

Antonella Ferrara

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

353 papers	7,899 citations	46 h-index	80 g-index
391 ext. papers	9,482 ext. citations	3.2 avg, IF	6.5 L-index

#	Paper	IF	Citations
353	Sliding Mode Optimization in Robot Dynamics With LPV Controller Design 2022 , 6, 1760-1765		1
352	Robust Multi-Model Predictive Control via Integral Sliding Modes 2022 , 6, 2623-2628		1
351	Two-Step Asynchronous Iterative Formation Control for Heterogeneous Vehicles in Highway Scenarios. <i>IEEE Transactions on Intelligent Vehicles</i> , 2021 , 1-1	5	1
350	Sliding Modes in Consensus Control. <i>Studies in Systems, Decision and Control</i> , 2021 , 181-202	0.8	
349	A hierarchical MPC and sliding mode based two-level control for freeway traffic systems with partial demand information. <i>European Journal of Control</i> , 2021 , 59, 152-164	2.5	5
348	Adaptive dual-layer super-twisting sliding mode observers to reconstruct and mitigate disturbances and communication attacks in power networks. <i>Automatica</i> , 2021 , 129, 109656	5.7	3
347	Predefined-Time Output Stabilization With Second Order Sliding Mode Generation. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1445-1451	5.9	9
346	A General Framework for Switched and Variable Gain Higher Order Sliding Mode Control. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1718-1724	5.9	9
345	Vehicle state and tyre force estimation: demonstrations and guidelines. <i>Vehicle System Dynamics</i> , 2021 , 59, 675-702	2.8	34
344	Self-Configuring Robot Path Planning With Obstacle Avoidance via Deep Reinforcement Learning 2021 , 5, 397-402		15
343	Traffic Control Via Platoons of Intelligent Vehicles for Saving Fuel Consumption in Freeway Systems 2021 , 5, 593-598		5
342	Constrained Nonlinear Discrete-Time Sliding Mode Control Based on a Receding Horizon Approach. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 3802-3809	5.9	4
341	Hierarchical Centralized/Decentralized Event-Triggered Control of Multiclass Traffic Networks. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 1549-1564	4.8	4
340	Experimental Assessment of Deep Reinforcement Learning for Robot Obstacle Avoidance: A LPV Control Perspective. <i>IFAC-PapersOnLine</i> , 2021 , 54, 89-94	0.7	0
339	Sliding Mode Observer-Based Finite Time Control Scheme for Frequency Regulation and Economic Dispatch in Power Grids. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-8	4.8	1
338	Adaptive Control of Multivariable Networked Systems with uncertain Time Delays. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
337	A Survey on Event-Triggered Sliding Mode Control. <i>IEEE Journal of Emerging and Selected Topics in Industrial Electronics</i> , 2021 , 2, 206-217	2.6	5

