

Antonella Ferrara

List of Publications by Year in descending order

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386
papers

10,794
citations

41344

49
h-index

45317

90
g-index

391
all docs

391
docs citations

391
times ranked

6440
citing authors

#	ARTICLE	IF	CITATIONS
1	Chattering avoidance by second-order sliding mode control. IEEE Transactions on Automatic Control, 1998, 43, 241-246.	5.7	957
2	Dust formation in primordial Type II supernovae. Monthly Notices of the Royal Astronomical Society, 2001, 325, 726-736.	4.4	439
3	Adaptive sliding mode control in discrete-time systems. Automatica, 1995, 31, 769-773.	5.0	342
4	On multi-input chattering-free second-order sliding mode control. IEEE Transactions on Automatic Control, 2000, 45, 1711-1717.	5.7	308
5	On second order sliding mode controllers. , 1999, , 329-350.		259
6	The role of stellar feedback and dark matter in the evolution of dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2000, 313, 291-309.	4.4	229
7	Integral Sliding Mode Control for Nonlinear Systems With Matched and Unmatched Perturbations. IEEE Transactions on Automatic Control, 2011, 56, 2699-2704.	5.7	229
8	Dust-to-Gas Ratio and Metal Abundance in Dwarf Galaxies. Astrophysical Journal, 1998, 496, 145-154.	4.5	223
9	Output tracking control of uncertain nonlinear second-order systems. Automatica, 1997, 33, 2203-2212.	5.0	215
10	Early reionization by the first galaxies. Monthly Notices of the Royal Astronomical Society, 2003, 344, L7-L11.	4.4	196
11	Sliding Mode Control of Constrained Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 2965-2972.	5.7	164
12	Design of an Integral Suboptimal Second-Order Sliding Mode Controller for the Robust Motion Control of Robot Manipulators. IEEE Transactions on Control Systems Technology, 2015, 23, 2316-2325.	5.2	163
13	Robust Model Predictive Control With Integral Sliding Mode in Continuous-Time Sampled-Data Nonlinear Systems. IEEE Transactions on Automatic Control, 2011, 56, 556-570.	5.7	156
14	Inhomogeneous reionization of the intergalactic medium regulated by radiative and stellar feedbacks. Monthly Notices of the Royal Astronomical Society, 2000, 314, 611-629.	4.4	145
15	Cosmological reionization around the first stars: Monte Carlo radiative transfer. Monthly Notices of the Royal Astronomical Society, 2001, 324, 381-388.	4.4	137
16	Vehicle Yaw Control via Second-Order Sliding-Mode Technique. IEEE Transactions on Industrial Electronics, 2008, 55, 3908-3916.	7.9	131
17	Wheel Slip Control via Second-Order Sliding-Mode Generation. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 122-131.	8.0	128
18	Manipulator Fault Diagnosis via Higher Order Sliding-Mode Observers. IEEE Transactions on Industrial Electronics, 2012, 59, 3979-3986.	7.9	126

