

P S Krishnaprasad

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,776
citations

759233

12
h-index

794594

19
g-index

42
all docs

42
docs citations

42
times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Symmetry and reduction in collectives: low-dimensional cyclic pursuit. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160465.	2.1	7
2	Subriemannian geodesics for coupled nonholonomic integrators. , 2016, , .		0
3	Optimality, reduction and collective motion. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140606.	2.1	11
4	Control-theoretic data smoothing. , 2014, , .		4
5	Symmetry and reduction in collectives: cyclic pursuit strategies. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130264.	2.1	28
6	Trajectory smoothing as a linear optimal control problem. , 2012, , .		13
7	Mutual Motion Camouflage in 3D*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4483-4488.	0.4	7
8	Portraits of cyclic pursuit. , 2011, , .		16
9	Extremal collective behavior. , 2010, , .		4
10	Cyclic pursuit in three dimensions. , 2010, , .		18
11	Motion camouflage for coverage. , 2010, , .		9
12	Geometry of cyclic pursuit. , 2009, , .		21
13	Motion camouflage with sensorimotor delay. , 2007, , .		7
14	Stochastic control for long range cooperative optical beam tracking. , 2007, , .		0
15	Echolocating Bats Use a Nearly Time-Optimal Strategy to Intercept Prey. PLoS Biology, 2006, 4, e108.	5.6	192
16	Motion camouflage in three dimensions. , 2006, , .		47
17	Oscillations, SE(2)-snakes and motion control: A study of the Roller Racer. Dynamical Systems, 2001, 16, 347-397.	0.4	76
18	Adaptive optics with advanced phase-contrast techniques II High-resolution wave-front control. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 1300.	1.5	41

#	ARTICLE	IF	CITATIONS
19	Pattern-forming systems for control of large arrays of actuators. Journal of Nonlinear Science, 2001, 11, 239-277.	2.1	8
20	The Euler-Poincaré equations and double bracket dissipation. Communications in Mathematical Physics, 1996, 175, 1-42.	2.2	154
21	Nonholonomic mechanical systems with symmetry. Archive for Rational Mechanics and Analysis, 1996, 136, 21-99.	2.4	504
22	<title>Smart motor concept based on piezoelectric-magnetostrictive resonance</title>. , 1995, , .		3
23	On the geometry and dynamics of floating four-bar linkages. Dynamical Systems, 1994, 9, 19-45.	0.7	10
24	Gyroscopic control and stabilization. Journal of Nonlinear Science, 1992, 2, 367-415.	2.1	74
25	Asymptotic Stability, Instability and Stabilization of Relative Equilibria. , 1991, , .		3
26	Hamiltonian dynamics of a rigid body in a central gravitational field. Celestial Mechanics and Dynamical Astronomy, 1990, 50, 349-386.	1.4	75
27	The dynamics of coupled planar rigid bodies. II. Bifurcations, periodic solutions, and chaos. Journal of Dynamics and Differential Equations, 1989, 1, 269-298.	1.9	26
28	The Hamiltonian structure of nonlinear elasticity: The material and convective representations of solids, rods, and plates. Archive for Rational Mechanics and Analysis, 1988, 104, 125-183.	2.4	201
29	The dynamics of coupled planar rigid bodies. Part I: reduction, equilibria and stability. Dynamical Systems, 1988, 3, 25-49.	0.7	35
30	Dynamics for space based robotic manipulation. , 1987, , .		0
31	Hamiltonian structures and stability for rigid bodies with flexible attachments. Archive for Rational Mechanics and Analysis, 1987, 98, 71-93.	2.4	116
32	Disturbance decoupling control of the swing equations. , 1984, , .		2
33	Lie Poisson structures and dual-spin spacecraft. , 1983, , .		4
34	Symmetries and reduced linearization: Part II. , 1983, , .		5
35	Intrinsic filtering equations. , 1982, , .		0
36	Dynamic observers as asymptotic limits of recursive filters. , 1982, , .		8

#	ARTICLE	IF	CITATIONS
37	Deformation of lie algebras and the Wei-Norman equations. , 1980, , .		3