# Raffaele Pesenti

List of Publications by Year
in descending order

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|---|---|---|---|
| 113 papers | 2,056 citations | 279487<br>23 h-index | 276539<br>41 g-index |
| 122 all docs | 122 docs citations | 122 times ranked | 1527 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 1 | Non-linear protocols for optimal distributed consensus in networks of dynamic agents. Systems and Control Letters, 2006, 55, 918-928. | 1.3 | 209 |
| 2 | 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 |
| 3 | DEA-like models for the efficiency evaluation of hierarchically structured units. European Journal of Operational Research, 2004, 154, 465-476. | 3.5 | 126 |
| 4 | 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 |
| 5 | Consensus for Networks with Unknown but Bounded Disturbances. SIAM Journal on Control and Optimization, 2009, 48, 1756-1770. | 1.1 | 73 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | Minimizing fleet operating costs for a container transportation company. European Journal of Operational Research, 2006, 171, 776-786. | 3.5 | 53 |
| 10 | Scheduling multimodal transportation systems. European Journal of Operational Research, 2004, 155, 603-615. | 3.5 | 52 |
| 11 | 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 |
| 12 | Dynamic routing-and-inventory problems: a review. Transportation Research, Part A: Policy and Practice, 1998, 32, 585-598. | 2.0 | 45 |
| 13 | DEA-like models for efficiency evaluations of specialized and interdependent units. European Journal of Operational Research, 2001, 132, 274-286. | 3.5 | 41 |
| 14 | 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 |
| 15 | Secondary trading of airport slots as a combinatorial exchange. Transportation Research, Part E: Logistics and Transportation Review, 2012, 48, 1009-1022. | 3.7 | 33 |
| 16 | Robust control strategies for multiâ€"inventory systems with average flow constraints. Automatica, 2006, 42, 1255-1266. | 3.0 | 32 |
| 17 | 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 |
| 18 | Airport slot allocation in Europe: economic efficiency and fairness. International Journal of Revenue Management, 2012, 6, 28. | 0.2 | 32 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------| 
| 19 | Consensus in Noncooperative Dynamic Games: A Multiretailer Inventory Application. IEEE Transactions on Automatic Control, 2008, 53, 998-1003. | 3.6 | 31 |
| 20 | 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 |
| 21 | Mean Field Linear Quadratic Games with Set Up Costs. Dynamic Games and Applications, 2013, 3, 89-104. | 1.1 | 29 |
| 22 | A novel hybrid PSO-based metaheuristic for costly portfolio selection problems. Annals of Operations Research, 2021, 304, 109-137. | 2.6 | 29 |
| 23 | Hierarchical resource planning for shipping companies. European Journal of Operational Research, 1995, 86, 91-102. | 3.5 | 28 |
| 24 | Fuzzy multi-criteria decision-making: An entropy-based approach to assess tourism sustainability. Tourism Economics, 2021, 27, 168-186. | 2.6 | 25 |
| 25 | Multiple UAV cooperative path planning via neuro-dynamic programming. , 2004, , . | | 23 |
| 26 | Two-Player Noncooperative Games over a Freight Transportation Network. Transportation Science, 2004, 38, 149-159. | 2.6 | 23 |
| 27 | Metaheuristic algorithms for the simultaneous slot allocation problem. IET Intelligent Transport Systems, 2012, 6, 453-462. | 1.7 | 23 |
| 28 | A heuristic fuzzy algorithm for assessing and managing tourism sustainability. Soft Computing, 2020, 24, 4027-4040. | 2.1 | 21 |
| 29 | 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 |
| 30 | The Balanced Minimum Evolution Problem. INFORMS Journal on Computing, 2012, 24, 276-294. | 1.0 | 20 |
| 31 | The linear saturated decentralized strategy for constrained flow control is asymptotically optimal. Automatica, 2013, 49, 2206-2212. | 3.0 | 19 |
| 32 | Multiple-attribute decision support system based on fuzzy logic for performance assessment. European Journal of Operational Research, 2005, 160, 710-725. | 3.5 | 18 |
| 33 | 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 |
| 34 | 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 |
| 35 | Economic lot scheduling on multiple production lines with resource constraints. International Journal of Production Economics, 2003, 81-82, 469-481. | 5.1 | 16 |
| 36 | Distributed consensus in noncooperative inventory games. European Journal of Operational Research, 2009, 192, 866-878. | 3.5 | 16 |

