Raffaele Pesenti

List of Publications by Year
in descending order

113	2,056	279487	276539
papers	citations	23 h-index	41 g-index

122	122	122	1527
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimal Control of the Mean Field Equilibrium for a Pedestrian Touristsâ€™ Flow Model. Networks and Spatial Economics, 2022, 22, 243-266.	0.7	9
2	A tutorial on the balanced minimum evolution problem. European Journal of Operational Research, 2022, 300, 1-19.	3.5	4
3	Models and algorithms for an integrated vessel scheduling and tug assignment problem within a canal harbor. European Journal of Operational Research, 2022, 300, 1120-1135.	3.5	3
4	Dynamic Decomposition of the Real-Time Railway Traffic Management Problem. Transportation Research Procedia, 2022, 62, 806-814.	0.8	0
5	Fair and Sparse Solutions in Network-Decentralized Flow Control. , 2022, 6, 2984-2989.		1
6	Fuzzy multi-criteria decision-making: An entropy-based approach to assess tourism sustainability. Tourism Economics, 2021, 27, 168-186.	2.6	25
7	A novel hybrid PSO-based metaheuristic for costly portfolio selection problems. Annals of Operations Research, 2021, 304, 109-137.	2.6	29
8	Polarity and conjugacy for quadratic hypersurfaces: A unified framework with recent advances. Journal of Computational and Applied Mathematics, 2021, 390, 113248.	1.1	0
9	A mathematical programming model to select maintenance strategies in railway networks. Reliability Engineering and System Safety, 2021, 216, 107940.	5.1	8
10	A new fast and accurate heuristic for the Automatic Scene Detection Problem. Computers and Operations Research, 2021, 136, 105495.	2.4	1
11	Origin-to-destination network flow with path preferences and velocity controls: A mean field game-like approach. Journal of Dynamics and Games, 2021, 8, 359.	0.6	3
12	A threshold mechanism ensures minimum-path flow in lightning discharge. Scientific Reports, 2021, 11, 280.	1.6	4
13	A heuristic fuzzy algorithm for assessing and managing tourism sustainability. Soft Computing, 2020, 24, 4027-4040.	2.1	21
14	Robust Sub-optimality of Linear-Saturated Control via Quadratic Zero-Sum Differential Games. Journal of Optimization Theory and Applications, 2020, 184, 1109-1125.	0.8	0
15	An information theory perspective on the balanced minimum evolution problem. Operations Research Letters, 2020, 48, 362-367.	0.5	3
16	On the Balanced Minimum Evolution polytope. Discrete Optimization, 2020, 36, 100570.	0.6	5
17	Scheduling ships movements within a canal harbor. Soft Computing, 2019, 23, 2923-2936.	2.1	6
18	A Fuzzy Evaluation of Tourism Sustainability. , 2019, , 911-932.		6

