Jay Prakash Singh

List of Publications by Year
in descending order

55 papers	1,075 citations	361388 20 h-index	414395 32 g-index
56 all docs	56 docs citations	56 times ranked	564 citing authors

#	Article	IF	Citations
1	Comparatively better and effective adaptive controllers for synchronisation between identical hyperchaotic systems. IFAC-PapersOnLine, 2022, 55, 64-69.	0.9	0
2	Presence of Megastability and Infinitely Many Equilibria in a Periodically and Quasi-Periodically Excited Single-Link Manipulator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2130005.	1.7	15
3	A family of circulant megastable chaotic oscillators, its application for the detection of a feeble signal and PID controller for time-delay systems by using chaotic SCA algorithm. Chaos, Solitons and Fractals, 2021, 148, 110992.	5.1	12
4	Switching between Dissipative and Conservative Behaviors in a Modified Hyperchaotic System with the Variation of Its Parameter. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	1.7	8
5	Bifurcation and chaos in a bearing system. International Journal of Modern Physics B, 2020, 34, 2050176.	2.0	2
6	Adaptive global super-twisting sliding mode control-based filter for trajectory synchronisation of two-link flexible manipulators. International Journal of Systems Science, 2020, 51, 2410-2428.	5.5	7
7	Existence of Metastable, Hyperchaos, Line of Equilibria and Self-Excited Attractors in a New Hyperjerk Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2030037.	1.7	6
8	A modified chaotic oscillator with megastability and variable boosting and its synchronisation using contraction theory-based control which is better than backstepping and nonlinear active control. Pramana - Journal of Physics, 2020, 94, 1.	1.8	5
9	A novel dissipative and conservative megastable oscillator with engineering applications. Modern Physics Letters B, 2020, 34, 2150007.	1.9	7
10	A Novel Simple 4-D Hyperchaotic System with a Saddle-Point Index-2 Equilibrium Point and Multistability: Design and FPGA-Based Applications. Circuits, Systems, and Signal Processing, 2020, 39, 4259-4280.	2.0	28
11	Secure Communication Using a New Hyperchaotic System with Hidden Attractors. Lecture Notes in Electrical Engineering, 2020, , 67-79.	0.4	0
12	Tracking Control and Deflection Suppression of an AMM Modelled TLFM Using Backstepping Based Adaptive SMC Technique. Lecture Notes in Electrical Engineering, 2020, , 43-58.	0.4	2
13	Synchronisation Between Two Uncertain Highly Complex Hyperchaotic Systems in the Occurrence of Unmatched Disturbances Using Disturbance Observer-Based Adaptive SMC. Lecture Notes in Electrical Engineering, 2020, , 253-265.	0.4	0
14	Joint Angle Trajectory Tracking and Vibration Control of a Two-Link Flexible Link Manipulator (TLFM) in the Presence of Unmatched Disturbances. Lecture Notes in Electrical Engineering, 2020, , 227-239.	0.4	1
15	A new chaotic oscillator containing generalised memristor, single op-amp and RLC with chaos suppression and an application for the random number generation. European Physical Journal: Special Topics, 2019, 228, 2233-2245.	2.6	12
16	Design of a Composite Control in Two-Time Scale Using Nonlinear Disturbance Observer-Based SMC and Backstepping Control of a Two-Link Flexible Manipulator. , 2019, , 155-183.		0
17	Multistability and Hidden Attractors in the Dynamics of Permanent Magnet Synchronous Motor. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950056.	1.7	42
18	Simplest hyperchaotic system with only one piecewise linear term. Electronics Letters, 2019, 55, 378-380.	1.0	14

