

Prabhakar Pagilla

List of Publications by Year in Descending Order

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

83
papers

740
citations

15
h-index

24
g-index

105
ext. papers

984
ext. citations

3.2
avg, IF

4.76
L-index

#	Paper	IF	Citations
83	Uniform Coverage Tool Path Generation for Robotic Surface Finishing of Curved Surfaces. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 4931-4938	4.2	0
82	Path-Constrained and Collision-Free Optimal Trajectory Planning for Robot Manipulators. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 1-12	4.9	
81	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3049-3056	4.2	6
80	Dual-edge robotic gear chamfering with registration error compensation. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021 , 69, 102082	9.2	2
79	A novel 3D path following control framework for robots performing surface finishing tasks. <i>Mechatronics</i> , 2021 , 76, 102540	3	3
78	Event-triggered equivalent-input-disturbance estimation and control for disturbance attenuation. <i>IFAC Journal of Systems and Control</i> , 2021 , 16, 100137	0.9	0
77	Task Learning, Intent Prediction, and Adaptive Blended Shared Control With Application to Excavators. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 18-28	4.8	8
76	A thermomechanical and photochemical description of the phase change process in roll-to-roll nanoimprinting lithography. <i>International Journal of Engineering Science</i> , 2021 , 169, 103564	5.7	0
75	Shared Control With Efficient Subgoal Identification and Adjustment for Human-Robot Collaborative Tasks. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-10	4.8	1
74	A novel path following control framework for robot manipulators using a rotation minimizing frame 2021 ,		1
73	Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2020 , 7, 1212-1224	4	2
72	State-Estimator-Based Asynchronous Repetitive Control of Discrete-Time Markovian Switching Systems. <i>Complexity</i> , 2020 , 2020, 1-13	1.6	2
71	A Review of Manufacturing Process Control. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020 , 142,	3.3	4
70	A 3D Path Following Control Scheme for Robot Manipulators. <i>IFAC-PapersOnLine</i> , 2020 , 53, 9968-9973	0.7	1
69	A novel force and motion control strategy for robotic chamfering of gears. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8710-8715	0.7	
68	Vehicle platooning with constant spacing strategies and multiple vehicle look ahead information. <i>IET Intelligent Transport Systems</i> , 2020 , 14, 589-600	2.4	4
67	2020 ,		1

66	Subgoal Learning via Operator Command Quantification for Human-Machine Shared Control Task Modeling 2020 ,		2
65	A Novel Path Following Scheme for Robot End-Effectors 2020 ,		1
64	Robotic deburring and chamfering of complex geometries in high-mix/low-volume production applications 2020 ,		2
63	Operator Intent Prediction with Subgoal Transition Probability Learning for Shared Control Applications 2020 ,		1
62	Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 2705-2715	7.3	23
61	Periodic Event-Triggered Dynamic Output Feedback Dissipative Control With Stochastic Detection. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 1069-1073	3.5	0
60	Asynchronous repetitive control of switched systems via periodic event-based dynamic output feedback. <i>IMA Journal of Mathematical Control and Information</i> , 2020 , 37, 644-673	1.1	2
59	Periodic event-based asynchronous filtering of switched systems. <i>Journal of the Franklin Institute</i> , 2019 , 356, 10058-10075	4	2
58	2019 ,		8
57	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 1954-1963	6.1	64
56	Robust repetitive control of semi-Markovian jump systems. <i>International Journal of Systems Science</i> , 2019 , 50, 116-129	2.3	6
55	Periodic event-triggered dynamic output feedback control of switched systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2019 , 31, 247-264	4.5	30
54	Modeling and Analysis of Web Span Tension Dynamics Considering Thermal and Viscoelastic Effects in Roll-to-Roll Manufacturing. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018 , 140,	3.3	4
53	Modeling and Control of Web Lateral Dynamics in Roll-to-Roll Manufacturing: New Governing Equations and Control Strategies 2018 ,		1
52	Methods for Blended Shared Control of Hydraulic Excavators with Learning and Prediction 2018 ,		7
51	Two-Channel Periodic Event-Triggered Observer-Based Repetitive Control for Periodic Reference Tracking 2018 ,		2
50	Repetitive Control of Discrete-Time Markov Jump Linear Systems 2018 ,		2
49	Blended Shared Control with Subgoal Adjustment 2018 ,		6