#	Article	IF	Citations
19	Enumerating vertices of the balanced minimum evolution polytope. Computers and Operations Research, 2019, 109, 209-217.	2.4	5
20	Network-decentralised optimisation and control: An explicit saturated solution. Automatica, 2019, 103, 379-389.	3.0	6
21	A mean field approach to model flows of agents with path preferences over a network. , 2019, , .		2
22	A network-decentralised strategy for shortest-path-flow routing. , 2019, , .		3
23	Efficient train re-routing and rescheduling: Valid inequalities and reformulation of RECIFE-MILP. Transportation Research Part B: Methodological, 2019, 120, 33-48.	2.8	30
24	A PSO-Based Framework for Nonsmooth Portfolio Selection Problems. Smart Innovation, Systems and Technologies, 2019, , 265-275.	0.5	1
25	Integrating Ship Movement Scheduling and Tug Assignment Within a Canal Harbor. AIRO Springer Series, 2019, , 13-22.	0.4	0
26	SOSTA: An effective model for the Simultaneous Optimisation of airport SloT Allocation. Transportation Research, Part E: Logistics and Transportation Review, 2017, 99, 34-53.	3.7	54
27	Conjugate Direction Methods and Polarity for Quadratic Hypersurfaces. Journal of Optimization Theory and Applications, 2017, 175, 764-794.	0.8	3
28	Managing the Ship Movements in the Port of Venice. Networks and Spatial Economics, 2017, 17, 861-887.	0.7	7
29	Opinion Dynamics and Stubbornness Via Multi-Population Mean-Field Games. Journal of Optimization Theory and Applications, 2016, 170, 266-293.	0.8	13
30	Mean-Field Game Modeling the Bandwagon Effect with Activation Costs. Dynamic Games and Applications, 2016, 6, 456-476.	1.1	2
31	Detection of local tourism systems by threshold accepting. Computational Management Science, 2015, 12, 559-575.	0.8	7
32	A branch-price-and-cut algorithm for the minimum evolution problem. European Journal of Operational Research, 2015, 244, 753-765.	3.5	7
33	RECIFE-MILP: An Effective MILP-Based Heuristic for the Real-Time Railway Traffic Management Problem. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 2609-2619.	4.7	55
34	Network, Shared Flow and Multi-level DEA Models: A Critical Review. Profiles in Operations Research, 2014, , 329-376.	0.3	9
35	Opinion dynamics, stubbornness and mean-field games. , 2014, , .		4
36	Automatic generation of railway timetables based on a mesoscopic infrastructure model. Journal of Rail Transport Planning and Management, 2014, 4, 2-13.	0.8	17

#	Article	IF	Citations
37	Mean Field Linear Quadratic Games with Set Up Costs. Dynamic Games and Applications, 2013, 3, 89-104.	1.1	29
38	The linear saturated decentralized strategy for constrained flow control is asymptotically optimal. Automatica, 2013, 49, 2206-2212.	3.0	19
39	Parameter space exploration within dynamic simulations of signaling networks. Mathematical Biosciences and Engineering, 2013, 10, 103-120.	1.0	4
40	The balanced minimum evolution problem under uncertain data. Discrete Applied Mathematics, 2013, 161, 1789-1804.	0.5	2
41	A linear quadratic control problem with mean field dependent fixed costs. , 2013, , .		0
42	Bandwagon effect in mean-field games. , 2013, , .		2
43	The Balanced Minimum Evolution Problem. INFORMS Journal on Computing, 2012, 24, 276-294.	1.0	20
44	Team Theory and Person-by-Person Optimization with Binary Decisions. SIAM Journal on Control and Optimization, 2012, 50, 3011-3028.	1.1	11
45	Airport slot allocation in Europe: economic efficiency and fairness. International Journal of Revenue Management, 2012, 6, 28.	0.2	32
46	Quantized Dissensus in Networks of Agents Subject to Death and Duplication. IEEE Transactions on Automatic Control, 2012, 57, 783-788.	3.6	16
47	Secondary trading of airport slots as a combinatorial exchange. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 1009-1022.	3.7	33
48	Metaheuristic algorithms for the simultaneous slot allocation problem. IET Intelligent Transport Systems, 2012, 6, 453-462.	1.7	23
49	Coloring-based resource allocations in ad-hoc wireless networks. , 2011, , .		1
50	Short-term allocation of Time Windows to flights through a distributed market-based mechanism. Journal of Aerospace Operations, 2011, 1, 29-40.	0.1	3
51	The design of a market mechanism to allocate Air Traffic Flow Management slots. Transportation Research Part C: Emerging Technologies, 2011, 19, 931-943.	3.9	63
52	Dynamic Simulations of Pathways Downstream of ERBB-Family: Exploration of Parameter Space and Effects of Its Variation on Network Behavior. Lecture Notes in Computer Science, 2011, , 229-241.	1.0	0
53	Decentralized Synchronization for Zigbee wireless sensor networks in Multi-Hop Topology. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 257-262.	0.4	2
54	A classification of DEA models when the internal structure of the Decision Making Units is considered. Annals of Operations Research, 2010, 173, 207-235.	2.6	178

