Attention for Deep CNN Based Real-Time Semantic Segmentation With Class-Aware Edge Information. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1041-1051.	8.0	49
30	A novel dual-axis repulsive maglev guiding system with permanent magnet: modeling and controller design. IEEE/ASME Transactions on Mechatronics, 2003, 8, 77-86.	5.8	48
31	Adaptive Robust Bank-to-Turn Missile Autopilot Design Using Neural Networks. Journal of Guidance, Control, and Dynamics, 1997, 20, 346-354.	2.8	47
32	Design and Experiment of a Macro-Micro Planar Maglev Positioning System. IEEE Transactions on Industrial Electronics, 2012, 59, 4128-4139.	7.9	45
33	Modeling and controller design of a maglev guiding system for application in precision positioning. IEEE Transactions on Industrial Electronics, 2003, 50, 493-506.	7.9	44
34	Demand-side management in residential community realizing sharing economy with bidirectional PEV while additionally considering commercial area. International Journal of Electrical Power and Energy Systems, 2020, 116, 105512.	5.5	44
35	Driver assistance system for lane detection and vehicle recognition with night vision. , 2005, , .		43
36	On-board vision system for lane recognition and front-vehicle detection to enhance driver's awareness. , 2004, , .		41

#	ARTICLE	IF	CITATIONS
37	Modeling, scheduling, and performance evaluation for wafer fabrication: a queueing colored Petri-net and GA-based approach. IEEE Transactions on Automation Science and Engineering, 2006, 3, 330-338.	5.2	39
38	Mechanism Design and Mechatronic Control of a Multifunctional Test Bed for Bedridden Healthcare. IEEE/ASME Transactions on Mechatronics, 2010, 15, 234-241.	5.8	38
39	Non-linear sensorless indirect adaptive speed control of induction motor with unknown rotor resistance and load. International Journal of Adaptive Control and Signal Processing, 2000, 14, 109-140.	4.1	36
40	Context-aware assisted interactive robotic walker for Parkinson's disease patients. , 2012, , .		36
41	Adaptive robust tracking of nonlinear systems and with an application to a robotic manipulator. Systems and Control Letters, 1990, 15, 339-348.	2.3	35
42	An integrated, flexible, and Internet-based control architecture for home automation system in the Internet era. , 0, , .		35
43	Adaptive hybrid control strategies for constrained robots. IEEE Transactions on Automatic Control, 1993, 38, 598-603.	5.7	34
44	A robust MRAC using variable structure design for multivariable plants. Automatica, 1996, 32, 833-848.	5.0	33
45	Multitarget Visual Tracking Based Effective Surveillance With Cooperation of Multiple Active Cameras. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 234-247.	5.0	33
46	Observer-based backstepping control of a 6-dof parallel hydraulic manipulator. Control Engineering Practice, 2015, 36, 100-112.	5.5	33
47	Nonlinear observer-based adaptive tracking control for induction motors with unknown load. IEEE Transactions on Industrial Electronics, 1995, 42, 579-586.	7.9	31
48	Design of optimal midcourse guidance sliding-mode control for missiles with TVC. IEEE Transactions on Aerospace and Electronic Systems, 2003, 39, 824-837.	4.7	31
49	Hybrid User-Assisted Incremental Model Adaptation for Activity Recognition in a Dynamic Smart-Home Environment. IEEE Transactions on Human-Machine Systems, 2013, 43, 421-436.	3.5	31
50	Modeling and Controller Design of a Precision Hybrid Scanner for Application in Large Measurement-Range Atomic Force Microscopy. IEEE Transactions on Industrial Electronics, 2014, 61, 3704-3712.	7.9	31
51	Reading with robot and human companions in library literacy activities: A comparison study. British Journal of Educational Technology, 2020, 51, 1884-1900.	6.3	31
52	A novel adaptive fuzzy variable structure control for a class of nonlinear uncertain systems via backstepping. Fuzzy Sets and Systems, 2001, 122, 83-106.	2.7	30
53	Human Localization via Multi-Cameras and Floor Sensors in Smart Home. , 2006, , .		30
54	Real-time people detection and tracking for indoor surveillance using multiple top-view depth cameras. , 2014, , .		30