#	ARTICLE	IF	CITATIONS
19	Higher Order Sliding Mode Controllers With Optimal Reaching. IEEE Transactions on Automatic Control, 2009, 54, 2126-2136.	5.7	123
20	A Robust Consensus Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. IEEE Transactions on Control Systems Technology, 2019, 27, 1583-1595.	5.2	119
21	MPC for Robot Manipulators With Integral Sliding Modes Generation. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1299-1307.	5.8	116
22	AMADEUS: advanced manipulation for deep underwater sampling. IEEE Robotics and Automation Magazine, 1997, 4, 34-45.	2.0	110
23	Trajectory Planning and Second-Order Sliding Mode Motion/Interaction Control for Robot Manipulators in Unknown Environments. IEEE Transactions on Industrial Electronics, 2012, 59, 3189-3198.	7.9	105
24	Integral Sliding Mode for the Torque-Vectoring Control of Fully Electric Vehicles: Theoretical Design and Experimental Assessment. IEEE Transactions on Vehicular Technology, 2015, 64, 1701-1715.	6.3	105
25	Fault Detection for Robot Manipulators via Second-Order Sliding Modes. IEEE Transactions on Industrial Electronics, 2008, 55, 3954-3963.	7.9	97
26	Control of a Class of Mechanical Systems With Uncertainties Via a Constructive Adaptive/Second Order VSC Approach. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 33-39.	1.6	88
27	Properties of a combined adaptive/second-order sliding mode control algorithm for some classes of uncertain nonlinear systems. IEEE Transactions on Automatic Control, 2000, 45, 1334-1341.	5.7	86
28	Effects of dust grains on early galaxy evolution. Monthly Notices of the Royal Astronomical Society, 2002, 337, 921-937.	4.4	86
29	Optimal control of freeways via speed signalling and ramp metering. Control Engineering Practice, 1998, 6, 771-780.	5.5	85
30	APPLICATIONS OF A SUB-OPTIMAL DISCONTINUOUS CONTROL ALGORITHM FOR UNCERTAIN SECOND ORDER SYSTEMS. International Journal of Robust and Nonlinear Control, 1997, 7, 299-319.	3.7	84
31	MIMO Closed Loop Identification of an Industrial Robot. IEEE Transactions on Control Systems Technology, 2011, 19, 1214-1224.	5.2	81
32	The escape fraction of ionizing photons from high-redshift galaxies from data-constrained reionization models. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 428, L1-L5.	3.3	80
33	Design of Robust Higher Order Sliding Mode Control for Microgrids. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 393-401.	3.6	80
34	Decentralized Sliding Mode Control of Islanded AC Microgrids With Arbitrary Topology. IEEE Transactions on Industrial Electronics, 2017, 64, 6706-6713.	7.9	77
35	A Sub-Optimal Second Order Sliding Mode Controller for Systems With Saturating Actuators. IEEE Transactions on Automatic Control, 2009, 54, 1082-1087.	5.7	75
36	Sliding mode voltage control of boost converters in DC microgrids. Control Engineering Practice, 2018, 73, 161-170.	5.5	75

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37	Adaptive suboptimal second-order sliding mode control for microgrids. International Journal of Control, 2016, 89, 1849-1867.	1.9	74
38	Nonlinear optimization for freeway control using variable-speed signaling. IEEE Transactions on Vehicular Technology, 1999, 48, 2042-2052.	6.3	71
39	Mixing metals in the early Universe. Monthly Notices of the Royal Astronomical Society, 2000, 319, 539-548.	4.4	71
40	Second order sliding mode control of vehicles with distributed collision avoidance capabilities. Mechatronics, 2009, 19, 471-477.	3.3	69
41	Comparing Internal Model Control and Sliding-Mode Approaches for Vehicle Yaw Control. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 31-41.	8.0	68
42	Numerical modelling of fracture in human arteries. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 553-567.	1.6	67
43	Design and experimental validation of a second-order sliding-mode motion controller for robot manipulators. International Journal of Control, 2009, 82, 365-377.	1.9	65
44	Asynchronous Networked MPC With ISM for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 4305-4317.	5.7	64
45	On the convergence properties of a 2-sliding control algorithm for non-linear uncertain systems. International Journal of Control, 2001, 74, 718-731.	1.9	63
46	Self-Configuring Robot Path Planning With Obstacle Avoidance via Deep Reinforcement Learning. , 2021, 5, 397-402.		61
47	Traction Control for Ride-by-Wire Sport Motorcycles: A Second-Order Sliding Mode Approach. IEEE Transactions on Industrial Electronics, 2009, 56, 3347-3356.	7.9	56
48	Vehicle state and tyre force estimation: demonstrations and guidelines. Vehicle System Dynamics, 2021, 59, 675-702.	3.7	56
49	Event-triggered model predictive schemes for freeway traffic control. Transportation Research Part C: Emerging Technologies, 2015, 58, 554-567.	7.6	55
50	Freeway Traffic Modelling and Control. Advances in Industrial Control, 2018, , .	0.5	53
51	Switched/time-based adaptation for second-order sliding mode control. Automatica, 2016, 64, 126-132.	5.0	51
52	Lyman continuum escape from an inhomogeneous interstellar medium. Monthly Notices of the Royal Astronomical Society, 2002, 331, 463-473.	4.4	48
53	Deep Reinforcement Learning for Collision Avoidance of Robotic Manipulators. , 2018, , .		48
54	Practical second order sliding modes in single-loop networked control of nonlinear systems. Automatica, 2018, 89, 235-240.	5.0	46

