Prabhakar R Pagilla

List of Publications by Citations

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	. *IEEE Transactions on Control Systems Technology*, **2007**, 15, 106-117	4.8	117
52	. *IEEE Transactions on Intelligent Transportation Systems*, **2019**, 20, 1954-1963	6.1	64
51	A Decentralized Model Reference Adaptive Controller for Large-Scale Systems. *IEEE/ASME Transactions on Mechatronics*, **2007**, 12, 154-163	5.5	60
50	An adaptive output feedback controller for robot arms: stability and experiments. *Automatica*, **2001**, 37, 983-995	5.7	41
49	Output Regulation of Nonlinear Systems With Application to Roll-to-Roll Manufacturing Systems. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 1089-1098	5.5	36
48	Periodic Tension Disturbance Attenuation in Web Process Lines Using Active Dancers. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2003**, 125, 361-371	1.6	34
47	Characteristics of active and passive dancers: A comparative study. *Control Engineering Practice*, **2006**, 14, 409-423	3.9	32
46	Design and implementation of adaptive PI control schemes for web tension control in roll-to-roll (R2R) manufacturing. *ISA Transactions*, **2015**, 56, 276-87	5.5	31
45	Robotic Surface Finishing Processes: Modeling, Control, and Experiments. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2001**, 123, 93-102	1.6	30
44	Periodic event-triggered dynamic output feedback control of switched systems. *Nonlinear Analysis: Hybrid Systems*, **2019**, 31, 247-264	4.5	30
43	Distributed Formation Flight Control Using Constraint Forces. *Journal of Guidance, Control, and Dynamics*, **2009**, 32, 112-120	2.1	23
42	Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 2705-2715	7.3	23
41	Modeling Print Registration in Roll-to-Roll Printing Presses. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2013**, 135,	1.6	21
40	Adaptive Control of Mechanical Systems With Time-Varying Parameters and Disturbances. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2004**, 126, 520-530	1.6	19
39	Design of linear time-invariant controllers for multirate systems. *Automatica*, **2010**, 46, 1315-1319	5.7	18
38	Adaptive Estimation of Time-Varying Parameters in Linearly Parametrized Systems. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2006**, 128, 691-695	1.6	18
37	Formation of a Group of Vehicles With Full Information Using Constraint Forces. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2007**, 129, 654-661	1.6	15

36	Optimal location of mouse sensors on mobile robots for position sensing. *Automatica*, **2011**, 47, 2267-2272	3.7	14
35	Governing Equations for Web Tension and Web Velocity in the Presence of Nonideal Rollers. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2013**, 135,	1.6	12
34	Optimal Web Guiding. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2010**, 132,	1.6	11
33	A Study on Control of Accumulators in Web Processing Lines. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2004**, 126, 453-461	1.6	11
32	Modeling of Temperature Distribution in Moving Webs in Roll-to-Roll Manufacturing. *Journal of Thermal Science and Engineering Applications*, **2014**, 6,	1.9	9
31	**2019**,		8
30	Effect of Compliance and Backlash on the Output Speed of a Mechanical Transmission System. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2012**, 134,	1.6	7
29	Conditions for the ripple-free response of multirate systems using linear time-invariant controllers. *Systems and Control Letters*, **2010**, 59, 510-516	2.4	7
28	Temperature Distribution in Moving Webs Heated by Radiation Panels: Model Development and Experimental Validation. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2017**, 139,	1.6	6
27	Analysis and Minimization of Interaction in Decentralized Control Systems With Application to Roll-to-Roll Manufacturing. *IEEE Transactions on Control Systems Technology*, **2014**, 22, 520-530	4.8	6
26	A Design Technique for Multirate Linear Systems. *IEEE Transactions on Control Systems Technology*, **2009**, 17, 1342-1349	4.8	6
25	. *IEEE Robotics and Automation Letters*, **2021**, 6, 3049-3056	4.2	6
24	Robust repetitive control of semi-Markovian jump systems. *International Journal of Systems Science*, **2019**, 50, 116-129	2.3	6
23	Design of a model-based observer for estimation of steel strip tension in continuous galvanizing/annealing lines **2016**,		5
22	Design and implementation of a robust switching control scheme for a class of constrained robot tasks. *International Journal of Systems Science*, **2006**, 37, 303-321	2.3	5
21	Mechatronic design and control of a robot system interacting with an external environment. *Mechatronics*, **2002**, 12, 791-811	3	5
20	Modeling and Analysis of Web Span Tension Dynamics Considering Thermal and Viscoelastic Effects in Roll-to-Roll Manufacturing. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2018**, 140,	3.3	4
19	Input-state model matching and ripple-free response for dual-rate systems. *Systems and Control Letters*, **2011**, 60, 815-824	2.4	4

18	Distributed Constraint Force Approach for Coordination of Multiple Mobile Robots. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2009**, 56, 5-21	2.9	4
17	Vehicle platooning with constant spacing strategies and multiple vehicle look ahead information. *IET Intelligent Transport Systems*, **2020**, 14, 589-600	2.4	4
16	Modeling and control of a rotating turret winder used in roll-to-roll manufacturing. *Control Engineering Practice*, **2015**, 41, 164-175	3.9	3
15	Location of optical mouse sensors on mobile robots for odometry **2010**,		3
14	H□unwinding web tension control of a strip processing plant using a pendulum dancer **2009**,		3
13	Design and Development of a New Edge Sensor for Web Guiding. *IEEE Sensors Journal*, **2007**, 7, 698-706	4	3
12	A novel 3D path following control framework for robots performing surface finishing tasks. *Mechatronics*, **2021**, 76, 102540	3	3
11	Robotic Surface Finishing of Curved Surfaces: Real-Time Identification of Surface Profile and Control **2018**,		3
10	Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *IEEE Transactions on Control of Network Systems*, **2020**, 7, 1212-1224	4	2
9	Ripple-free conditions in multirate systems using LTI controllers **2010**,		2
8	Dual-edge robotic gear chamfering with registration error compensation. *Robotics and Computer-Integrated Manufacturing*, **2021**, 69, 102082	9.2	2
7	Asynchronous repetitive control of switched systems via periodic event-based dynamic output feedback. *IMA Journal of Mathematical Control and Information*, **2020**, 37, 644-673	1.1	2
6	Repetitive Control of Discrete-Time Markov Jump Linear Systems **2018**,		2
5	Adaptive control of web tension in a heat transfer section of a roll-to-roll manufacturing process line **2014**,		1
4	Fiber-Optic Sensor for Web Velocity Measurement. *IEEE Sensors Journal*, **2008**, 8, 1099-1104	4	1
3	Event-triggered equivalent-input-disturbance estimation and control for disturbance attenuation. *IFAC Journal of Systems and Control*, **2021**, 16, 100137	0.9	0
2	Uniform Coverage Tool Path Generation for Robotic Surface Finishing of Curved Surfaces. *IEEE Robotics and Automation Letters*, **2022**, 7, 4931-4938	4.2	0
1	A novel force and motion control strategy for robotic chamfering of gears. *IFAC-PapersOnLine*, **2020**, 53, 8710-8715	0.7	