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55	Precision Sinusoidal Local Scan for Large-Range Atomic Force Microscopy With Auxiliary Optical Microscopy. IEEE/ASME Transactions on Mechatronics, 2015, 20, 226-236.	5.8	29
56	A Reciprocal and Extensible Architecture for Multiple-Target Tracking in a Smart Home. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2011, 41, 120-129.	2.9	28
57	Near-Infrared-Based Nighttime Pedestrian Detection Using Grouped Part Models. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1929-1940.	8.0	27
58	Adaptive Decentralized Control of Robot Manipulators Driven by Current-Fed Induction Motors. IEEE/ASME Transactions on Mechatronics, 2005, 10, 465-468.	5.8	26
59	An efficient algorithm for finding a collision-free path among polyhedral obstacles. Journal of Field Robotics, 1990, 7, 129-137.	0.7	25
60	Sensory Cues Guided Rehabilitation Robotic Walker Realized by Depth Image-Based Gait Analysis. IEEE Transactions on Automation Science and Engineering, 2016, 13, 171-180.	5.2	25
61	An Automatic Assessment System for Alzheimer's Disease Based on Speech Using Feature Sequence Generator and Recurrent Neural Network. Scientific Reports, 2019, 9, 19597.	3.3	25
62	Strategies for Inference Mechanism of Conditional Random Fields for Multiple-Resident Activity Recognition in a Smart Home. Lecture Notes in Computer Science, 2010, , 417-426.	1.3	25
63	A new paradigm for rule-based scheduling in the wafer probe centre. International Journal of Production Research, 2008, 46, 4111-4133.	7.5	24
64	A two-stage hybrid memetic algorithm for multiobjective job shop scheduling. Expert Systems With Applications, 2011, 38, 10983-10998.	7.6	24
65	Lissajous Hierarchical Local Scanning to Increase the Speed of Atomic Force Microscopy. IEEE Nanotechnology Magazine, 2015, 14, 810-819.	2.0	24
66	New stability theorems for averaging and their application to the convergence analysis of adaptive identification and control schemes. , 1985, , .		23
67	Variable Structure-Based Nonlinear Missile Guidance/Autopilot Design With Highly Maneuverable Actuators. IEEE Transactions on Control Systems Technology, 2004, 12, 944-949.	5.2	23
68	Multi-user Preference Model and Service Provision in a Smart Home Environment. , 2007, , .		23
69	Robust Adaptive Control of Linear Induction Motors With Unknown End-Effect and Secondary Resistance. IEEE Transactions on Energy Conversion, 2008, 23, 412-422.	5.2	23
70	Using a family of critical ratio-based approaches to minimize the number of tardy jobs in the job shop with sequence dependent setup times. European Journal of Operational Research, 2009, 196, 78-92.	5.7	23
71	Developing a service robot for a children's library: A design-based research approach. Journal of the Association for Information Science and Technology, 2014, 65, 290-301.	2.9	23
72	Sensorless speed tracking of induction motor with unknown torque based on maximum power transfer. IEEE Transactions on Industrial Electronics, 2002, 49, 911-924.	7.9	22

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73	New approach to robust model reference adaptive control for a class of plants. International Journal of Control, 1991, 53, 1359-1375.	1.9	21
74	A new approach to model reference control for a class of arbitrarily fast time-varying unknown plants. Automatica, 1992, 28, 437-440.	5.0	21
75	Dual-Stage Piezoelectric Nano-Positioner Utilizing a Range-Extended Optical Fiber Fabry-Perot Interferometer. IEEE/ASME Transactions on Mechatronics, 2007, 12, 291-298.	5.8	21
76	Region-Level Motion-Based Foreground Segmentation Under a Bayesian Network. IEEE Transactions on Circuits and Systems for Video Technology, 2009, 19, 522-532.	8.3	21
77	An Optimal Compensation Framework for Linear Quadratic Gaussian Control Over Lossy Networks. IEEE Transactions on Automatic Control, 2015, 60, 2692-2697.	5.7	21
78	The effect of electroacupuncture merged with rehabilitation for frozen shoulder syndrome: A single-blind randomized sham-acupuncture controlled study. Journal of the Formosan Medical Association, 2020, 119, 81-88.	1.7	21