#	ARTICLE	IF	CITATIONS
55	Minimum Sensor Second-Order Sliding Mode Longitudinal Control of Passenger Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2004, 5, 20-32.	8.0	45
56	Onboard Sensor-Based Collision Risk Assessment to Improve Pedestrians' Safety. IEEE Transactions on Vehicular Technology, 2007, 56, 2405-2413.	6.3	45
57	Second-order sliding-mode control of a mobile robot based on a harmonic potential field. IET Control Theory and Applications, 2008, 2, 807-818.	2.1	45
58	Motion Control of Rigid Robot Manipulators via First and Second Order Sliding Modes. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 48, 23-36.	3.4	44
59	A Supervisory Sliding Mode Control Approach for Cooperative Robotic System of Systems. IEEE Systems Journal, 2015, 9, 263-272.	4.6	43
60	Traffic control via moving bottleneck of coordinated vehicles. IFAC-PapersOnLine, 2018, 51, 13-18.	0.9	43
61	Freeway traffic control: A survey. Automatica, 2021, 130, 109655.	5.0	43
62	Passivity-Based Design of Sliding Modes for Optimal Load Frequency Control. IEEE Transactions on Control Systems Technology, 2019, 27, 1893-1906.	5.2	42
63	A numerical study of arterial media dissection processes. International Journal of Fracture, 2010, 166, 21-33.	2.2	41
64	Robustness and performance of an indirect adaptive control scheme in presence of bounded disturbances. IEEE Transactions on Automatic Control, 1999, 44, 789-793.	5.7	39
65	Time-optimal sliding-mode control of a mobile robot in a dynamic environment. IET Control Theory and Applications, 2011, 5, 1916-1924.	2.1	39
66	Infrared spectral energy distribution model for extremely young galaxies. Monthly Notices of the Royal Astronomical Society, 2003, 343, 839-850.	4.4	38
67	Molecular hydrogen in damped Ly α systems: clues to interstellar physics at high redshift. Monthly Notices of the Royal Astronomical Society, 2005, 356, 1529-1541.	4.4	38
68	Multi-Input Second-Order Sliding-Mode Hybrid Control of Constrained Manipulators. Journal of Dynamical and Control Systems, 2000, 10, 277-296.	0.4	37
69	Patient-specific finite element analysis of carotid artery stenting: a focus on vessel modeling. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 645-664.	2.1	37
70	Freeways as Systems of Systems: A Distributed Model Predictive Control Scheme. IEEE Systems Journal, 2015, 9, 312-323.	4.6	37
71	Event-triggered variable structure control. International Journal of Control, 2020, 93, 252-260.	1.9	37
72	A Survey on Event-Triggered Sliding Mode Control. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2021, 2, 206-217.	3.9	37