336	Freeway traffic control: A survey. <i>Automatica</i> , 2021 , 130, 109655	5.7	7
335	An Iterative Data-Driven Linear Quadratic Method to Solve Nonlinear Discrete-Time Tracking Problems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
334	A Macroscopic Model for Platooning in Highway Traffic. <i>SIAM Journal on Applied Mathematics</i> , 2020 , 80, 639-656	1.8	5
333	Sliding Mode Fault Diagnosis with Vision in the Loop for Robot Manipulators. <i>Studies in Systems, Decision and Control</i> , 2020 , 81-105	0.8	1
332	Local and Wide-Area Sliding-Mode Observers in Power Systems. <i>Studies in Systems, Decision and Control</i> , 2020 , 359-391	0.8	0
331	A Novel Formation Creation Algorithm for Heterogeneous Vehicles in Highway Scenarios: Assessment and Experimental Validation. <i>IFAC-PapersOnLine</i> , 2020 , 53, 15300-15305	0.7	
330	Traffic control for the improvement of sustainability in freeway networks: a bibliometric analysis. <i>IFAC-PapersOnLine</i> , 2020 , 53, 17505-17510	0.7	
329	Search-Based Motion Planning for Performance Autonomous Driving. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 1144-1154	0.4	0
328	Constrained Sliding-Mode Control: A Survey. <i>Studies in Systems, Decision and Control</i> , 2020 , 149-175	0.8	3
327	Automatic identification of the relative degree of nonlinear systems: Application to sliding mode control design and experimental assessment. <i>Control Engineering Practice</i> , 2020 , 94, 104207	3.9	3
326	Balancing-Aware Charging Strategy for Series-Connected Lithium-Ion Cells: A Nonlinear Model Predictive Control Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1862-1877	4.8	8
325	Design and Validation of a Distributed Observer-Based Estimation Scheme for Power Grids. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 680-687	4.8	7
324	Robust load frequency control of nonlinear power networks** Preliminary results appeared in Trip, Cucuzzella, Ferrara, and De Persis (2017).View all notes. <i>International Journal of Control</i> , 2020 , 93, 346-359	1.5	15
323	Event-triggered variable structure control. <i>International Journal of Control</i> , 2020 , 93, 252-260	1.5	23
322	Higher Order Sliding Mode Observers in Power Grids With Traditional and Renewable Sources 2020 , 4, 223-228		10
321	A Sliding-Mode Virtual Sensor for Wheel Forces Estimation With Accuracy Enhancement via EKF. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 3457-3471	6.8	16
320	A Robust Consensus Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1583-1595	4.8	66
319	Passivity-Based Design of Sliding Modes for Optimal Load Frequency Control. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 1893-1906	4.8	22

318	Traffic control for freeway networks with sustainability-related objectives: Review and future challenges. <i>Annual Reviews in Control</i> , 2019 , 48, 312-324	10.3	11
317	Switched adaptation strategies for integral sliding mode control: Theory and application. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 6064-6080	3.6	0
316	Tracking control via switched Integral Sliding Mode with application to robot manipulators. <i>Control Engineering Practice</i> , 2019 , 90, 257-266	3.9	15
315	Variable Gains Decentralized Super-Twisting Sliding Mode Controllers for Large-Scale Modular Systems 2019 ,		2
314	Multiple Moving Bottlenecks for Traffic Control in Freeway Systems 2019 ,		6
313	Advanced and Optimization Based Sliding Mode Control: Theory and Applications 2019 ,		15
312	Integral Second-Order Sliding Modes for Robust Prescribed-Time Leader-Follower Consensus Control with Partial Information 2019 ,		2
311	Decentralized Model Predictive Control of Freeway Traffic Systems over Lossy Communication Networks 2019 ,		1
310	VACS equipped vehicles for congestion dissipation in multi-class CTM framework 2019 ,		7
309	Highway Traffic Control with Moving Bottlenecks of Connected and Automated Vehicles for Travel Time Reduction 2019 ,		5
308	Discrete-time Model Reference Adaptive Sliding Mode Control for Systems in State-Space Representation 2019 ,		1
307	Robustified Distributed Model Predictive Control for Coherence and Energy Efficiency-Aware Platooning 2019 ,		5
306	Trailer control through vehicle yaw moment control: Theoretical analysis and experimental assessment. <i>Mechatronics</i> , 2019 , 64, 102282	3	10
305	Fuzzy scheduling of robust controllers for islanded DC microgrids applications. <i>International Journal of Dynamics and Control</i> , 2019 , 7, 690-700	1.7	1
304	Optimization-based adaptive sliding mode control with application to vehicle dynamics control. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 550-564	3.6	22
303	Second-Order Macroscopic Traffic Models. <i>Advances in Industrial Control</i> , 2018 , 85-111	0.3	3
302	Freeway Traffic Modelling and Control. <i>Advances in Industrial Control</i> , 2018 ,	0.3	30
301	Fundamentals of Traffic Dynamics. <i>Advances in Industrial Control</i> , 2018 , 25-44	0.3	0