79	Motion Control. Springer Handbooks, 2016, , 163-194.	0.6	20
80	A Novel Design and Control to Improve Positioning Precision and Robustness for a Planar Maglev System. IEEE Transactions on Industrial Electronics, 2019, 66, 4860-4869.	7.9	20
81	Interaction models for multiple-resident activity recognition in a smart home. , 2010, , .		19
82	Context-Aware Energy Saving System With Multiple Comfort-Constrained Optimization in M2M-Based Home Environment. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1400-1414.	5.2	19
83	Adaptive force control of single-link mechanism with joint flexibility. IEEE Transactions on Automation Science and Engineering, 1991, 7, 540-545.	2.3	18
84	Rule-based scheduling in wafer fabrication with due date-based objectives. Computers and Operations Research, 2012, 39, 2820-2835.	4.0	18
85	Nonlinear autopilot and guidance for a highly maneuverable missile. , 0, , .		17
86	Energy-Responsive Aggregate Context for Energy Saving in a Multi-Resident Environment. IEEE Transactions on Automation Science and Engineering, 2014, 11, 715-729.	5.2	17
87	A new robust MRAC using variable structure design for relative degree two plants. Automatica, 1992, 28, 911-925.	5.0	16
88	Robust output tracking for nonlinear systems with weakly non-minimum phase. International Journal of Control, 1993, 58, 301-316.	1.9	16
89	Exponentially stable non-linear control for speed regulation of induction motor with field-oriented PI-controller. International Journal of Adaptive Control and Signal Processing, 2000, 14, 297-312.	4.1	16
90	Context-aware home energy saving based on Energy-Prone Context. , 2012, , .		16

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91	Robust Output Feedback Stabilization of Switched Nonlinear Systems with Average Dwell Time. Asian Journal of Control, 2014, 16, 264-276.	3.0	16
92	Effective Tilting Angles for a Dual Probes AFM System to Achieve High-Precision Scanning. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2512-2521.	5.8	16
93	Nonlinear adaptive control for manipulator system with gear backlash. , 0, , .		15
94	Design, implementation and self-tuning adaptive control of maglev guiding system. Mechatronics, 2000, 10, 215-237.	3.3	15
95	Preference model assisted activity recognition learning in a smart home environment. , 2009, , .		15
96	A two-phase evolutionary algorithm for multiobjective mining of classification rules. , 2010, , .		15
97	Near-infrared based nighttime pedestrian detection by combining multiple features. , 2011, , .		15
98	Design and Control of Phase-Detection Mode Atomic Force Microscopy for Reconstruction of Cell Contours in Three Dimensions. IEEE Nanotechnology Magazine, 2014, 13, 639-649.	2.0	15
99	Design and Implementation of a New Six-DOF Maglev Positioner With a Fluid Bearing. IEEE/ASME Transactions on Mechatronics, 2011, 16, 449-458.	5.8	14
100	A hybrid constraint handling mechanism with differential evolution for constrained multiobjective optimization. , 2011, , .		14
101	Global Attitude Representation and its Lie Bracket. , 1993, , .		13
102	A virtual factory based approach to on-line simulation and scheduling for an FMS and a case study. Journal of Intelligent Manufacturing, 2001, 12, 269-279.	7.3	13
103	Sensorless Adaptive Backstepping Speed Control of Induction Motor. , 2006, , .		13
104	Service robots: System design for tracking people through data fusion and initiating interaction with the human group by inferring social situations. Robotics and Autonomous Systems, 2016, 83, 188-202.	5.1	13
105	A Real-time Demand-side Management System Considering User Behavior Using Deep Q-Learning in Home Area Network. , 2019, , .		13
106	Early Detection of Parkinson's Disease by Neural Network Models. IEEE Access, 2022, 10, 19033-19044.	4.2	13
107	Slow-drift instability in model reference adaptive systems – an averaging analysis. International Journal of Control, 1987, 45, 503-527.	1.9	12
108	A Robust Model Reference Adaptive Control Using Variable-Structure Adaptation for a Class of Plants. , 1989, , .		12

