

# Sahjendra N Singh

## List of Publications by Citations

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105  
papers

1,889  
citations

26  
h-index

38  
g-index

122  
ext. papers

2,272  
ext. citations

2.5  
avg, IF

4.98  
L-index

#	Paper	IF	Citations
105	Direct Adaptive and Neural Control of Wing-Rock Motion of Slender Delta Wings. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1995</b> , 18, 25-30	2.1	98
104	Adaptive Control of Chaos in Lorenz System. <i>Journal of Dynamical and Control Systems</i> , <b>1997</b> , 7, 143-154		86
103	Adaptive Output Feedback Control of a Nonlinear Aeroelastic Structure. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2000</b> , 23, 1109-1116	2.1	83
102	Invertibility and trajectory control for nonlinear maneuvers of aircraft. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1994</b> , 17, 192-200	2.1	70
101	Adaptive output feedback control of spacecraft with flexible appendages by modeling error compensation. <i>Acta Astronautica</i> , <b>2004</b> , 54, 229-243	2.9	69
100	State-dependent Riccati equation-based robust dive plane control of AUV with control constraints. <i>Ocean Engineering</i> , <b>2007</b> , 34, 1711-1723	3.9	62
99	Variable structure slewing control and vibration damping of flexible spacecraft. <i>Acta Astronautica</i> , <b>1991</b> , 25, 1-9	2.9	58
98	Simplified adaptive control of an orbiting flexible spacecraft. <i>Acta Astronautica</i> , <b>2007</b> , 61, 575-589	2.9	49
97	Adaptive Output Feedback Control of an Aeroelastic System with Unstructured Uncertainties. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2001</b> , 24, 502-509	2.1	49
96	Control of Unsteady Aeroelastic System via State-Dependent Riccati Equation Method. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2005</b> , 28, 78-84	2.1	43
95	Nonlinear predictive control of feedback linearizable systems and flight control system design. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1995</b> , 18, 1023-1028	2.1	43
94	Output Feedback Variable Structure Adaptive Control of an Aeroelastic System. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1998</b> , 21, 830-837	2.1	42
93	Multi-Input Noncertainty-Equivalent Adaptive Control of an Aeroelastic System. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2010</b> , 33, 1451-1460	2.1	41
92	State feedback control of an aeroelastic system with structural nonlinearity. <i>Aerospace Science and Technology</i> , <b>2003</b> , 7, 23-31	4.9	41
91	Output Feedback Form and Adaptive Stabilization of a Nonlinear Aeroelastic System. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2002</b> , 25, 725-732	2.1	41
90	Noncertainty-Equivalent Adaptive Missile Control via Immersion and Invariance. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2010</b> , 33, 655-665	2.1	39
89	Adaptive control of feedback linearizable nonlinear systems with application to flight control. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1996</b> , 19, 871-877	2.1	39

88	Adaptive and neural control of a wing section using leading- and trailing-edge surfaces. <i>Aerospace Science and Technology</i> , <b>2005</b> , 9, 161-171	4.9	38
87	Input-Output invertibility and sliding mode control for close formation flying of multiple UAVs. <i>International Journal of Robust and Nonlinear Control</i> , <b>2000</b> , 10, 779-797	3.6	34
86	Global Robust Control of an Aeroelastic System Using Output Feedback. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2007</b> , 30, 271-275	2.1	33
85	L1 adaptive control of flexible spacecraft despite disturbances. <i>Acta Astronautica</i> , <b>2012</b> , 80, 24-35	2.9	32
84	Optimal Feedback Control of Vortex Shedding Using Proper Orthogonal Decomposition Models. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2001</b> , 123, 612-618	2.1	29
83	Immersion- and Invariance-Based Adaptive Control of a Nonlinear Aeroelastic System. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2009</b> , 32, 1100-1110	2.1	28
82	Nonlinear Adaptive Close Formation Control of Unmanned Aerial Vehicles. <i>Journal of Dynamical and Control Systems</i> , <b>2000</b> , 10, 179-194		28
81	Output feedback non-linear decoupled control synthesis and observer design for manoeuvring aircraft. <i>International Journal of Control</i> , <b>1980</b> , 31, 781-806	1.5	28
80	Adaptive optimal control of an autonomous underwater vehicle in the dive plane using dorsal fins. <i>Ocean Engineering</i> , <b>2006</b> , 33, 404-416	3.9	26
79	Output feedback nonlinear control of an aeroelastic system with unsteady aerodynamics. <i>Aerospace Science and Technology</i> , <b>2004</b> , 8, 195-205	4.9	25
78	Inverse Trajectory Control and Zero Dynamics Sensitivity of an Elastic Manipulator <b>1991</b> ,		25
77	. <i>IEEE Journal of Oceanic Engineering</i> , <b>2008</b> , 33, 563-578	3.3	24
76	Modular Adaptive Control of a Nonlinear Aeroelastic System. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2003</b> , 26, 443-451	2.1	24
75	Variable Structure Adaptive Control of Wing-Rock Motion of Slender Delta Wings. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1998</b> , 21, 251-256	2.1	23
74	Adaptive Control of Multi-Input Aeroelastic System with Constrained Inputs. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2015</b> , 38, 2337-2350	2.1	21
73	Nonlinear Inverse and Predictive End Point Trajectory Control of Flexible Macro-Micro Manipulators. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>1997</b> , 119, 412-420	1.6	20
72	Decentralized nonlinear robust control of UAVs in close formation. <i>International Journal of Robust and Nonlinear Control</i> , <b>2003</b> , 13, 1057-1078	3.6	20
71	Limit Cycle Oscillation and Orbital Stability in Aeroelastic Systems with Torsional Nonlinearity. <i>Nonlinear Dynamics</i> , <b>2003</b> , 31, 435-450	5	19