300	State Estimation in Freeway Traffic Systems. <i>Advances in Industrial Control</i> , 2018 , 169-190	0.3	3
299	An Overview of Traffic Control Schemes for Freeway Systems. <i>Advances in Industrial Control</i> , 2018 , 193-234	0.3	8
298	Implementation-Oriented Freeway Traffic Control Strategies. <i>Advances in Industrial Control</i> , 2018 , 235-267	0.3	1
297	Freeway Traffic Systems. <i>Advances in Industrial Control</i> , 2018 , 3-23	0.3	2
296	First-Order Macroscopic Traffic Models. <i>Advances in Industrial Control</i> , 2018 , 47-84	0.3	2
295	Sliding mode voltage control of boost converters in DC microgrids. <i>Control Engineering Practice</i> , 2018 , 73, 161-170	3.9	51
294	Practical second order sliding modes in single-loop networked control of nonlinear systems. <i>Automatica</i> , 2018 , 89, 235-240	5.7	37
293	Event-Triggered Sliding Mode Control Strategies for a Class of Nonlinear Uncertain Systems 2018 , 397-425		7
292	Emerging Freeway Traffic Control Strategies. <i>Advances in Industrial Control</i> , 2018 , 293-311	0.3	1
291	Emission Models for Freeway Traffic Systems. <i>Advances in Industrial Control</i> , 2018 , 145-167	0.3	2
290	Sliding Modes for Voltage Regulation and Current Sharing in DC Microgrids 2018 ,		6
289	On the feedback control of hitch angle through torque-vectoring 2018 ,		2
288	Microscopic and Mesoscopic Traffic Models. <i>Advances in Industrial Control</i> , 2018 , 113-143	0.3	2
287	Application of wireless sensor networks to environmental monitoring for sustainable mobility 2018 ,		11
286	Control Strategies for Sustainable Mobility in Freeways. <i>Advances in Industrial Control</i> , 2018 , 269-291	0.3	2
285	Sliding Modes Control in Vehicle Longitudinal Dynamics Control. <i>Studies in Systems, Decision and Control</i> , 2018 , 357-383	0.8	5
284	Discrete Time Sliding Mode Control Strategies for Buffered Networked Systems 2018 ,		9
283	Cooperative Voltage Control in AC Microgrids 2018 ,		8

282	Deep Reinforcement Learning Based Self-Configuring Integral Sliding Mode Control Scheme for Robot Manipulators 2018 ,		2
281	A Discrete-Time Optimization-Based Sliding Mode Control Law for Linear Systems with Input and State Constraints 2018 ,		2
280	Traffic control via moving bottleneck of coordinated vehicles. <i>IFAC-PapersOnLine</i> , 2018 , 51, 13-18	0.7	30
279	Development of Multi-Actuated Ground Vehicles: Educational aspects. <i>IFAC-PapersOnLine</i> , 2018 , 51, 236-242	0.7	0
278	A multi-rate ISM approach for robust vehicle stability control during cornering. <i>IFAC-PapersOnLine</i> , 2018 , 51, 249-254	0.7	1
277	A multi-class decentralised event-triggered control framework for congestion and emission reduction in freeway networks. <i>IFAC-PapersOnLine</i> , 2018 , 51, 291-298	0.7	2
276	Distributed Super-Twisting Sliding Mode Observers for Fault Reconstruction and Mitigation in Power Networks 2018 ,		6
275	Robust Current Decoupling in a Permanent Magnet Motor Combining a Geometric Method and SMC 2018 ,		1
274	A variable-length Cell Transmission Model for road traffic systems. <i>Transportation Research Part C: Emerging Technologies</i> , 2018 , 97, 428-455	8.4	10
273	A Super-Twisting-Like Sliding Mode Observer for Frequency Reconstruction in Power Systems: Discussion and Real Data Based Assessment 2018 ,		2
272	A new Micro-Macro METANET model for platoon control in freeway traffic networks 2018 ,		5
271	Deep Reinforcement Learning for Collision Avoidance of Robotic Manipulators 2018 ,		21
270	Robust voltage regulation of boost converters in DC microgrids 2018 ,		1
269	Sliding mode observers for a network of thermal and hydroelectric power plants. <i>Automatica</i> , 2018 , 98, 51-57	5.7	15
268	Relative Degree Identification for Sliding Mode Controllers Design 2018 ,		1
267	Linearization-Based Integral Sliding Mode Control for a Class of Constrained Nonlinear Systems 2018 ,		3
266	Integral Sliding Mode Based Switched Structure Control Scheme for Robot Manipulators 2018 ,		2
265	Sliding Mode Based Dynamic State Estimation for Synchronous Generators in Power Systems 2018 , 2, 785-790		6