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109	A new decentralized model reference adaptive control for a class of interconnected dynamic systems using variable structure design. International Journal of Adaptive Control and Signal Processing, 1993, 7, 33-43.	4.1	12
110	Nonlinear adaptive speed and torque control of induction motors with unknown rotor resistance. IEEE Transactions on Industrial Electronics, 2001, 48, 391-401.	7.9	12
111	Vision based obstacle warning system for on-road driving. , 0, , .		12
112	Toward a Message-Oriented Application Model and its Middleware Support in Ubiquitous Environments. , 2008, , .		12
113	Toward Reliable Service Management in Message-Oriented Pervasive Systems. IEEE Transactions on Services Computing, 2011, 4, 183-195.	4.6	12
114	A VNS-based hyper-heuristic with adaptive computational budget of local search. , 2012, , .		12
115	Personalizing robot behavior for interruption in social human-robot interaction. , 2014, , .		12
116	Socially-Aware Navigation of Omnidirectional Mobile Robot with Extended Social Force Model in Multi-Human Environment. , 2019, , .		12
117	A Novel Deep Learning-Based System for Triage in the Emergency Department Using Electronic Medical Records: Retrospective Cohort Study. Journal of Medical Internet Research, 2021, 23, e27008.	4.3	12
118	Fully automated robotic assembly cell: scheduling and simulation. , 0, , .		11
119	A new design of adaptive fuzzy hybrid force/position controller for robot manipulators. , 0, , .		11
120	Adaptive fuzzy hybrid force/position control for robot manipulators following contours of an uncertain object. , 0, , .		11
121	Visual Tracking in Cluttered Environments Using the Visual Probabilistic Data Association Filter. , 2006, 22, 1292-1297.		11
122	Postfitting Control Scheme for Periodic Piezoscanner Driving. Japanese Journal of Applied Physics, 2006, 45, 1917-1921.	1.5	11
123	On-line human action recognition by combining joint tracking and key pose recognition. , 2012, , .		11
124	Online Gait Detection with an Automatic Mobile Trainer Inspired by Neuro-Developmental Treatment. Sensors, 2020, 20, 3389.	3.8	11
125	Assessing Schizophrenia Patients Through Linguistic and Acoustic Features Using Deep Learning Techniques. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 947-956.	4.9	11
126	Efficient adaptive hybrid control strategies for robots in constrained manipulation. , 0, , .		10

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127	Adaptive robust control for flexible manipulators. , 0, , .		10
128	Holonic supervisory control and data acquisition kernel for 21st century intelligent building system. , 0, , .		10
129	Nonlinear adaptive backstepping motion control of linear induction motor. , 2002, , .		10
130	Colored timed Petri-net and GA based approach to modeling and scheduling for wafer probe center. , 0, , .		10
131	Multiple People Visual Tracking in a Multi-Camera System for Cluttered Environments. , 2006, , .		10
132	The Forward Kinematics of the 6-6 Stewart Platform Using Extra Sensors. , 2006, , .		10
133	Adaptive Control of Switched Systems with Application to HVAC System. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	10
134	A human-system interaction framework and algorithm for UbiComp-based smart home. , 2008, , .		10
135	A hybrid approach to RBPF based SLAM with grid mapping enhanced by line matching. , 2009, , .		10
136	Visual tracking of human head and arms with a single camera. , 2010, , .		10
137	An interactive robotic walker for assisting elderly mobility in senior care unit. , 2010, , .		10
138	Spatio-temporal Feature Enhanced Semi-supervised Adaptation for Activity Recognition in IoT-Based Context-Aware Smart Homes. , 2013, , .		10
139	Grasping unknown objects using depth gradient feature with eye-in-hand RGB-D sensor. , 2014, , .		10
140	IMU-Based Estimation of Lower Limb Motion Trajectory With Graph Convolution Network. IEEE Sensors Journal, 2021, 21, 24549-24557.	4.7	10
141	Nonlinear control of robot manipulators using adaptive fuzzy sliding mode control. , 0, , .		9