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19	Chaotic Path Planning for a Two-Link Flexible Robot Manipulator Using a Composite Control Technique. , 2019, , 233-257.		4
20	Dissipative and conservative chaotic nature of a new quasi-periodically forced oscillator with megastability. Chinese Journal of Physics, 2019, 58, 263-272.	3.9	31
21	Fractional-order memristor-based chaotic system with a stable equilibrium point, its fractional-order PI-based sliding mode control and switching synchronisation. Pramana - Journal of Physics, 2019, 92, 1.	1.8	8
22	A new four-dimensional chaotic system with first Lyapunov exponent of about 22, hyperbolic curve and circular paraboloid types of equilibria and its switching synchronization by an adaptive global integral sliding mode control. Chinese Physics B, 2018, 27, 040503.	1.4	13
23	A more chaotic and easily hardware implementable new 3-D chaotic system in comparison with 50 reported systems. Nonlinear Dynamics, 2018, 93, 1121-1148.	5.2	30
24	Hidden attractors in a new complex generalised Lorenz hyperchaotic system, its synchronisation using adaptive contraction theory, circuit validation and application. Nonlinear Dynamics, 2018, 92, 373-394.	5.2	43
25	New family of 4-D hyperchaotic and chaotic systems with quadric surfaces of equilibria. Chaos, Solitons and Fractals, 2018, 106, 243-257.	5.1	59
26	Multistability and hidden chaotic attractors in a new simple 4-D chaotic system with chaotic 2-torus behaviour. International Journal of Dynamics and Control, 2018, 6, 529-538.	2.5	32
27	Second order adaptive time varying sliding mode control for synchronization of hidden chaotic orbits in a new uncertain 4-D conservative chaotic system. Transactions of the Institute of Measurement and Control, 2018, 40, 3573-3586.	1.7	36
28	Fractional-order memristor-based chaotic jerk system with no equilibrium point and its fractional-order backstepping control. IFAC-PapersOnLine, 2018, 51, 1-6.	0.9	16
29	A new four-dimensional hyperjerk system with stable equilibrium point, circuit implementation, and its synchronization by using an adaptive integrator backstepping control. Chinese Physics B, 2018, 27, 100501.	1.4	29
30	Megastability, Multistability in a Periodically Forced Conservative and Dissipative System with Signum Nonlinearity. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830030.	1.7	22
31	Tracking control and synchronization of Bhalekar-Gejji chaotic systems using active backstepping control. , 2018, , .		3
32	Megastability in a quasi-periodically forced system exhibiting multistability, quasi-periodic behaviour, and its analogue circuit simulation. AEU - International Journal of Electronics and Communications, 2018, 92, 111-115.	2.9	44
33	A new 5D hyperchaotic system with stable equilibrium point, transient chaotic behaviour and its fractional-order form. Pramana - Journal of Physics, 2018, 91, 1.	1.8	20
34	Five new 4-D autonomous conservative chaotic systems with various type of non-hyperbolic and lines of equilibria. Chaos, Solitons and Fractals, 2018, 114, 81-91.	5.1	42
35	Adaptive time-varying super-twisting global SMC for projective synchronisation of flexible manipulator. Nonlinear Dynamics, 2018, 93, 2071-2088.	5.2	26
36	Hidden Chaotic Path Planning and Control of a Two-Link Flexible Robot Manipulator. Studies in Systems, Decision and Control, 2018, , 433-463.	1.0	5

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37	5-D Hyperchaotic and Chaotic Systems with Non-hyperbolic Equilibria and Many Equilibria. Studies in Systems, Decision and Control, 2018, , 465-497.	1.0	1
38	Control of a many equilibria hyperchaotic system. , 2017, , .		0
39	The simplest 4-D chaotic system with line of equilibria, chaotic 2-torus and 3-torus behaviour. Nonlinear Dynamics, 2017, 89, 1845-1862.	5.2	65
40	NAC-based Synchronisation and Anti-synchronisation Between Hyperchaotic and Chaotic Systems, Its Analogue Circuit Design and Application. IETE Journal of Research, 2017, 63, 853-869.	2.6	32
41	Coexistence of single- and multi-scroll chaotic orbits in a single-link flexible joint robot manipulator with stable spiral and index-4 spiral repellor types of equilibria. Nonlinear Dynamics, 2017, 90, 1277-1299.	5.2	49
42	Coexistence of asymmetric hidden chaotic attractors in a new simple 4-D chaotic system with curve of equilibria. Optik, 2017, 145, 209-217.	2.9	50
43	Comment on â€œTheoretical Analysis and Circuit Verification for Fractional-Order Chaotic Behavior in a New Hyperchaotic Systemâ€. Mathematical Problems in Engineering, 2016, 2016, 1-3.	1.1	3
44	On the Construction of a New Chaotic System. IFAC-PapersOnLine, 2016, 49, 522-525.	0.9	9
45	Crisis and inverse crisis route to chaos in a new 3-D chaotic system with saddle, saddle foci and stable node foci nature of equilibria. Optik, 2016, 127, 11982-12002.	2.9	36
46	The nature of Lyapunov exponents is (+, +, â^', â^'). Is it a hyperchaotic system?. Chaos, Solitons and Fractals, 2016, 92, 73-85.	5.1	76
47	A Novel hyperchaotic System with Stable and Unstable Line of Equilibria and Sigma Shaped Poincare Map. IFAC-PapersOnLine, 2016, 49, 526-531.	0.9	16
48	Synchronization of Lu and Bhalekar-Gejji chaotic systems using sliding mode control. , 2014, , .		1
49	PI based sliding mode control for synchronization of Lu and Bao hyperchaotic systems. , 2014, , .		1
50	Synchronization between hyperchaotic systems using PI Based Sliding Mode Control. , 2014, , .		3
51	Hybrid synchronization of Lu and Bao hyperchaotic systems using sliding mode control. , 2014, , .		2
52	Synchronization and anti-synchronization of Lu and Bhalekarâ€"Gejji chaotic systems using nonlinear active control. Chaos, Solitons and Fractals, 2014, 69, 31-39.	5.1	92
53	Hybrid Synchronization of Lu and Bhalekar-Gejji Chaotic Systems Using Nonlinear Active Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 292-296.	0.4	4
54	Nonlinear Active Control Based Hybrid Synchronization between Hyperchaotic and Chaotic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 287-291.	0.4	9

#	ARTICLE	IF	CITATIONS
55	An effective modified-adaptive controller for synchronisation of chaotic systems in the presence of parametric uncertainty and external disturbances. International Journal of Dynamics and Control, 0, , 1.	2.5	0