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| 37 | Quantized Dissensus in Networks of Agents Subject to Death and Duplication. IEEE Transactions on Automatic Control, 2012, 57, 783-788. | 3.6 | 16 |
| 38 | 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 |
| 39 | A computerized connectivity approach for analyzing the structural basis of mutagenicity in Salmonella and its relationship with rodent carcinogenicity. , 1996, 28, 31-50. | | 14 |
| 40 | Min-max control of uncertain multi-inventory systems with multiplicative uncertainties. IEEE Transactions on Automatic Control, 2001, 45, 955-960. | 3.6 | 14 |
| 41 | Distributed Consensus in Networks of Dynamic Agents. , 0, , . | | 14 |
| 42 | Lazy consensus for networks with unknown but bounded disturbances. , 2007, , . | | 13 |
| 43 | Opinion Dynamics and Stubbornness Via Multi-Population Mean-Field Games. Journal of Optimization Theory and Applications, 2016, 170, 266-293. | 0.8 | 13 |
| 44 | 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 |
| 45 | Distributed consensus protocols for coordinating buyers. , 0, , . | | 11 |
| 46 | Mathematical models to reconstruct phylogenetic trees under the minimum evolution criterion. Networks, 2009, 53, 126-140. | 1.6 | 11 |
| 47 | Team Theory and Person-by-Person Optimization with Binary Decisions. SIAM Journal on Control and Optimization, 2012, 50, 3011-3028. | 1.1 | 11 |
| 48 | Generating optimal schedules for an underground railway line. , 0, , . | | 9 |
| 49 | Network, Shared Flow and Multi-level DEA Models: A Critical Review. Profiles in Operations Research, 2014, , 329-376. | 0.3 | 9 |
| 50 | Optimal Control of the Mean Field Equilibrium for a Pedestrian Tourists' Flow Model. Networks and Spatial Economics, 2022, 22, 243-266. | 0.7 | 9 |
| 51 | A mathematical programming model to select maintenance strategies in railway networks. Reliability Engineering and System Safety, 2021, 216, 107940. | 5.1 | 8 |
| 52 | Stabilization of multi-inventory systems with uncertain demand and setups. IEEE Transactions on Automation Science and Engineering, 2003, 19, 103-116. | 2.4 | 7 |
| 53 | Dissensus, death and division. , 2009, , . | | 7 |
| 54 | Robust control of uncertain multi-inventory systems via linear matrix inequality. International Journal of Control, 2010, 83, 1727-1740. | 1.2 | 7 |

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| 55 | Detection of local tourism systems by threshold accepting. Computational Management Science, 2015, 12, 559-575. | 0.8 | 7 |
| 56 | A branch-price-and-cut algorithm for the minimum evolution problem. European Journal of Operational Research, 2015, 244, 753-765. | 3.5 | 7 |
| 57 | Managing the Ship Movements in the Port of Venice. Networks and Spatial Economics, 2017, 17, 861-887. | 0.7 | 7 |
| 58 | Robust control of production-distribution systems. , 2001, , 13-28. | | 6 |
| 59 | Generalized person-by-person optimization in team problems with binary decisions. , 2008, , . | | 6 |
| 60 | Scheduling ships movements within a canal harbor. Soft Computing, 2019, 23, 2923-2936. | 2.1 | 6 |
| 61 | A Fuzzy Evaluation of Tourism Sustainability. , 2019, , 911-932. | | 6 |
| 62 | Network-decentralised optimisation and control: An explicit saturated solution. Automatica, 2019, 103, 379-389. | 3.0 | 6 |
| 63 | An exact algorithm for the min-cost network containment problem. Networks, 2004, 43, 87-102. | 1.6 | 5 |
| 64 | Average Flow Constraints and Stabilizability inÂUncertain Production-Distribution Systems. Journal of Optimization Theory and Applications, 2010, 144, 12-28. | 0.8 | 5 |
| 65 | Enumerating vertices of the balanced minimum evolution polytope. Computers and Operations Research, 2019, 109, 209-217. | 2.4 | 5 |
| 66 | On the Balanced Minimum Evolution polytope. Discrete Optimization, 2020, 36, 100570. | 0.6 | 5 |
| 67 | An ant colony optimization algorithm for phylogenetic estimation under the minimum evolution principle. BMC Evolutionary Biology, 2007, 7, 228. | 3.2 | 4 |
| 68 | 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 |
| 69 | Parameter space exploration within dynamic simulations of signaling networks. Mathematical Biosciences and Engineering, 2013, 10, 103-120. | 1.0 | 4 |
| 70 | Opinion dynamics, stubbornness and mean-field games. , 2014, , . | | 4 |
| 71 | A tutorial on the balanced minimum evolution problem. European Journal of Operational Research, 2022, 300, 1-19. | 3.5 | 4 |
| 72 | A threshold mechanism ensures minimum-path flow in lightning discharge. Scientific Reports, 2021, 11, 280. | 1.6 | 4 |