264	Asynchronous Networked MPC With ISM for Uncertain Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 4305-4317	5.9	47
263	MPC for Robot Manipulators With Integral Sliding Modes Generation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1299-1307	5.5	71
262	Decentralized Sliding Mode Control of Islanded AC Microgrids With Arbitrary Topology. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6706-6713	8.9	51
261	Third Order Sliding Mode Observer-Based Approach for Distributed Optimal Load Frequency Control 2017 , 1, 215-220		27
260	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. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7397-7402	0.7	5
259	Second order sliding mode control for nonlinear affine systems with quantized uncertainty. <i>Automatica</i> , 2017 , 86, 46-52	5.7	14
258	Distributed observers for state estimation in power grids 2017 ,		10
257	Model predictive control with state estimation for freeway systems 2017 ,		4
256	Sliding mode control algorithms for wheel slip control of road vehicles 2017 ,		4
255	Decentralized Sliding Mode voltage control in DC microgrids 2017 ,		21
254	Distributed Second Order Sliding Modes for Optimal Load Frequency Control 2017 ,		14
253	Switched Integral Suboptimal Second-Order Sliding Mode Control 2017 ,		1
252	Sliding Mode Control of Constrained Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2965-2972	5.9	92
251	Model predictive control and sliding mode control for current sharing in microgrids 2017 ,		1
250	Wheel forces estimation via adaptive sub-optimal second order sliding mode observers 2017 ,		3
249	An energy function based design of second order sliding modes for Automatic Generation Control. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11613-11618	0.7	3
248	SVM Classification and Kalman Filter Based Estimation of the Tire-Road Friction Curve. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3382-3387	0.7	6
247	Congestion and Emissions Reduction in Freeway Traffic Networks via Supervisory Event-triggered Control. <i>IFAC-PapersOnLine</i> , 2017 , 50, 4240-4245	0.7	6

246	Second-order sliding mode observers for fault reconstruction in power networks. <i>IET Control Theory and Applications</i> , 2017 , 11, 2772-2782	2.5	18
245	Supervisory multi-class event-triggered control for congestion and emissions reduction in freeways 2017 ,		4
244	Towards networked sliding mode control 2017 ,		4
243	Higher order sliding mode observers and nonlinear algebraic estimators for state tracking in power networks 2017 ,		5
242	Event-Triggered Sliding Mode Control algorithms for a class of uncertain nonlinear systems: experimental assessment 2016 ,		13
241	Sliding mode control for LPV systems 2016 ,		2
240	Switched/time-based adaptation for second-order sliding mode control. <i>Automatica</i> , 2016 , 64, 126-132	5.7	36
239	Adaptive suboptimal second-order sliding mode control for microgrids. <i>International Journal of Control</i> , 2016 , 89, 1849-1867	1.5	54
238	Design of networked freeway traffic controllers based on event-triggered control concepts. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 1162-1183	3.6	16
237	Adaptive model-based event-triggered sliding mode control. <i>International Journal of Adaptive Control and Signal Processing</i> , 2016 , 30, 1298-1316	2.8	18
236	A Variable-Length cell road traffic model: Application to ring road speed limit optimization 2016 ,		4
235	Switched observer-based ramp metering controllers for freeway systems 2016 ,		6
234	Sliding mode control for Maximum Power Point Tracking of photovoltaic inverters in microgrids 2016 ,		4
233	Event-triggered second order sliding mode control of nonlinear uncertain systems 2016 ,		14
232	Experimental evaluation of nonlinear unknown input observers applied to an EPS system 2016 ,		4
231	Switched third-order sliding mode control 2016 ,		3
230	A Supervisory Sliding Mode Control Approach for Cooperative Robotic System of Systems. <i>IEEE Systems Journal</i> , 2015 , 9, 263-272	4.3	36
229	Design of Robust Higher Order Sliding Mode Control for Microgrids. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2015 , 5, 393-401	5.2	63

