Roberto Sacile

List of Publications by Year
in descending order

108 papers	2,681 citations	270111 25 h-index	223390 49 g-index
112 all docs	112 docs citations	112 times ranked	2832 citing authors

#	Article	IF	Citations
1	Non-linear MPC for Longitudinal and Lateral Control of Vehicleâ€™s Platoon with Insert and Exit Manoeuvres. Lecture Notes in Electrical Engineering, 2022, , 497-518.	0.3	0
2	Introduction to the special section humans and industry 4.0. Cognition, Technology and Work, 2022, 24, 1-5.	1.7	3
3	Optimal Control of Smart Distributed Power and Energy Systems. Energies, 2022, 15, 3.	1.6	0
4	Internet of Things Approaches for Monitoring and Control of Smart Greenhouses in Industry 4.0. Energies, 2022, 15, 3834.	1.6	22
5	Binary Controller Based on the Electrical Activity Related to Head Yaw Rotation. Actuators, 2022, 11, 161.	1.2	0
6	Proportional Integral Derivative Decentralized Control vs Linear Quadratic Tracking Regulator in Vehicle Overtaking within a Platoon. , 2022, , .		0
7	Min-Max Approach for High-Speed Train Scheduling and Rescheduling Models. IEEE Access, 2021, 9, 41042-41051.	2.6	2
8	A BCI Driving System to Understand Brain Signals Related to Steering. , 2021, , .		0
9	Real-time Robust Trajectory Control for Vehicle Platoons: A Linear Matrix Inequality-based Approach. , 2021, , .		1
10	Identification of Brain Electrical Activity Related to Head Yaw Rotations. Sensors, 2021, 21, 3345.	2.1	3
11	Model Predictive Control versus Traditional Relay Control in a High Energy Efficiency Greenhouse. Energies, 2021, 14, 3353.	1.6	9
12	A BCI Driving System to Understand Brain Signals Related to Steering. , 2021, , .		0
13	Real-time Robust Trajectory Control for Vehicle Platoons: A Linear Matrix Inequality-based Approach. , 2021, , .		1
14	Model Predictive Control of Smart Greenhouses as the Path towards Near Zero Energy Consumption. Energies, 2020, 13, 3647.	1.6	42
15	High-speed train scheduling and rescheduling models. , 2020, , .		0
16	Emergency resource allocation problem: hazardous material accident scenarios in the ports of Northern Italy. , 2020, , .		2
17	A Model Predictive Control Strategy for Distribution Grids: Voltage and Frequency Regulation for Islanded Mode Operation. Energies, 2020, 13, 2637.	1.6	7
18	Model predictive control of a vehicle platoon. , 2020, , .		15

#	Article	IF	Citations
19	Stochastic constrained linear quadratic control in a network of smart microgrids. IET Renewable Power Generation, 2020, 14, 1193-1200.	1.7	4
20	Model Predictive Control for Cooperative Insertion or Exit of a Vehicle in a Platoon. , 2020, , .		12
21	Storing and Transporting Hazardous Material, Logistics Strategies for Moroccan Companies. Advances in Science, Technology and Engineering Systems, 2020, 5, 21-33.	0.4	1
22	Distributed Product Flow Control in a Network of Inventories With Stochastic Production and Demand. IEEE Access, 2019, 7, 22486-22494.	2.6	4
23	Two new approaches for the bi-objective shortest path with a fuzzy objective applied to HAZMAT transportation. Journal of Hazardous Materials, 2019, 375, 96-106.	6.5	20
24	Optimal Planning With Technology Selection for Wind Power Plants in Power Distribution Networks. IEEE Systems Journal, 2019, 13, 3059-3069.	2.9	16
25	An oil spill trajectory model: validation in the Mediterranean Sea. , 2019, , .		7
26	Towards real-time monitoring of fear in driving sessions. IFAC-PapersOnLine, 2019, 52, 299-304.	0.5	10
27	A decision support system for the optimal location of electric vehicle charging points. , 2019, , .		2
28	Train scheduling and rescheduling model based oncustomer satisfaction. Application to Genoa railway network. , 2018, , .		4
29	Deployment of a Hydrogen Supply Chain. , 2018, , 53-93.		0
30	Network Planning of Hydrogen Supply Chain. , 2018, , 95-125.		0
31	Risk analysis for hazardous material transport by road: case study on Tangier-Tetouan region, Morocco. , 2018, , .		5
32	An original approach to ranking fuzzy numbers by inclusion index and Bitset Encoding. Fuzzy Optimization and Decision Making, 2017, 16, 23-49.	3.4	15
33	Distributed Robust Control of the Power Flows in a Team of Cooperating Microgrids. IEEE Transactions on Control Systems Technology, 2017, 25, 1473-1479.	3.2	22
34	Mixed vendor/retailer management of zero-cost multill-inventory systems. , 2017, , .		0
35	Energy modelling and decision support algorithm for the exploitation of biomass resources in industrial districts. International Journal of Heat and Technology, 2017, 35, S322-S329.	0.3	4
36	Global energy management system for cooperative networked residential green buildings. IET Renewable Power Generation, 2016, 10, 1237-1244.	1.7	16