142	A nonlinear missile guidance controller with pulse type input devices. , 1999, , .		9
143	Passivity based control of the double inverted pendulum driven by a linear induction motor. , 0, , .		9
144	Adaptive backstepping tracking control of the Stewart platform. , 2004, , .		9

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145	Creating Robust Activity Maps Using Wireless Sensor Network in a Smart Home. , 2007, , .		9
146	Variable structure based switching adaptive control for a class of unknown switched linear systems. , 2009, , .		9
147	Deep learning for integrated hand detection and pose estimation. , 2016, , .		9
148	Mood Estimation as a Social Profile Predictor in an Autonomous, Multi-Session, Emotional Support Robot for Children. , 2019, , .		9
149	A Digital Screening System for Alzheimer Disease Based on a Neuropsychological Test and a Convolutional Neural Network: System Development and Validation. JMIR Medical Informatics, 2022, 10, e31106.	2.6	9
150	A GA embedded dynamic search algorithm over a Petri net model for an FMS scheduling. , 0, , .		8
151	Adaptive control of interconnected systems using neural network design. , 0, , .		8
152	Dynamic scheduling approach to group control of elevator systems with learning ability. , 0, , .		8
153	A robust visual servo system for tracking an arbitrary-shaped object by a new active contour method. , 2004, , .		8
154	A Region-Level Motion-Based Background Modeling and Subtraction Using MRFs. , 0, , .		8
155	A memetic algorithm for parallel batch machine scheduling with incompatible job families and dynamic job arrivals. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	8
156	Hide and Not Easy to Seek: A Hybrid Weaving Strategy for Context-Aware Service Provision in a Smart Home. , 2008, , .		8
157	Variable structure model reference adaptive control of unknown switched linear systems with relative degree greater than one. , 2009, , .		8
158	Human-oriented recognition for intelligent interactive office robot. , 2013, , .		8
159	Integrating appearance and edge features for on-road bicycle and motorcycle detection in the nighttime. , 2014, , .		8
160	An ant colony optimization algorithm for multi-objective clustering in mobile ad hoc networks. , 2014, , .		8
161	Nonlinear adaptive control of a flexible manipulator for automated deburring. , 0, , .		7
162	Multi-agent based dynamic scheduling for a flexible assembly system. , 0, , .		7

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163	Modeling, analysis, simulation and control of semiconductor manufacturing systems: a generalized stochastic colored timed Petri net approach. , 0, , .		7
164	Design of modern elevator group control systems. , 0, , .		7
165	Solving the FMS scheduling problem by critical ratio-based heuristics and the genetic algorithm. , 2004, , .		7
166	Human Vestibular Based (HVB) Senseless Maneuver Optimal Washout Filter Design for VR-based Motion Simulator. , 2006, , .		7
167	Hybrid system based adaptive control for the nonlinear HVAC system. , 2006, , .		7
168	E-Negotiation of Dependent Multiple Issues by Using a Joint Search Strategy. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	7
169	Monocular multi-human detection using Augmented Histograms of Oriented Gradients. , 2008, , .		7
170	An optimal washout filter design for a motion platform with senseless and angular scaling maneuvers. , 2010, , .		7
171	Design and implementation of an atomic force microscope with adaptive sliding mode controller for large image scanning. , 2011, , .		7
172	Hierarchical generalized context inference or context-aware smart homes. , 2012, , .		7
173	Static and dynamic minimum energy broadcast problem in wireless ad-hoc networks: A PSO-based approach and analysis. Applied Soft Computing Journal, 2013, 13, 4786-4801.	7.2	7
174	An Efficient Data Storage Method of NoSQL Database for HEM Mobile Applications in IoT. , 2014, , .		7
175	Visual Tracking of Human Head and Arms Using Adaptive Multiple Importance Sampling on a Single Camera in Cluttered Environments. IEEE Sensors Journal, 2014, 14, 2267-2275.	4.7	7