228	Master-slave second order sliding mode control for microgrids 2015 ,		12
227	Bayesian Estimation of the Aortic Stiffness based on Non-invasive Computed Tomography Images. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015 , 133-142	0.2	
226	The boost transistor: A field plate controlled LDMOST 2015 ,		3
225	Accelerated resistance degradation in aluminum by pulsed power cycling 2015 ,		2
224	Integral Sliding Mode for the Torque-Vectoring Control of Fully Electric Vehicles: Theoretical Design and Experimental Assessment. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 1701-1715	6.8	79
223	Multirate sliding mode disturbance compensation for model predictive control. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 2984-3003	3.6	20
222	Hierarchical Model Predictive/Sliding Mode Control of Nonlinear Constrained Uncertain Systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 102-109	0.7	14
221	A switched ramp-metering controller for freeway traffic systems. <i>IFAC-PapersOnLine</i> , 2015 , 48, 105-110	0.7	3
220	Trajectory tracking of mechanical systems with unilateral constraints: Experimental results of a recently introduced hybrid PD feedback controller 2015 ,		7
219	Design of an Integral Suboptimal Second-Order Sliding Mode Controller for the Robust Motion Control of Robot Manipulators. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 2316-2325	4.8	98
218	Event-triggered model predictive schemes for freeway traffic control. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 58, 554-567	8.4	45
217	Freeways as Systems of Systems: A Distributed Model Predictive Control Scheme. <i>IEEE Systems Journal</i> , 2015 , 9, 312-323	4.3	27
216	Distributed consensus-based switched observers for freeway traffic density estimation 2015 ,		7
215	Load alteration fault detection and reconstruction in power networks modelled in semi-explicit differential algebraic equation form 2015 ,		2
214	Third order sliding mode voltage control in microgrids 2015 ,		7
213	A Model Predictive Control scheme for freeway traffic systems based on the Classification And Regression Trees methodology 2015 ,		6
212	Model-based event-triggered control for freeway traffic systems 2015 ,		4
211	How Constitutive Model Complexity can Affect the Capability to Fit Experimental Data: a Focus on Human Carotid Arteries and Extension/Inflation Data. <i>Archives of Computational Methods in Engineering</i> , 2014 , 21, 273-292	7.8	12

210	Patient-specific simulation of a stentless aortic valve implant: the impact of fibres on leaflet performance. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17, 277-85	2.1	21
209	Torque-vectoring control in fully electric vehicles via integral sliding modes 2014 ,		7
208	Hierarchical control of overactuated vehicles via sliding mode techniques 2014 ,		2
207	Third order Sliding Mode Control with box state constraints 2014 ,		7
206	Networked Sliding Mode Control with chattering alleviation 2014 ,		9
205	Dynamic Sliding Mode Control Design Based on an Integral Manifold for Nonlinear Uncertain Systems. <i>Journal of Nonlinear Dynamics</i> , 2014 , 2014, 1-10		4
204	Distributed Model Predictive Control for MLD systems: Application to freeway ramp metering 2014 ,		2
203	Switched sliding mode control strategy for networked systems 2014 ,		1
202	Time-varying triggering conditions for the robust control of freeway systems 2014 ,		4
201	Model-based event-triggered robust MPC/ISM 2014 ,		27
200	Event-triggered strategies for the networked control of freeway traffic systems 2014 ,		7
199	Effects of freeze-dried red wine on cardiac function and ECG of the Langendorff-perfused rat heart. <i>Canadian Journal of Physiology and Pharmacology</i> , 2014 , 92, 171-4	2.4	12
198	Simulation-based assessment of natural robustness of freeway traffic systems controlled via MPC 2014 ,		2
197	Switched Second-Order Sliding Mode Control with Partial Information: Theory and Application. <i>Asian Journal of Control</i> , 2013 , 15, 20-30	1.7	12
196	Enhancing Robustness and Performance via Switched Second Order Sliding Mode Control. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 962-974	5.9	31
195	Obstacle Modelling Oriented to Safe Motion Planning and Control for Planar Rigid Robot Manipulators. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013 , 71, 159-178	2.9	6
194	Robust motion control of a robot manipulator via Integral Suboptimal Second Order Sliding Modes 2013 ,		4
193	Supervisory Model Predictive Control for freeway traffic systems 2013 ,		6

