

# P S Krishnaprasad

## List of Publications by Year in descending order

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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	Nonholonomic mechanical systems with symmetry. Archive for Rational Mechanics and Analysis, 1996, 136, 21-99.	2.4	504
2	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
3	Echolocating Bats Use a Nearly Time-Optimal Strategy to Intercept Prey. PLoS Biology, 2006, 4, e108.	5.6	192
4	The Euler-Poincaré equations and double bracket dissipation. Communications in Mathematical Physics, 1996, 175, 1-42.	2.2	154
5	Hamiltonian structures and stability for rigid bodies with flexible attachments. Archive for Rational Mechanics and Analysis, 1987, 98, 71-93.	2.4	116
6	Oscillations, SE(2)-snakes and motion control: A study of the Roller Racer. Dynamical Systems, 2001, 16, 347-397.	0.4	76
7	Hamiltonian dynamics of a rigid body in a central gravitational field. Celestial Mechanics and Dynamical Astronomy, 1990, 50, 349-386.	1.4	75
8	Gyroscopic control and stabilization. Journal of Nonlinear Science, 1992, 2, 367-415.	2.1	74
9	Motion camouflage in three dimensions. , 2006, , .		47
10	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
11	The dynamics of coupled planar rigid bodies. Part I: reduction, equilibria and stability. Dynamical Systems, 1988, 3, 25-49.	0.7	35
12	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
13	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
14	Geometry of cyclic pursuit. , 2009, , .		21
15	Cyclic pursuit in three dimensions. , 2010, , .		18
16	Portraits of cyclic pursuit. , 2011, , .		16
17	Trajectory smoothing as a linear optimal control problem. , 2012, , .		13
18	Optimality, reduction and collective motion. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140606.	2.1	11

#	ARTICLE	IF	CITATIONS
19	On the geometry and dynamics of floating four-bar linkages. <i>Dynamical Systems</i> , 1994, 9, 19-45.	0.7	10
20	Motion camouflage for coverage. , 2010, , .		9
21	Dynamic observers as asymptotic limits of recursive filters. , 1982, , .		8
22	Pattern-forming systems for control of large arrays of actuators. <i>Journal of Nonlinear Science</i> , 2001, 11, 239-277.	2.1	8
23	Motion camouflage with sensorimotor delay. , 2007, , .		7
24	Mutual Motion Camouflage in 3D*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 4483-4488.	0.4	7
25	Symmetry and reduction in collectives: low-dimensional cyclic pursuit. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160465.	2.1	7
26	Symmetries and reduced linearization: Part II. , 1983, , .		5
27	Lie Poisson structures and dual-spin spacecraft. , 1983, , .		4
28	Extremal collective behavior. , 2010, , .		4
29	Control-theoretic data smoothing. , 2014, , .		4
30	Deformation of lie algebras and the Wei-Norman equations. , 1980, , .		3
31	<title>Smart motor concept based on piezoelectric-magnetostrictive resonance</title>. , 1995, , .		3
32	Asymptotic Stability, Instability and Stabilization of Relative Equilibria. , 1991, , .		3
33	Disturbance decoupling control of the swing equations. , 1984, , .		2
34	Intrinsic filtering equations. , 1982, , .		0
35	Dynamics for space based robotic manipulation. , 1987, , .		0
36	Stochastic control for long range cooperative optical beam tracking. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
37	Subriemannian geodesics for coupled nonholonomic integrators. , 2016, , .		0