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73	A sliding mode observer for sensorless induction motor speed regulation. International Journal of Systems Science, 2007, 38, 913-929.	5.5	36
74	Collision avoidance strategies and coordinated control of passenger vehicles. Nonlinear Dynamics, 2007, 49, 475-492.	5.2	35
75	Enhancing Robustness and Performance via Switched Second Order Sliding Mode Control. IEEE Transactions on Automatic Control, 2013, 58, 962-974.	5.7	35
76	Patient-specific simulation of a stentless aortic valve implant: the impact of fibres on leaflet performance. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 277-285.	1.6	33
77	Third Order Sliding Mode Observer-Based Approach for Distributed Optimal Load Frequency Control. , 2017, 1, 215-220.		33
78	Model-based event-triggered robust MPC/ISM. , 2014, , .		32
79	Optimization-based adaptive sliding mode control with application to vehicle dynamics control. International Journal of Robust and Nonlinear Control, 2019, 29, 550-564.	3.7	32
80	Vibration damping in elastic robotic structures via sliding modes. Journal of Field Robotics, 1997, 14, 675-696.	0.7	31
81	Sliding mode regulator as solution to optimal control problem. , 2008, , .		30
82	Sliding mode optimal control for linear systems. Journal of the Franklin Institute, 2012, 349, 1350-1363.	3.4	30
83	On multi-input backstepping design with second order sliding modes for a class of uncertain nonlinear systems. International Journal of Control, 1998, 71, 767-788.	1.9	29
84	A switching controller for systems with hard uncertainties. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 984-990.	0.1	29
85	Second order sliding mode motion control of rigid robot manipulators. , 2007, , .		29
86	Robust load frequency control of nonlinear power networks. International Journal of Control, 2020, 93, 346-359.	1.9	29
87	3,5-Dibenzoyl-4-(3-phenoxyphenyl)-1,4-dihydro-2,6-dimethylpyridine (DP7): A new multidrug resistance inhibitor devoid of effects on Langendorff-perfused rat heart. European Journal of Pharmacology, 2007, 563, 160-163.	3.5	28
88	Tracking control via switched Integral Sliding Mode with application to robot manipulators. Control Engineering Practice, 2019, 90, 257-266.	5.5	27
89	An event-triggered Model Predictive Control scheme for freeway systems. , 2012, , .		26
90	Adaptive model-based event-triggered sliding mode control. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1298-1316.	4.1	26

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91	Second-order sliding mode observers for fault reconstruction in power networks. IET Control Theory and Applications, 2017, 11, 2772-2782.	2.1	26
92	Traffic control for freeway networks with sustainability-related objectives: Review and future challenges. Annual Reviews in Control, 2019, 48, 312-324.	7.9	26
93	Predefined-Time Output Stabilization With Second Order Sliding Mode Generation. IEEE Transactions on Automatic Control, 2021, 66, 1445-1451.	5.7	26
94	A combined backstepping/second order sliding mode approach to control a class of nonlinear systems. , 0, , .		25
95	Multirate sliding mode disturbance compensation for model predictive control. International Journal of Robust and Nonlinear Control, 2015, 25, 2984-3003.	3.7	25
96	Decentralized Sliding Mode voltage control in DC microgrids. , 2017, , .		25
97	Constrained Nonlinear Discrete-Time Sliding Mode Control Based on a Receding Horizon Approach. IEEE Transactions on Automatic Control, 2021, 66, 3802-3809.	5.7	25
98	Second order sliding mode control of a perturbed double integrator with state constraints. , 2010, , .		24
99	A Sliding-Mode Virtual Sensor for Wheel Forces Estimation With Accuracy Enhancement via EKF. IEEE Transactions on Vehicular Technology, 2019, 68, 3457-3471.	6.3	24
100	Multi-input sliding mode control of a class of uncertain nonlinear systems. IEEE Transactions on Automatic Control, 1996, 41, 1662-1666.	5.7	23
101	Combined vehicle velocity and tire-road friction estimation via sliding mode observers. , 2012, , .		23
102	A General Framework for Switched and Variable Gain Higher Order Sliding Mode Control. IEEE Transactions on Automatic Control, 2021, 66, 1718-1724.	5.7	23
103	Traffic Control Via Platoons of Intelligent Vehicles for Saving Fuel Consumption in Freeway Systems. , 2021, 5, 593-598.		23
104	Comparison and critical analysis of invariant-based models with respect to their ability in fitting human aortic valve data. Annals of Solid and Structural Mechanics, 2012, 4, 1-14.	0.5	22
105	Hierarchical Model Predictive/Sliding Mode Control of Nonlinear Constrained Uncertain Systems. IFAC-PapersOnLine, 2015, 48, 102-109.	0.9	22
106	Design of networked freeway traffic controllers based on event-triggered control concepts. International Journal of Robust and Nonlinear Control, 2016, 26, 1162-1183.	3.7	22
107	Balancing-Aware Charging Strategy for Series-Connected Lithium-Ion Cells: A Nonlinear Model Predictive Control Approach. IEEE Transactions on Control Systems Technology, 2020, 28, 1862-1877.	5.2	22
108	Dynamical Adaptive First and Second-Order Sliding Backstepping Control of Nonlinear Nontriangular Uncertain Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 746-752.	1.6	21