192	Design optimization of field-plate assisted RESURF devices 2013 ,		8
191	Improving continuous approximation of Sliding Mode Control 2013 ,		2
190	The escape fraction of ionizing photons from high-redshift galaxies from data-constrained reionization models. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013 , 428, L1-L5	4.3	70
189	Adaptive networked model predictive control of freeway traffic systems 2013 ,		2
188	Combined switched/time-based adaptation in second order sliding mode control 2013 ,		10
187	Patient-specific finite element analysis of carotid artery stenting: a focus on vessel modeling. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013 , 29, 645-64	2.6	32
186	A robust MPC/ISM hierarchical multi-loop control scheme for robot manipulators 2013 ,		12
185	Wheel slip control of road vehicles via switched second order sliding modes. <i>International Journal of Vehicle Design</i> , 2013 , 62, 231	2.4	3
184	Networked model predictive traffic control with time varying optimization horizon: The Grenoble South Ring case study 2013 ,		5
183	Case-study based performance assessment of an event-triggered MPC scheme for freeway systems 2013 ,		3
182	Sliding mode optimal control for linear systems. <i>Journal of the Franklin Institute</i> , 2012 , 349, 1350-1363	4	27
181	Trajectory Planning and Second-Order Sliding Mode Motion/Interaction Control for Robot Manipulators in Unknown Environments. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3189-3198	8.9	89
180	Manipulator Fault Diagnosis via Higher Order Sliding-Mode Observers. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3979-3986	8.9	88
179	Freeway networks as Systems of Systems: An event-triggered distributed control scheme 2012 ,		8
178	Comparison and critical analysis of invariant-based models with respect to their ability in fitting human aortic valve data. <i>Annals of Solid and Structural Mechanics</i> , 2012 , 4, 1-14	0.5	18
177	2012 ,		12
176	A switched second-order sliding mode control algorithm for non-affine systems with saturations 2012 ,		2
175	Modeling and control of an airbrake electro-hydraulic smart actuator. <i>Asian Journal of Control</i> , 2012 , 14, 1159-1170	1.7	9

174	Distributed identification of the Cell Transmission traffic model: A case study 2012 ,		2
173	Platooning control of autonomous nonholonomic mobile robots in a human-robot coexisting environment 2012 ,		2
172	Time-based switched sliding mode control for yaw rate regulation in two-wheeled vehicles 2012 ,		4
171	An event-triggered Model Predictive Control scheme for freeway systems 2012 ,		23
170	Robust Model Predictive Control With Integral Sliding Mode in Continuous-Time Sampled-Data Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 556-570	5.9	114
169	MIMO Closed Loop Identification of an Industrial Robot. <i>IEEE Transactions on Control Systems Technology</i> , 2011 , 19, 1214-1224	4.8	58
168	Integral Sliding Mode Control for Nonlinear Systems With Matched and Unmatched Perturbations. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 2699-2704	5.9	162
167	Second-order Sliding Mode Control with Adaptive Control Authority for the Tracking Control of Robotic Manipulators. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 10319-10324		6
166	Temperature estimation of cooking vessel content via EKF and sliding mode observers in induction cooking systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 4350-4355		1
165	Enhanced Switched Second Order SM Control for Active Braking in Two-wheeled Vehicles. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 11919-11924		
164	Time-optimal sliding-mode control of a mobile robot in a dynamic environment. <i>IET Control Theory and Applications</i> , 2011 , 5, 1916-1924	2.5	25
163	Active braking control for two-wheeled vehicles via switched second order sliding modes 2011 ,		4
162	Sliding mode observers for sensorless control of current-fed induction motors 2011 ,		5
161	Second Order Sliding Modes to Control and Supervise Industrial Robot Manipulators. <i>Lecture Notes in Control and Information Sciences</i> , 2011 , 541-567	0.5	3
160	Switched second order sliding mode control with partial information 2011 ,		1
159	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	1.5	14
158	Sliding mode observers for vision-based fault detection, isolation and identification in robot manipulators 2010 ,		5
157	Switched second order sliding mode control 2010 ,		8