#	Article	IF	Citations
55	Average Flow Constraints and Stabilizability inÂUncertain Production-Distribution Systems. Journal of Optimization Theory and Applications, 2010, 144, 12-28.	0.8	5
56	Optimization of Long-Run Average-Flow Cost in Networks With Time-Varying Unknown Demand. IEEE Transactions on Automatic Control, 2010, 55, 20-31.	3.6	20
57	Robust control of uncertain multi-inventory systems via linear matrix inequality. International Journal of Control, 2010, 83, 1727-1740.	1.2	7
58	A decentralized solution for the constrained minimum cost flow. , 2010, , .		3
59	Simulations of the EGFR - KRAS - MAPK Signalling Network in Colon Cancer. Virtual Mutations and Virtual Treatments with Inhibitors Have More Important Effects Than a 10 Times Range of Normal Parameters and Rates Fluctuations. Lecture Notes in Computer Science, 2010, , 151-164.	1.0	2
60	Dissensus, death and division. , 2009, , .		7
61	Mathematical models to reconstruct phylogenetic trees under the minimum evolution criterion. Networks, 2009, 53, 126-140.	1.6	11
62	Distributed consensus in noncooperative inventory games. European Journal of Operational Research, 2009, 192, 866-878.	3.5	16
63	Consensus for Networks with Unknown but Bounded Disturbances. SIAM Journal on Control and Optimization, 2009, 48, 1756-1770.	1.1	73
64	Dealing with Uncertainty in Consensus Protocols. Understanding Complex Systems, 2009, , 43-58.	0.3	1
65	Consensus in Noncooperative Dynamic Games: A Multiretailer Inventory Application. IEEE Transactions on Automatic Control, 2008, 53, 998-1003.	3.6	31
66	Noncooperative dynamic games for inventory applications: A consensus approach. , 2008, , .		0
67	A model for setting and validating sale prices of an electricity trader by means of load shifts. International Journal of Energy Sector Management, 2008, 2, 351-367.	1.2	4
68	Generalized person-by-person optimization in team problems with binary decisions. , 2008, , .		6
69	A novel Bim-BH3-derived Bcl-XL inhibitor: Biochemical characterization, in vitro, in vivo and ex-vivo anti-leukemic activity. Cell Cycle, 2008, 7, 3211-3224.	1.3	32
70	Robust control of uncertain multi-inventory systems via linear matrix inequality. , 2008, , .		2
71	Challenging aspects in Consensus protocols for Networks. , 2008, , .		0
72	Social responsibility and sustainability in motorway corporate governance. International Journal of Environment and Sustainable Development, 2008, 7, 94.	0.2	3

#	Article	IF	Citations
73	Average flow constraints and stabilizability in uncertain production-distribution systems. Proceedings of the American Control Conference, 2007, , .	0.0	1
74	The Image Containment Problem and Some Classes of Polynomial Instances. SIAM Journal on Optimization, 2007, 17, 1189-1204.	1.2	0
75	Lazy consensus for networks with unknown but bounded disturbances. , 2007, , .		13
76	An ant colony optimization algorithm for phylogenetic estimation under the minimum evolution principle. BMC Evolutionary Biology, 2007, 7, 228.	3.2	4
77	A polynomial algorithm solving a special class of hybrid optimal control problems. , 2006, , .		2
78	Robust control strategies for multiâ€“inventory systems with average flow constraints. Automatica, 2006, 42, 1255-1266.	3.0	32
79	Minimizing fleet operating costs for a container transportation company. European Journal of Operational Research, 2006, 171, 776-786.	3.5	53
80	A two-phase insertion technique of unexpected customers for a dynamic dial-a-ride problem. European Journal of Operational Research, 2006, 175, 1605-1615.	3.5	108
81	Non-linear protocols for optimal distributed consensus in networks of dynamic agents. Systems and Control Letters, 2006, 55, 918-928.	1.3	209
82	A non-linear optimization procedure to estimate distances and instantaneous substitution rate matrices under the GTR model. Bioinformatics, 2006, 22, 708-715.	1.8	17
83	A Polynomial Algorithm solving a Special Class of Hybrid Optimal Control Problems. , 2006, , .		0
84	Multiple-attribute decision support system based on fuzzy logic for performance assessment. European Journal of Operational Research, 2005, 160, 710-725.	3.5	18
85	DEA-like models for the efficiency evaluation of hierarchically structured units. European Journal of Operational Research, 2004, 154, 465-476.	3.5	126
86	An exact algorithm for the min-cost network containment problem. Networks, 2004, 43, 87-102.	1.6	5
87	Scheduling multimodal transportation systems. European Journal of Operational Research, 2004, 155, 603-615.	3.5	52
88	Multiple UAV cooperative path planning via neuro-dynamic programming. , 2004, , .		23
89	Two-Player Noncooperative Games over a Freight Transportation Network. Transportation Science, 2004, 38, 149-159.	2.6	23
90	Economic lot scheduling on multiple production lines with resource constraints. International Journal of Production Economics, 2003, 81-82, 469-481.	5.1	16