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109	On modular backstepping design with second order sliding modes. <i>Automatica</i> , 2001, 37, 129-135.	5.0	21
110	Real-time networked control of an industrial robot manipulator via discrete-time second-order sliding modes. <i>International Journal of Control</i> , 2010, 83, 1595-1611.	1.9	21
111	A variable-length Cell Transmission Model for road traffic systems. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 97, 428-455.	7.6	21
112	AMADEUS: advanced manipulator for deep underwater sampling. , 0, , .		20
113	Event-triggered second order sliding mode control of nonlinear uncertain systems. , 2016, , .		20
114	Control of nonholonomic systems with uncertainties via second-order sliding modes. <i>International Journal of Robust and Nonlinear Control</i> , 2008, 18, 515-528.	3.7	19
115	Sliding mode observers for a network of thermal and hydroelectric power plants. <i>Automatica</i> , 2018, 98, 51-57.	5.0	19
116	Trailer control through vehicle yaw moment control: Theoretical analysis and experimental assessment. <i>Mechatronics</i> , 2019, 64, 102282.	3.3	19
117	Application of Switching Control for Automatic Pre-Crash Collision Avoidance in Cars. <i>Nonlinear Dynamics</i> , 2006, 46, 307-321.	5.2	18
118	Second order sliding mode control for nonlinear affine systems with quantized uncertainty. <i>Automatica</i> , 2017, 86, 46-52.	5.0	18
119	Distributed Second Order Sliding Modes for Optimal Load Frequency Control. , 2017, , .		18
120	Adaptive Control of Multivariable Networked Systems With Uncertain Time Delays. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 489-496.	5.7	18
121	Sliding mode optimal regulator for a bolza-meyer criterion with non-quadratic state energy terms. , 2009, , .		17
122	Application of wireless sensor networks to environmental monitoring for sustainable mobility. , 2018, , .		17
123	A CONTROL VECTOR SIMPLEX APPROACH TO VARIABLE STRUCTURE CONTROL OF NONLINEAR SYSTEMS. <i>International Journal of Robust and Nonlinear Control</i> , 1997, 7, 321-335.	3.7	16
124	On boundary layer dimension reduction in sliding mode control of SISO uncertain nonlinear systems. , 0, , .		16
125	A robust control design for a class of uncertain non-linear systems featuring a second-order sliding mode. <i>International Journal of Control</i> , 1999, 72, 321-331.	1.9	16
126	A robust MPC/ISM hierarchical multi-loop control scheme for robot manipulators. , 2013, , .		16

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127	Higher Order Sliding Mode Observers in Power Grids With Traditional and Renewable Sources. , 2020, 4, 223-228.		16
128	Adaptive dual-layer super-twisting sliding mode observers to reconstruct and mitigate disturbances and communication attacks in power networks. Automatica, 2021, 129, 109656.	5.0	16
129	The proximity effect around high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2004, 350, L21-L25.	4.4	15
130	Master-slave second order sliding mode control for microgrids. , 2015, , .		15
131	Event-Triggered Sliding Mode Control algorithms for a class of uncertain nonlinear systems: experimental assessment. , 2016, , .		15
132	Stability and exponential stability of an adaptive control scheme for plants of any relative degree. IEEE Transactions on Automatic Control, 1995, 40, 100-104.	5.7	14
133	MIMO identification with optimal experiment design for rigid robot manipulators. , 2007, , .		14
134	Effects of freeze-dried red wine on cardiac function and ECG of the Langendorff-perfused rat heart. Canadian Journal of Physiology and Pharmacology, 2014, 92, 171-174.	1.4	14
135	Discrete Time Sliding Mode Control Strategies for Buffered Networked Systems. , 2018, , .		14
136	Multiple Moving Bottlenecks for Traffic Control in Freeway Systems. , 2019, , .		14
137	Adaptive control of siso plants with unmodelled dynamics. International Journal of Adaptive Control and Signal Processing, 1992, 6, 237-246.	4.1	13
138	A globally stabilizing hybrid variable structure control strategy. IEEE Transactions on Automatic Control, 2002, 47, 1334-1337.	5.7	13
139	Finite-time output stabilization with second order sliding modes. Automatica, 2009, 45, 2169-2171.	5.0	13
140	Freeway networks as Systems of Systems: An event-triggered distributed control scheme. , 2012, , .		13
141	Switched Second-Order Sliding Mode Control with Partial Information: Theory and Application. Asian Journal of Control, 2013, 15, 20-30.	3.0	13
142	Combined switched/time-based adaptation in second order sliding mode control. , 2013, , .		13
143	Sliding mode control algorithms for wheel slip control of road vehicles. , 2017, , .		13
144	An Overview of Traffic Control Schemes for Freeway Systems. Advances in Industrial Control, 2018, , 193-234.	0.5	13

