

Ram Iyer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1872561/publications.pdf>

Version: 2024-02-01

32
papers

570
citations

1040018

9
h-index

752679

20
g-index

32
all docs

32
docs citations

32
times ranked

368
citing authors

#	ARTICLE	IF	CITATIONS
1	Approximate inversion of the Preisach hysteresis operator with application to control of smart actuators. IEEE Transactions on Automatic Control, 2005, 50, 798-810.	5.7	181
2	Control of hysteretic systems through inverse compensation. IEEE Control Systems, 2009, 29, 83-99.	0.8	132
3	Hysteresis Parameter Identification With Limited Experimental Data. IEEE Transactions on Magnetics, 2004, 40, 3227-3239.	2.1	58
4	Tour Planning for an Unmanned Air Vehicle Under Wind Conditions. Journal of Guidance, Control, and Dynamics, 2007, 30, 1299-1306.	2.8	49
5	Modeling and control of hysteresis. IEEE Control Systems, 2009, 29, 26-28.	0.8	48
6	New, Fast Numerical Method for Solving Two-Point Boundary-Value Problems. Journal of Guidance, Control, and Dynamics, 2004, 27, 301-304.	2.8	24
7	On a low-dimensional model for ferromagnetism. Nonlinear Analysis: Theory, Methods & Applications, 2005, 61, 1447-1482.	1.1	19
8	On a low-dimensional model for magnetostriction. Physica B: Condensed Matter, 2006, 372, 378-382.	2.7	10
9	Study of a play-like operator. Physica B: Condensed Matter, 2008, 403, 456-459.	2.7	10
10	Macroscopic Theory for Capillary-Pressure Hysteresis. Langmuir, 2015, 31, 2390-2397.	3.5	7
11	Simultaneous Estimation of Corneal Topography, Pachymetry, and Curvature. IEEE Transactions on Medical Imaging, 2018, 37, 2463-2473.	8.9	7
12	Optimal control problems on parallelizable Riemannian manifolds: theory and applications. ESAIM - Control, Optimisation and Calculus of Variations, 2006, 12, 1-11.	1.3	5
13	Recursive estimation of the Preisach density function for a smart actuator. , 2004, , ,		3
14	On the representation of hysteresis operators of Preisach type. Physica B: Condensed Matter, 2006, 372, 40-44.	2.7	3
15	Extension of hysteresis operators of Preisach-type to real, Lebesgue measurable functions. Physica B: Condensed Matter, 2008, 403, 437-439.	2.7	3
16	Investigation of energy dissipation due to contact angle hysteresis in capillary effect. Journal of Physics: Conference Series, 2016, 727, 012003.	0.4	3
17	On the solution of operator equation problems with application to Preisach density estimation. , 2016, , ,		2
18	Smoothing Splines on Unit Ball Domains with Application to Corneal Topography. IEEE Transactions on Medical Imaging, 2017, 36, 518-526.	8.9	2

#	ARTICLE	IF	CITATIONS
19	Trajectory Planning For A Reentry Vehicle Under Failure Conditions. Proceedings of the American Control Conference, 2007, , .	0.0	1
20	Asymptotic behavior of a low-dimensional model for magnetostriction for periodic input. Physica B: Condensed Matter, 2008, 403, 257-260.	2.7	1
21	On an Optical Inertial Navigation Systemâ€™ Part II. IEEE Transactions on Automatic Control, 2008, 53, 1864-1875.	5.7	1
22	Energy dissipation due to viscosity during deformation of a capillary surface subject to contact angle hysteresis. Physica B: Condensed Matter, 2014, 435, 28-30.	2.7	1
23	Tensor SVD and distributed control. , 2005, , .		0
24	On an Optical Inertial Navigation Systemâ€™ Part I. IEEE Transactions on Automatic Control, 2008, 53, 1850-1863.	5.7	0
25	Model of a multiple-lens, single-fiber system in a compound eye. International Journal of Applied Electromagnetics and Mechanics, 2008, 28, 73-78.	0.6	0
26	Micromagnetics with eddy currents. Journal of Physics: Conference Series, 2011, 268, 012011.	0.4	0
27	Proportional Derivative Control of Hysteretic Systems. SIAM Journal on Control and Optimization, 2013, 51, 3415-3433.	2.1	0
28	Model of a contact lens and tear layer at static equilibrium. , 2013, , .		0
29	Stabilization of a system with saturating, non-monotone hysteresis and frequency dependent power losses by a PD controller. Journal of Physics: Conference Series, 2015, 585, 012006.	0.4	0
30	On a two-point boundary value problem for the 2-D Navier-Stokes equations arising from capillary effect. Mathematical Modelling of Natural Phenomena, 2020, 15, 17.	2.4	0
31	Robust Control of Magnetostrictive Actuators With Uncertain System. , 2008, , .		0
32	On the Existence and Uniqueness of Minimum Time Optimal Trajectory for a Micro Air Vehicle under Wind Conditions. Lecture Notes in Control and Information Sciences, 2009, , 57-77.	1.0	0