

Prabhakar R 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.

53
papers

782
citations

16
h-index

26
g-index

58
ext. papers

1,032
ext. citations

3.1
avg, IF

4.65
L-index

#	Paper	IF	Citations
53	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
52	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3049-3056	4.2	6
51	Dual-edge robotic gear chamfering with registration error compensation. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021 , 69, 102082	9.2	2
50	A novel 3D path following control framework for robots performing surface finishing tasks. <i>Mechatronics</i> , 2021 , 76, 102540	3	3
49	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
48	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
47	A novel force and motion control strategy for robotic chamfering of gears. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8710-8715	0.7	
46	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
45	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
44	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
43	2019 ,		8
42	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2019 , 20, 1954-1963	6.1	64
41	Robust repetitive control of semi-Markovian jump systems. <i>International Journal of Systems Science</i> , 2019 , 50, 116-129	2.3	6
40	Periodic event-triggered dynamic output feedback control of switched systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2019 , 31, 247-264	4.5	30
39	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
38	Robotic Surface Finishing of Curved Surfaces: Real-Time Identification of Surface Profile and Control 2018 ,		3
37	Repetitive Control of Discrete-Time Markov Jump Linear Systems 2018 ,		2

36	Temperature Distribution in Moving Webs Heated by Radiation Panels: Model Development and Experimental Validation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	6
35	Design of a model-based observer for estimation of steel strip tension in continuous galvanizing/annealing lines 2016 ,		5
34	Modeling and control of a rotating turret winder used in roll-to-roll manufacturing. <i>Control Engineering Practice</i> , 2015 , 41, 164-175	3.9	3
33	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
32	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
31	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
30	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
29	Adaptive control of web tension in a heat transfer section of a roll-to-roll manufacturing process line 2014 ,		1
28	Modeling Print Registration in Roll-to-Roll Printing Presses. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	21
27	Governing Equations for Web Tension and Web Velocity in the Presence of Nonideal Rollers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2013 , 135,	1.6	12
26	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
25	Input-state model matching and ripple-free response for dual-rate systems. <i>Systems and Control Letters</i> , 2011 , 60, 815-824	2.4	4
24	Optimal location of mouse sensors on mobile robots for position sensing. <i>Automatica</i> , 2011 , 47, 2267-2277	3.7	14
23	Location of optical mouse sensors on mobile robots for odometry 2010 ,		3
22	Ripple-free conditions in multirate systems using LTI controllers 2010 ,		2
21	Optimal Web Guiding. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2010 , 132,	1.6	11
20	Conditions for the ripple-free response of multirate systems using linear time-invariant controllers. <i>Systems and Control Letters</i> , 2010 , 59, 510-516	2.4	7
19	Design of linear time-invariant controllers for multirate systems. <i>Automatica</i> , 2010 , 46, 1315-1319	5.7	18

18	Unwinding web tension control of a strip processing plant using a pendulum dancer 2009 ,		3
17	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
16	Distributed Formation Flight Control Using Constraint Forces. <i>Journal of Guidance, Control, and Dynamics</i> , 2009 , 32, 112-120	2.1	23
15	A Design Technique for Multirate Linear Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 1342-1349	4.8	6
14	Fiber-Optic Sensor for Web Velocity Measurement. <i>IEEE Sensors Journal</i> , 2008 , 8, 1099-1104	4	1
13	Design and Development of a New Edge Sensor for Web Guiding. <i>IEEE Sensors Journal</i> , 2007 , 7, 698-706	4	3
12	Formation of a Group of Vehicles With Full Information Using Constraint Forces. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 654-661	1.6	15
11	A Decentralized Model Reference Adaptive Controller for Large-Scale Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , 2007 , 12, 154-163	5.5	60
10	. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 106-117	4.8	117
9	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
8	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
7	Characteristics of active and passive dancers: A comparative study. <i>Control Engineering Practice</i> , 2006 , 14, 409-423	3.9	32
6	A Study on Control of Accumulators in Web Processing Lines. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2004 , 126, 453-461	1.6	11
5	Adaptive Control of Mechanical Systems With Time-Varying Parameters and Disturbances. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2004 , 126, 520-530	1.6	19
4	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
3	Mechatronic design and control of a robot system interacting with an external environment. <i>Mechatronics</i> , 2002 , 12, 791-811	3	5
2	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
1	An adaptive output feedback controller for robot arms: stability and experiments. <i>Automatica</i> , 2001 , 37, 983-995	5.7	41