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145	Event-Triggered Sliding Mode Control Strategies for a Class of Nonlinear Uncertain Systems. , 2018, , 397-425.		13
146	A new Micro-Macro METANET model for platoon control in freeway traffic networks. , 2018, , .		13
147	Vibration damping and second-order sliding modes in the control of a single finger of the AMADEUS gripper. International Journal of Systems Science, 1998, 29, 497-512.	5.5	12
148	Sliding mode control for urban vehicles platooning. , 2008, , .		12
149	Second-order sliding mode control of a platoon of vehicles. International Journal of Modelling, Identification and Control, 2008, 3, 277.	0.2	12
150	A dynamic obstacle avoidance strategy for a mobile robot based on sliding mode control. , 2009, , .		12
151	How Constitutive Model Complexity can Affect the Capability to Fit Experimental Data: a Focus on Human Carotid Arteries and Extension/Inflation Data. Archives of Computational Methods in Engineering, 2014, 21, 273-292.	10.2	12
152	Networked Sliding Mode Control with chattering alleviation. , 2014, , .		12
153	Distributed observers for state estimation in power grids. , 2017, , .		12
154	SVM Classification and Kalman Filter Based Estimation of the Tire-Road Friction Curve. IFAC-PapersOnLine, 2017, 50, 3382-3387.	0.9	12
155	VACS equipped vehicles for congestion dissipation in multi-class CTM framework. , 2019, , .		12
156	Hierarchical Centralized/Decentralized Event-Triggered Control of Multiclass Traffic Networks. IEEE Transactions on Control Systems Technology, 2021, 29, 1549-1564.	5.2	12
157	Speed regulation of induction motors: a sliding mode observer-differentiator based control scheme. , 0, , .		11
158	Second-order Sliding Mode Control with Adaptive Control Authority for the Tracking Control of Robotic Manipulators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10319-10324.	0.4	11
159	Design optimization of field-plate assisted RESURF devices. , 2013, , .		11
160	Cooperative Voltage Control in AC Microgrids. , 2018, , .		11
161	Sliding Modes for Voltage Regulation and Current Sharing in DC Microgrids. , 2018, , .		11
162	A Simplified Direct Approach to the Problem of Adaptive Pole Assignment. , 1991, , 89-96.		11