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37	Bi-objective shortest path problem with one fuzzy cost function applied to dangerous goods transportation on a road network. , 2016, , .		5
38	Towards dynamic exposure-based schedule for hazardous material trains. Journal of Rail Transport Planning and Management, 2016, 6, 116-127.	0.8	7
39	Enhancing safety of transport by road by on-line monitoring of driver emotions. , 2016, , .		28
40	A dynamic decision model for the optimal use of forest biomass for energy production. Energy Systems, 2016, 7, 615-635.	1.8	8
41	A system of systems approach to evaluate at-risk human behaviour in the transport by road. , 2015, , .		2
42	A multi-criteria methodology to evaluate the optimal location of a multifunctional railway portal on the railway network. Journal of Rail Transport Planning and Management, 2015, 5, 78-91.	0.8	9
43	Guest Editorial: Special Issue on Systems Engineering in Cooperative and Competitive Distributed Decision Making for Complex Dynamic Systems. IEEE Systems Journal, 2015, 9, 209-211.	2.9	0
44	Coordinated Model Predictive-Based Power Flows Control in a Cooperative Network of Smart Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 2233-2244.	6.2	151
45	Optimal control of coastal aquifer pumping towards the sustainability of water supply and salinity. Sustainability of Water Quality and Ecology, 2015, 6, 88-100.	2.0	4
46	Rapid, robust, distributed evaluation and control of train scheduling on a single line track. Control Engineering Practice, 2015, 35, 12-21.	3.2	18
47	Optimal Control of Power Flows and Energy Local Storages in a Network of Microgrids Modeled as a System of Systems. IEEE Transactions on Control Systems Technology, 2015, 23, 128-138.	3.2	88
48	On the application of Valuation-Based Systems in the assessment of the probability bounds of Hazardous Material transportation accidents occurrence. Safety Science, 2015, 72, 83-96.	2.6	21
49	A scalable communication middleware for real-time data collection of dangerous goods vehicle activities. Transportation Research Part C: Emerging Technologies, 2014, 48, 404-417.	3.9	22
50	Decentralized Control of the Power Flows in a Network of Smart Microgrids Modeled as a Team of Cooperative Agents. IEEE Transactions on Control Systems Technology, 2014, 22, 510-519.	3.2	82
51	Real-timefastest path algorithm using bidirectional point-to-point search on a Fuzzy Time-Dependent transportation network. , 2014, , .		6
52	Distributed optimal control of a network of virtual power plants with dynamic price mechanism. , 2014, , .		3
53	Optimal Control of a Network of Power Microgrids Using the Pontryagin's Minimum Principle. IEEE Transactions on Control Systems Technology, 2014, 22, 1942-1948.	3.2	56
54	Optimal Deliveries in a Vendor Managed Inventory Service. International Journal of Applied Logistics, 2014, 5, 1-14.	0.6	3