156	Configuration space analysis oriented to robust control and obstacle avoidance of manipulators 2010 ,		3
155	Robust interaction control via first and second order sliding modes of planar robotic manipulators 2010 ,		1
154	Wheel Slip Control via Second-Order Sliding-Mode Generation. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2010 , 11, 122-131	6.1	105
153	Higher Order Sliding Mode observers for actuator faults Diagnosis in robot manipulators 2010 ,		3
152	Optimal disturbance rejection via integral sliding mode control for uncertain systems in regular form 2010 ,		8
151	Switched second order sliding mode for wheel slip control of road vehicles 2010 ,		6
150	Second order sliding mode control of a perturbed double integrator with state constraints 2010 ,		17
149	A Nonlinear Model Predictive Control Scheme with Multirate Integral Sliding Mode *. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 232-237		2
148	A numerical study of arterial media dissection processes. <i>International Journal of Fracture</i> , 2010 , 166, 21-33	2.3	33
147	Robust Model Predictive Control of continuous-time sampled-data nonlinear systems with Integral Sliding Mode 2009 ,		1
146	A sub-optimal second order sliding mode controller for current-fed induction motors 2009 ,		1
145	Hybrid position/force sliding mode control of a class of robotic manipulators 2009 ,		5
144	A dynamic obstacle avoidance strategy for a mobile robot based on sliding mode control 2009 ,		9
143	Comparing Internal Model Control and Sliding-Mode Approaches for Vehicle Yaw Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2009 , 10, 31-41	6.1	52
142	Sliding mode optimal regulator for a bolza-meyer criterion with non-quadratic state energy terms 2009 ,		15
141	Visual Interaction for Real-Time Navigation of Autonomous Mobile Robots 2009 ,		1
140	Second order sliding mode control of vehicles with distributed collision avoidance capabilities. <i>Mechatronics</i> , 2009 , 19, 471-477	3	52
139	Finite-time output stabilization with second order sliding modes. <i>Automatica</i> , 2009 , 45, 2169-2171	5.7	11

138	Second Order Sliding Mode for traction control in ride-by-wire sport motorcycles 2009 ,		4
137	. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 3347-3356	8.9	46
136	A Sub-Optimal Second Order Sliding Mode Controller for Systems With Saturating Actuators. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1082-1087	5.9	52
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15	Application of hybrid techniques to the modelling of interurban road networks		2
14	Sliding Mode Control for Automatic Driving of a Platoon of Vehicles		4
13	Constrained optimization via sliding modes in dynamic linear systems		2

12	Automatic pre-crash collision avoidance in cars	6
11	A collision risk assessment approach as a basis for the on-board warning generation in cars	2
10	Speed regulation of induction motors: a sliding mode observer-differentiator based control scheme	3
9	An observer-based second order sliding mode vehicle control strategy	4
8	On boundary layer dimension reduction in sliding mode control of SISO uncertain nonlinear systems	11
7	Application of a multi-input backstepping design with second order sliding modes to control mechanical systems with flexibility	1
6	A hybrid sliding mode control for systems with hard uncertainties	3
5	A combined backstepping/second order sliding mode approach to control a class of nonlinear systems	14
4	Second order VSC for non linear systems subjected to a wide class of uncertainty conditions	4
3		4
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1	Longitudinal vehicle dynamics control via sliding modes generation33-76	4