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163	Title is missing!. Journal of Dynamical and Control Systems, 1999, 9, 99-124.	0.4	10
164	Wheel slip control via second order sliding modes generation. , 2007, , .		10
165	Sliding mode observers for vision-based fault detection, isolation and identification in robot manipulators. , 2010, , .		10
166	Switched second order sliding mode control. , 2010, , .		10
167	Optimal disturbance rejection via integral sliding mode control for uncertain systems in regular form. , 2010, , .		10
168	Modeling and control of an airbrake electro-hydraulic smart actuator. Asian Journal of Control, 2012, 14, 1159-1170.	3.0	10
169	Design and Validation of a Distributed Observer-Based Estimation Scheme for Power Grids. IEEE Transactions on Control Systems Technology, 2020, 28, 680-687.	5.2	10
170	Automatic identification of the relative degree of nonlinear systems: Application to sliding mode control design and experimental assessment. Control Engineering Practice, 2020, 94, 104207.	5.5	10
171	A hierarchical MPC and sliding mode based two-level control for freeway traffic systems with partial demand information. European Journal of Control, 2021, 59, 152-164.	2.6	10
172	An Inverse Dynamics-Based Discrete-Time Sliding Mode Controller for Robot Manipulators. Lecture Notes in Control and Information Sciences, 2007, , 137-146.	1.0	10
173	Sliding Mode Optimization in Dynamic LTI Systems. Journal of Optimization Theory and Applications, 2002, 115, 727-740.	1.5	9
174	Speed regulation of induction motors: an adaptive sensorless sliding mode control scheme. , 2004, , .		9
175	Automatic pre-crash collision avoidance in cars. , 0, , .		9
176	Low Vibration Vehicle Traction Control to Solve Fastest Acceleration/Deceleration Problems Via Second Order Sliding Modes. Proceedings of the American Control Conference, 2007, , .	0.0	9
177	Interaction control of robotic manipulators via second-order sliding modes. International Journal of Adaptive Control and Signal Processing, 2007, 21, 708-730.	4.1	9
178	Actuators and sensors fault detection for robot manipulators via second order sliding mode observers. , 2008, , .		9
179	Higher Order Sliding Mode observers for actuator faults Diagnosis in robot manipulators. , 2010, , .		9
180	Torque-vectoring control in fully electric vehicles via integral sliding modes. , 2014, , .		9

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181	Trajectory tracking of mechanical systems with unilateral constraints: Experimental results of a recently introduced hybrid PD feedback controller. , 2015, , .		9
182	Third order sliding mode voltage control in microgrids. , 2015, , .		9
183	A Model Predictive Control scheme for freeway traffic systems based on the Classification And Regression Trees methodology. , 2015, , .		9
184	MPC with Sliding Mode Control for the Energy Management System of Microgrids * *Corresponding author: G.P. Incremona, Dipartimento di Ingegneria Civile e Architettura, University of Pavia, Via Ferrata 3, 27100 Pavia, Italy. IFAC-PapersOnLine, 2017, 50, 7397-7402.	0.9	9
185	Highway Traffic Control with Moving Bottlenecks of Connected and Automated Vehicles for Travel Time Reduction. , 2019, , .		9
186	Robustified Distributed Model Predictive Control for Coherence and Energy Efficiency-Aware Platooning. , 2019, , .		9
187	Fuzzy scheduling of robust controllers for islanded DC microgrids applications. International Journal of Dynamics and Control, 2019, 7, 690-700.	2.5	9
188	A Macroscopic Model for Platooning in Highway Traffic. SIAM Journal on Applied Mathematics, 2020, 80, 639-656.	1.8	9
189	Neural Network-Based Practical/Ideal Integral Sliding Mode Control. , 2022, 6, 3140-3145.		9
190	A Decentralized Higher Order Sliding Mode Control for Islanded Photovoltaic-Storage Systems. Energy, 2022, 255, 124502.	8.8	9
191	Modelling freeway systems: a new traffic fundamental diagram. Mathematical Modelling of Systems, 1997, 3, 201-218.	0.7	8
192	CONTROLLING A PLATOON OF VEHICLES VIA A SECOND ORDER SLIDING MODE APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 439-444.	0.4	8
193	Slip Control for Vehicles Platooning via Second Order Sliding Modes. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	8
194	A sub-optimal second order sliding mode controller for systems with saturating actuators. , 2008, , .		8
195	Environment modelling for the robust motion planning and control of planar rigid robot manipulators. , 2008, , .		8
196	Switched second order sliding mode for wheel slip control of road vehicles. , 2010, , .		8
197	Sliding mode observers for sensorless control of current-fed induction motors. , 2011, , .		8
198	Event-triggered strategies for the networked control of freeway traffic systems. , 2014, , .		8

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199	Third order Sliding Mode Control with box state constraints. , 2014, , .		8
200	Distributed consensus-based switched observers for freeway traffic density estimation. , 2015, , .		8
201	A Variable-Length cell road traffic model: Application to ring road speed limit optimization. , 2016, , .		8
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