176	Active Learning on Service Providing Model: Adjustment of Robot Behaviors Through Human Feedback. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 701-711.	3.8	7
177	Activity Recognition System for Dementia in Smart Homes based on Wearable Sensor Data. , 2018, , .		7
178	A Screening System for Mild Cognitive Impairment Based on Neuropsychological Drawing Test and Neural Network. , 2019, , .		7
179	A Fast and Low-Cost Repetitive Movement Pattern Indicator for Massive Dementia Screening. IEEE Transactions on Automation Science and Engineering, 2020, 17, 771-783.	5.2	7
180	Identifying Mild Cognitive Impairment by Using Humanâ€“Robot Interactions. Journal of Alzheimer's Disease, 2022, 85, 1129-1142.	2.6	7

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181	A new robust model reference control with improved performance for a class of multivariable unknown plants. International Journal of Adaptive Control and Signal Processing, 1992, 6, 69-93.	4.1	6
182	Petri net based dynamic scheduling of an elevator system. , 0, , .		6
183	Nonlinear control of a wheeled mobile robot with nonholonomic constraints. , 0, , .		6
184	Adaptive and Robust Control for Nonlinear HVAC System. , 2006, , .		6
185	Inhabitants Tracking in a Cluttered Home Environment via Floor Load Sensors. , 2006, , .		6
186	Design and implementation of a new 3-DOF electromagnetic micropositioner utilizing flexure mechanism. , 2006, , .		6
187	Lot Dispatching and Scheduling Integrating OHT Traffic Information in the 300mm Wafer Fab. , 2007, , .		6
188	Multiobjective lot scheduling and dynamic OHT routing in a 300-mm wafer fab. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	6
189	Multiobjective job shop scheduling using memetic algorithm and shifting bottleneck procedure. , 2009, , .		6
190	Modular Design of a Reconfigurable Electromagnetic Robot. Advanced Robotics, 2010, 24, 1059-1078.	1.8	6
191	Design and implementation of an electromagnetically damped positioner with flexure suspension. , 2011, , .		6
192	A Cloud-Based Accessible Architecture for Large-Scale ADL Analysis Services. , 2011, , .		6
193	An Optimal Washout Filter Design with Fuzzy Compensation for a Motion Platform. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8433-8438.	0.4	6
194	Representative Body Points on Top-View Depth Sequences for Daily Activity Recognition. , 2015, , .		6
195	Dynamic demand-side management with user's privacy concern in residential community. , 2016, , .		6
196	Learning a deep network with spherical part model for 3D hand pose estimation. , 2017, , .		6
197	Recommendation dialogue system through pragmatic argumentation. , 2017, , .		6
198	Interactive torque controller with electromyography intention prediction implemented on exoskeleton robot NTUH-II. , 2017, , .		6

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199	Temporal-Contrastive Appearance Network for Facial Expression Recognition. , 2018, , .		6
200	Interactive Question-Posing System for Robot-Assisted Reminiscence From Personal Photographs. IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 439-450.	3.8	6
201	An adaptive variable structure control for a class of nonlinear systems. Systems and Control Letters, 1993, 21, 49-57.	2.3	5
202	Flexible control system for robot assembly automation. , 0, , .		5
203	Dual-axis Maglev guiding system modeling and controller design for wafer transportation. , 0, , .		5
204	Nonlinear optimal sliding mode midcourse controller with thrust vector control. , 2002, , .		5
205	Modeling, scheduling, and prediction for wafer fabrication: queueing colored Petri-net and GA based approach. , 0, , .		5
206	Adaptive backstepping speed/position control with friction compensation for linear induction motor. , 0, , .		5
207	Design, analysis and control of an electro-magnetic actuator. , 0, , .		5
208	Adaptive lot/equipment matching strategy and GA based approach for optimized dispatching and scheduling in a wafer probe center. , 2004, , .		5
209	Predictive washout filter design for vr-based motion simulator. , 0, , .		5
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