#	Article	IF	Citations
91	Stabilization of multi-inventory systems with uncertain demand and setups. IEEE Transactions on Automation Science and Engineering, 2003, 19, 103-116.	2.4	7
92	Min-max control of uncertain multi-inventory systems with multiplicative uncertainties. IEEE Transactions on Automatic Control, 2001, 45, 955-960.	3.6	14
93	Robust control of production-distribution systems. , 2001, , 13-28.		6
94	DEA-like models for efficiency evaluations of specialized and interdependent units. European Journal of Operational Research, 2001, 132, 274-286.	3.5	41
95	Discrete frequency models for inventory management â€“ an introduction. International Journal of Production Economics, 2001, 71, 331-342.	5.1	3
96	Two Job Cyclic Scheduling With Incompatibility Constraints. International Transactions in Operational Research, 2001, 8, 167-181.	1.8	2
97	A comparison of different solution approaches to the vehicle scheduling problem in a practical case. Computers and Operations Research, 2000, 27, 1249-1269.	2.4	50
98	Feedback control of production-distribution systems with unknown demand and delays. IEEE Transactions on Automation Science and Engineering, 2000, 16, 313-317.	2.4	35
99	A hierarchic approach to production planning and scheduling of a flexible manufacturing system. Robotics and Computer-Integrated Manufacturing, 1999, 15, 373-385.	6.1	15
100	Dynamic routing-and-inventory problems: a review. Transportation Research, Part A: Policy and Practice, 1998, 32, 585-598.	2.0	45
101	A computerized connectivity approach for analyzing the structural basis of mutagenicity in Salmonella and its relationship with rodent carcinogenicity. , 1996, 28, 31-50.		14
102	Hierarchical resource planning for shipping companies. European Journal of Operational Research, 1995, 86, 91-102.	3.5	28
103	Molecular fragments associated with non-genotoxic carcinogens, as detected using a software program based on graph theory: their usefulness to predict carcinogenicity. Chemico-Biological Interactions, 1995, 97, 75-100.	1.7	11
104	Optimal routing of customers with general independent interarrival times in deterministic parallel queues. IEEE Transactions on Automatic Control, 1995, 40, 1630-1635.	3.6	0
105	Assessing a new utility/cost function for multiattribute decision making. Operations Research Letters, 1992, 12, 331-336.	0.5	1
106	Modelling and simulating for optimal management of underground railway systems. , 0, , .		1
107	A new cost function to solve multi-attribute decision making problems with nonseparable attributes. , 0, , .		0
108	A decision support system for the prediction of carcinogenic activity of organic chemical compounds. , 0, , .		0

#	Article	IF	Citations
109	A hybrid system for short-term scheduling in manufacturing: a case study. , 0, , .		2
110	Generating optimal schedules for an underground railway line. , 0, , .		9
111	Feedback control of production-distribution systems with unknown demand and delays. , 0, , .		1
112	Distributed consensus protocols for coordinating buyers. , 0, , .		11
113	Distributed Consensus in Networks of Dynamic Agents. , 0, , .		14