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55	Ranking Triangular Fuzzy Numbers Using Fuzzy Set Inclusion Index. Lecture Notes in Computer Science, 2013, , 100-108.	1.0	4
56	An overview of a multiagent-based simulation system for dynamic management of risk related to Dangerous Goods Transport. , 2013, , .		9
57	A Risk-Based System of Systems Approach to Control the Transport Flows of Dangerous Goods by Road. IEEE Systems Journal, 2013, 7, 561-570.	2.9	13
58	Conference chair welcome message. , 2012, , .		0
59	A regional decision support system for locating future hydrogen refueling stations. , 2012, , .		0
60	Analysis of moroccan wind and solar potential using artificial neural network approach. , 2012, , .		1
61	Operational and real-time team decision problems in the risk-averse transportation of dangerous goods by road. , 2012, , .		3
62	Optimal control strategy for the wind power exchanges in a network of microgrids. , 2012, , .		0
63	Short term forecast of wind power by an artificial neural network approach. , 2012, , .		3
64	A decentralised control model for the risk-based management of dangerous good transport flows on road. , 2012, , .		4
65	Modeling and optimization of a hybrid system for the energy supply of a â€œGreenâ€•building. Energy Conversion and Management, 2012, 64, 351-363.	4.4	149
66	Technical and Functional Standards to Provide a High Quality Service for Dangerous Good Transport on Road. NATO Science for Peace and Security Series C: Environmental Security, 2012, , 75-94.	0.1	0
67	Modelling and control of hydrogen and energy flows in a network of green hydrogen refuelling stations powered by mixed renewable energy systems. International Journal of Hydrogen Energy, 2012, 37, 5360-5371.	3.8	58
68	A decision support system for the optimal exploitation of wind energy on regional scale. Renewable Energy, 2012, 37, 299-309.	4.3	36
69	Optimal Control in a Cooperative Network of Smart Power Grids. IEEE Systems Journal, 2012, 6, 126-133.	2.9	61
70	Optimization and control of hydrogen and energy flows in a Green Hydrogen Refuelling Stations. , 2011, , .		0
71	Ionic Channel Current Burst Analysis by a Machine Learning Based Approach. IEEE Transactions on Nanobioscience, 2011, 10, 152-159.	2.2	2
72	A regional decision support system for onsite renewable hydrogen production from solar and wind energy sources. International Journal of Hydrogen Energy, 2011, 36, 14324-14334.	3.8	80

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73	An optimization model for a mechanical vapor compression desalination plant driven by a wind/PV hybrid system. Applied Energy, 2011, 88, 4042-4054.	5.1	59
74	Thermal analysis and performance optimization of a solar water heater flat plate collector: Application to TÃ©touan (Morocco). Renewable and Sustainable Energy Reviews, 2011, 15, 630-638.	8.2	67
75	Optimal control of a regional power microgrid network driven by wind and solar energy. , 2011, , .		7
76	Optimal traffic flow assignment for planned deliveries in dangerous good transportation. , 2011, , .		2
77	Remote characterization of seafloor adjacent to shipwrecks using mosaicking and analysis of backscatter response. European Journal of Remote Sensing, 2011, , 77-92.	0.2	4
78	Risk evaluation of realâ€time accident scenarios in the transport of hazardous material on road. Management of Environmental Quality, 2010, 21, 695-711.	2.2	16
79	A Dynamic Decision Model for the Real-Time Control of Hybrid Renewable Energy Production Systems. IEEE Systems Journal, 2010, 4, 323-333.	2.9	80
80	Wind energy potential in Liguria region. Renewable and Sustainable Energy Reviews, 2010, 14, 289-300.	8.2	16
81	Monthly and seasonal assessment of wind energy characteristics at four monitored locations in Liguria region (Italy). Renewable and Sustainable Energy Reviews, 2010, 14, 1959-1968.	8.2	116
82	Sustainability of a wind power plant: Application to different Moroccan sites. Energy, 2010, 35, 4226-4236.	4.5	40
83	Economic and Risk Implications in the Distribution of Petrol Products to Service Stations under Retailer Managed and Vendor Managed Inventories. International Journal of Sustainable Transportation, 2010, 4, 129-153.	2.1	9
84	Risk Averse Routing of Hazardous Materials with Scheduled Delays. NATO Science for Peace and Security Series C: Environmental Security, 2010, , 23-36.	0.1	13
85	Network planning of fuelling service stations in a near-term competitive scenario of the hydrogen economy. Socio-Economic Planning Sciences, 2009, 43, 55-71.	2.5	26
86	Resource Allocation in Integrated Preoperational and Operational Management of Natural Hazards. Risk Analysis, 2009, 29, 62-75.	1.5	32
87	Planning woody biomass logistics for energy production: A strategic decision model. Biomass and Bioenergy, 2009, 33, 372-383.	2.9	154
88	A decision support system for planning biomass-based energy production. Energy, 2009, 34, 362-369.	4.5	111
89	Multi-objective optimization of solid waste flows: Environmentally sustainable strategies for municipalities. Waste Management, 2008, 28, 2202-2212.	3.7	77
90	A decision support system for resource intervention in real-time emergency management. International Journal of Emergency Management, 2007, 4, 59.	0.2	11