70	Robust Higher-Order Sliding-Mode Finite-Time Control of Aeroelastic Systems. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2014</b> , 37, 1664-1671	2.1	18
69	L1 adaptive control of a nonlinear aeroelastic system despite gust load. <i>JVC/Journal of Vibration and Control</i> , <b>2013</b> , 19, 1807-1821	2	18
68	Optimal Yaw Regulation and Trajectory Control of Biorobotic AUV Using Mechanical Fins Based on CFD Parametrization. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2006</b> , 128, 687-698	2.1	18
67	Multi-variable adaptive back-stepping control of submersibles using SDU decomposition. <i>Ocean Engineering</i> , <b>2009</b> , 36, 158-167	3.9	17
66	ADAPTIVE FEEDBACK LINEARIZING CONTROL OF CHUA'S CIRCUIT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2002</b> , 12, 1599-1604	2	14
65	Finite-time sliding mode and super-twisting control of fighter aircraft. <i>Aerospace Science and Technology</i> , <b>2018</b> , 82-83, 487-498	4.9	14
64	Adaptive Variable Structure Control of Aircraft with an Unknown High-Frequency Gain Matrix. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2008</b> , 31, 194-203	2.1	13
63	Adaptive input-output feedback linearizing yaw plane control of BAUV using dorsal fins. <i>Ocean Engineering</i> , <b>2006</b> , 33, 1413-1430	3.9	13
62	Variable Structure Control of Unsteady Aeroelastic System with Partial State Information. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2005</b> , 28, 568-573	2.1	13
61	Biologically-Inspired Bodies Under Surface Waves Part 2: Theoretical Control of Maneuvering. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1999</b> , 121, 479-487	2.1	13
60	Inverse Force and Motion Control of Constrained Elastic Robots. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>1995</b> , 117, 374-383	1.6	13
59	Variable-Structure Model Reference Adaptive Formation Control of Spacecraft. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2012</b> , 35, 104-115	2.1	12
58	Robust control of chaos in Chua's circuit based on internal model principle. <i>Chaos, Solitons and Fractals</i> , <b>2007</b> , 31, 1095-1107	9.3	11
57	Nonlinear regulation of Space Station - A geometric approach. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1994</b> , 17, 242-249	2.1	11
56	Sliding mode of control of flexible spacecraft under disturbance torque. <i>International Journal of Systems Science</i> , <b>1990</b> , 21, 1755-1771	2.3	11
55	Nonlinear attitude control of flexible spacecraft under disturbance torque. <i>Acta Astronautica</i> , <b>1986</b> , 13, 507-514	2.9	11
54	Attractive manifold-based adaptive solar attitude control of satellites in elliptic orbits. <i>Acta Astronautica</i> , <b>2011</b> , 68, 185-196	2.9	10
53	Wing rock control by finite-form adaptation. <i>JVC/Journal of Vibration and Control</i> , <b>2016</b> , 22, 2687-2703	2	9