48	Blended Shared Control of a Hydraulic Excavator. <i>IFAC-PapersOnLine</i> , 2017 , 50, 14928-14933	0.7	15
47	Vehicle Platooning with Multiple Vehicle Look-ahead Information. <i>IFAC-PapersOnLine</i> , 2017 , 50, 5768-5773	0.7	15
46	Design of a model-based observer for estimation of steel strip tension in continuous galvanizing/annealing lines 2016 ,		5
45	Reactive Power Control for Multiple Synchronous Generators Connected in Parallel. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4371-4378	7	8
44	Intent aware shared control in off-nominal situations 2016 ,		10
43	Load speed regulation in compliant mechanical transmission systems using feedback and feedforward control actions. <i>ISA Transactions</i> , 2016 , 63, 355-364	5.5	2
42	Output Regulation of Nonlinear Systems With Application to Roll-to-Roll Manufacturing Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 1089-1098	5.5	36
41	Design and implementation of adaptive PI control schemes for web tension control in roll-to-roll (R2R) manufacturing. <i>ISA Transactions</i> , 2015 , 56, 276-87	5.5	31
40	Modeling of Temperature Distribution in Moving Webs in Roll-to-Roll Manufacturing. <i>Journal of Thermal Science and Engineering Applications</i> , 2014 , 6,	1.9	9
39	Analysis and Minimization of Interaction in Decentralized Control Systems With Application to Roll-to-Roll Manufacturing. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 520-530	4.8	6
38	2013 ,		2
37	Effect of Compliance and Backlash on the Output Speed of a Mechanical Transmission System. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	7
36	Fixed-Order H_{∞} Tension Control in the Unwinding Section of a Web Handling System Using a Pendulum Dancer. <i>IEEE Transactions on Control Systems Technology</i> , 2011 ,	4.8	8
35	An interaction metric for decentralized control systems based on the Perron root 2010 ,		1
34	Location of optical mouse sensors on mobile robots for odometry 2010 ,		3
33	Optimal Web Guiding. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132,	1.6	11
32	Limitations of employing undirected information flow graphs for the maintenance of rigid formations for heterogeneous vehicles. <i>International Journal of Engineering Science</i> , 2010 , 48, 1164-1178	5.7	21
31	Modeling and design of LTI controllers for multirate systems 2009 ,		1

30	Unwinding web tension control of a strip processing plant using a pendulum dancer 2009 ,		3
29	Distributed Constraint Force Approach for Coordination of Multiple Mobile Robots. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2009 , 56, 5-21	2.9	4
28	A Design Technique for Multirate Linear Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 1342-1349	4.8	6
27	Web Flutter Measurement Sensor. <i>IEEE Sensors Journal</i> , 2009 , 9, 834-835	4	
26	Fiber-Optic Sensor for Web Velocity Measurement. <i>IEEE Sensors Journal</i> , 2008 , 8, 1099-1104	4	1
25	Fault tolerant robust flight control using surface actuator hinge moments 2008 ,		1
24	Design and Development of a New Edge Sensor for Web Guiding. <i>IEEE Sensors Journal</i> , 2007 , 7, 698-706	4	3
23	Design and Analysis of a Disk Drive Actuator for Commutational Ramp Loading. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2007 , 129, 346-360	3	
22	A Decentralized Model Reference Adaptive Controller for Large-Scale Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2007 , 12, 154-163	5.5	60
21	Adaptive Estimation of Time-Varying Parameters in Linearly Parametrized Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006 , 128, 691-695	1.6	18
20	Adaptive Controller and Observer Design for a Class of Nonlinear Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2006 , 128, 712-717	1.6	5
19	Design and implementation of a robust switching control scheme for a class of constrained robot tasks. <i>International Journal of Systems Science</i> , 2006 , 37, 303-321	2.3	5
18	Uncontrollable Singularities in Nonlinear Systems 2006 ,		1
17	A note on the necessary conditions for the algebraic Riccati equation. <i>IMA Journal of Mathematical Control and Information</i> , 2005 , 22, 181-186	1.1	3
16	A decentralized output feedback controller for a class of large-scale interconnected nonlinear systems 2004 ,		2
15	Controller and observer design for Lipschitz nonlinear systems 2004 ,		23
14	An experimental study of planar impact of a robot manipulator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2004 , 9, 123-128	5.5	25
13	Periodic Tension Disturbance Attenuation in Web Process Lines Using Active Dancers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2003 , 125, 361-371	1.6	34

12	Mechatronic design and control of a robot system interacting with an external environment. <i>Mechatronics</i> , 2002 , 12, 791-811	3	5
11	Robotic Surface Finishing Processes: Modeling, Control, and Experiments. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2001 , 123, 93-102	1.6	30
10	Adaptive control of robotic surface finishing processes 2001 ,		13
9	Dynamics and control of accumulators in continuous strip processing lines. <i>IEEE Transactions on Industry Applications</i> , 2001 , 37, 934-940	4.3	20
8	A stable transition controller for constrained robots. <i>IEEE/ASME Transactions on Mechatronics</i> , 2001 , 6, 65-74	5.5	39
7	Robust observer-based control of an aluminum strip processing line. <i>IEEE Transactions on Industry Applications</i> , 2000 , 36, 865-870	4.3	32
6	A study on control of accumulators in web processing lines		3
5	Static and dynamic friction compensation in trajectory tracking control of robots		2
4	Design and experimental evaluation of a stable transition controller for geometrically constrained robots		3
3	Adaptive control of a robot carrying a time-varying payload		1
2	Dynamics and control of accumulators in continuous strip processing lines		1
1	An experimental study of planar impact of a robot manipulator		1