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91	Decision models for sustainable groundwater planning and control. Control Engineering Practice, 2007, 15, 1013-1029.	3.2	25
92	Remote real-time monitoring and control of contamination in underground storage tank systems of petrol products. Journal of Cleaner Production, 2007, 15, 1295-1301.	4.6	10
93	Modeling the vulnerability of complex territorial systems: An application to hydrological risk. Environmental Modelling and Software, 2006, 21, 949-960.	1.9	16
94	GIS tools application for risk assessment of toxic waste buried in seafloor sediments. Chemistry and Ecology, 2006, 22, S145-S161.	0.6	2
95	Analyse de la vulnérabilité d'un système territorial complexe aux aléas naturels. Revue Internationale De Géomatique, 2006, 16, 415-433.	0.2	1
96	An environmentally sustainable decision model for urban solid waste management. Waste Management, 2004, 24, 277-295.	3.7	138
97	Optimizing forest biomass exploitation for energy supply at a regional level. Biomass and Bioenergy, 2004, 26, 15-25.	2.9	177
98	Title is missing!. Information Systems Frontiers, 2003, 5, 195-205.	4.1	11
99	Solid waste management in urban areas. Resources, Conservation and Recycling, 2003, 37, 301-328.	5.3	91
100	A decision support system to detect morphologic changes of chromatin arrangement in normal-appearing cells. IEEE Transactions on Nanobioscience, 2003, 2, 118-123.	2.2	8
101	Hunting for "key residues" in the modeling of globular protein folding: an artificial neural network-based approach. IEEE Transactions on Nanobioscience, 2002, 1, 85-91.	2.2	2
102	Allocating crude oil supply to port and refinery tanks: a simulation-based decision support system. Decision Support Systems, 2002, 33, 39-54.	3.5	19
103	Agent-Based Enhanced Workflow in Manufacturing Information Systems: the MAKE-IT Approach. Journal of Computing and Information Technology, 2002, 10, 303.	0.2	3
104	Home telecare. Journal of Telemedicine and Telecare, 1999, 5, 11-17.	1.4	97
105	Collaborative diagnosis over the Internet: a working experience. IEEE Internet Computing, 1999, 3, 29-37.	3.2	12
106	The EPIC project in Savona: An example of dissemination of an EU-AIM project at Municipal level. Medical Informatics = Medecine Et Informatique, 1997, 22, 143-154.	0.8	2
107	Secondary Structure of Noxiustoxin and Charybdotoxin from Hydropathy Power Spectra. Biochemical and Biophysical Research Communications, 1994, 201, 186-193.	1.0	4
108	Peptides secondary structure prediction with neural networks: a criterion for building appropriate learning sets. IEEE Transactions on Biomedical Engineering, 1993, 40, 1114-1121.	2.5	14