52	Noncertainty-Equivalent Adaptive Wing-Rock Control via Chebyshev Neural Network. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2014</b> , 37, 123-133	2.1	9
51	Output Feedback Modular Adaptive Control of a Nonlinear Prototypical Wing Section. <i>Nonlinear Dynamics</i> , <b>2004</b> , 37, 357-373	5	9
50	Experimental two-axis vibration suppression and control of a flexible robot arm. <i>Journal of Field Robotics</i> , <b>1993</b> , 10, 321-343		9
49	Flexible spacecraft maneuver: Inverse attitude control and modal stabilization. <i>Acta Astronautica</i> , <b>1988</b> , 17, 1-9	2.9	9
48	Immersion-and Invariance-Based Adaptive Control of Asteroid-Orbiting and - Hovering Spacecraft. <i>Journal of the Astronautical Sciences</i> , <b>2019</b> , 66, 537-553	1.1	8
47	L1 adaptive control of an aeroelastic system with unsteady aerodynamics and gust load. <i>JVC/Journal of Vibration and Control</i> , <b>2018</b> , 24, 303-322	2	8
46	Output feedback form of Chua's circuit and modular adaptive control of chaos using single measurement. <i>Chaos, Solitons and Fractals</i> , <b>2006</b> , 28, 724-738	9.3	8
45	Limit Cycles and Domain of Stability in Unsteady Aeroelastic System. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2004</b> , 27, 728-732	2.1	8
44	Variable Structure Adaptive Force Tracking Control of a Cantilever Beam Using a Piezoelectric Actuator. <i>JVC/Journal of Vibration and Control</i> , <b>2000</b> , 6, 1029-1043	2	8
43	Feedback Linearization of Differential-Algebraic Systems and Force and Position Control of Manipulators <b>1993</b> ,		8
42	Dual mode control of an elastic robotic arm: non-linear inversion and stabilization by pole assignment. <i>International Journal of Systems Science</i> , <b>1990</b> , 21, 1185-1204	2.3	8
41	Noncertainty-Equivalence Spacecraft Adaptive Formation Control with Filtered Signals. <i>Journal of Aerospace Engineering</i> , <b>2017</b> , 30, 04017029	1.4	7
40	Adaptive and Supertwisting Adaptive Spacecraft Orbit Control Around Asteroids. <i>Journal of Aerospace Engineering</i> , <b>2019</b> , 32, 04019042	1.4	7
39	Noncertainty-equivalent multi-variable adaptive control of submersibles using filtered signals. <i>Ocean Engineering</i> , <b>2012</b> , 53, 98-110	3.9	7
38	Variable structure trajectory control of an elastic robotic arm. <i>Journal of Field Robotics</i> , <b>1993</b> , 10, 23-44		7
37	Immersion and invariance-based adaptive wing rock control with nonlinear terminal manifold. <i>Nonlinear Dynamics</i> , <b>2017</b> , 88, 955-972	5	6
36	Multi-input submarine control via L1 adaptive feedback despite uncertainties. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2014</b> , 228, 330-347 <sup>1</sup>		6
35	Nonlinear adaptive trajectory control of multi-input multi-output submarines with input constraints. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2016</b> , 230, 164-183	1	5

34	Oscillatory adaptive yaw-plane control of biorobotic autonomous underwater vehicles using pectoral-like fins. <i>Applied Bionics and Biomechanics</i> , <b>2008</b> , 4, 137-147	1.6	5
33	Nonlinear rotational maneuver and vibration damping of NASA SCOPE system. <i>Acta Astronautica</i> , <b>1994</b> , 32, 211-220	2.9	5
32	A Higher-Order Sliding Mode Three-Axis Solar Pressure Satellite Attitude Control System. <i>Journal of Aerospace Engineering</i> , <b>2016</b> , 29, 04015019	1.4	4
31	Generalized Composite Noncertainty-Equivalence Adaptive Control of Orbiting Spacecraft in Vicinity of Asteroid. <i>Journal of the Astronautical Sciences</i> , <b>2020</b> , 67, 1021-1043	1.1	4
30	L1 adaptive attitude control of satellites in elliptic orbits using solar radiation pressure. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2014</b> , 228, 611-626	0.9	4
29	Adaptive Servoregulation of a Projectile Fin Using Piezoelectric Actuator. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2007</b> , 129, 100-104	1.6	4
28	MODULAR ADAPTIVE CONTROL OF CHAOS IN CHUA'S CIRCUIT. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2005</b> , 15, 2973-2984	2	4
27	OUTPUT FEEDBACK ADAPTIVE VARIABLE STRUCTURE CONTROL OF CHAOS IN LORENZ SYSTEM. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2002</b> , 12, 571-582	2	4
26	Input-output linearization, zero dynamics stability and nonlinear control of space station. <i>Acta Astronautica</i> , <b>1993</b> , 29, 417-427	2.9	4
25	Three-axis L1 adaptive attitude control of spacecraft using solar radiation pressure. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2015</b> , 229, 407-422	0.9	3
24	Longitudinal nonlinear adaptive autopilot design for missiles with control constraint. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , <b>2018</b> , 232, 1655-1670	0.9	3
23	Biologically-Inspired Adaptive Pectoral-Like Fin Control System For CFD Parameterized AUV <b>2007</b> ,		3
22	Adaptive Feedback Linearizing Control of Proper Orthogonal Decomposition Nonlinear Flow Models. <i>Nonlinear Dynamics</i> , <b>2002</b> , 28, 71-81	5	3
21	Sliding mode force, motion control, and stabilization of elastic manipulator in the presence of uncertainties. <i>Journal of Field Robotics</i> , <b>1995</b> , 12, 315-330		3
20	Predictive end-point trajectory control of elastic manipulators. <i>Journal of Field Robotics</i> , <b>1996</b> , 13, 561-569		3
19	Nonlinear ultimate boundedness control and stabilization of a flexible robotic arm. <i>Journal of Field Robotics</i> , <b>1992</b> , 9, 301-326		3
18	Variable structure control of a robotic arm in the presence of uncertainty. <i>Journal of Field Robotics</i> , <b>1989</b> , 6, 111-132		3
17	Inverse Force/End-Point Control, Zero Dynamics and Stabilization of Constrained Elastic Robots <b>1993</b> ,		3

16	Robust Finite-Time Continuous Control of an Unsteady Aeroelastic System. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2018</b> , 41, 978-986	2.1	3
15	Generalized composite noncertainty-equivalence adaptive control of a prototypical wing section with torsional nonlinearity. <i>Nonlinear Dynamics</i> , <b>2021</b> , 103, 2547-2561	5	3
14	Adaptive global synchrony of inferior olive neurons. <i>Bioinspiration and Biomimetics</i> , <b>2009</b> , 4, 036003	2.6	2
13	Oscillatory Adaptive Yaw-Plane Control of Biorobotic Autonomous Underwater Vehicles Using Pectoral-Like Fins. <i>Applied Bionics and Biomechanics</i> , <b>2007</b> , 4, 137-147	1.6	2
12	Variable Structure Control of Decoupleable Systems and Attitude Control of Spacecraft in Presence of Uncertainty <b>1988</b> ,		2
11	Robust Higher-Order Super-Twisting Control of Aeroelastic System with Unsteady Aerodynamics <b>2018</b> ,		1
10	Differential Game-Based Control Law for Stabilization of Aeroelastic System with Gust Load <b>2016</b> ,		1
9	Robust Finite-Time Control of an Uncertain Aeroelastic System Using Leading-and Trailing-Edge Flaps. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 318-328	0.4	1
8	Non-linear momentum and attitude control of a Space Station accommodating periodic aerodynamic disturbance. <i>Acta Astronautica</i> , <b>1995</b> , 35, 391-402	2.9	1
7	Biology-Inspired Robust Dive Plane Control of Non-Linear AUV Using Pectoral-Like Fins. <i>Applied Bionics and Biomechanics</i> , <b>2010</b> , 7, 153-168	1.6	1
6	Bifurcation of orbits and synchrony in inferior olive neurons. <i>Journal of Mathematical Biology</i> , <b>2012</b> , 65, 465-91	2	0
5	Robust Output Feedback Attitude Control of Spacecraft Using Solar Radiation Pressure. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 9-15	0.4	
4	Synchronization of inferior olive neurons via $(L)_1$ adaptive feedback. <i>Nonlinear Dynamics</i> , <b>2014</b> , 78, 467-483	5	
3	Output Feedback Adaptive Variable Structure Control of Chaos in Lorenz System. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1998</b> , 31, 725-730		
2	Adaptive Control of a Nonlinear Prototypical Wing Section with Reduced Order Observer. <i>Journal of Dynamical and Control Systems</i> , <b>1999</b> , 9, 297-317		
1	Chaotic Chua's Circuit's Parameter Estimation Using Composite Identifier and Indirect Adaptive Output Regulation. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 177-189	0.5	