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| 73 | Discrete frequency models for inventory management â€" an introduction. International Journal of Production Economics, 2001, 71, 331-342. | 5.1 | 3 |
| 74 | Social responsibility and sustainability in motorway corporate governance. International Journal of Environment and Sustainable Development, 2008, 7, 94. | 0.2 | 3 |
| 75 | A decentralized solution for the constrained minimum cost flow. , 2010, , . | | 3 |
| 76 | 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 |
| 77 | Conjugate Direction Methods and Polarity for Quadratic Hypersurfaces. Journal of Optimization Theory and Applications, 2017, 175, 764-794. | 0.8 | 3 |
| 78 | A network-decentralised strategy for shortest-path-flow routing. , 2019, , . | | 3 |
| 79 | An information theory perspective on the balanced minimum evolution problem. Operations Research Letters, 2020, 48, 362-367. | 0.5 | 3 |
| 80 | 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 |
| 81 | 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 |
| 82 | A hybrid system for short-term scheduling in manufacturing: a case study. , 0, , . | | 2 |
| 83 | Two Job Cyclic Scheduling With Incompatibility Constraints. International Transactions in Operational Research, 2001, 8, 167-181. | 1.8 | 2 |
| 84 | A polynomial algorithm solving a special class of hybrid optimal control problems. , 2006, , . | | 2 |
| 85 | Robust control of uncertain multi-inventory systems via linear matrix inequality. , 2008, , . | | 2 |
| 86 | 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 |
| 87 | The balanced minimum evolution problem under uncertain data. Discrete Applied Mathematics, 2013, 161, 1789-1804. | 0.5 | 2 |
| 88 | Bandwagon effect in mean-field games. , 2013, , . | | 2 |
| 89 | Mean-Field Game Modeling the Bandwagon Effect with Activation Costs. Dynamic Games and Applications, 2016, 6, 456-476. | 1.1 | 2 |
| 90 | A mean field approach to model flows of agents with path preferences over a network. , 2019, , . | | 2 |

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| 91 | 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 |
| 92 | Modelling and simulating for optimal management of underground railway systems. , 0, , . | | 1 |
| 93 | Assessing a new utility/cost function for multiattribute decision making. Operations Research Letters, 1992, 12, 331-336. | 0.5 | 1 |
| 94 | Feedback control of production-distribution systems with unknown demand and delays. , 0, , . | | 1 |
| 95 | Average flow constraints and stabilizability in uncertain production-distribution systems. Proceedings of the American Control Conference, 2007, , . | 0.0 | 1 |
| 96 | Coloring-based resource allocations in ad-hoc wireless networks. , 2011, , . | | 1 |
| 97 | A new fast and accurate heuristic for the Automatic Scene Detection Problem. Computers and Operations Research, 2021, 136, 105495. | 2.4 | 1 |
| 98 | A PSO-Based Framework for Nonsmooth Portfolio Selection Problems. Smart Innovation, Systems and Technologies, 2019, , 265-275. | 0.5 | 1 |
| 99 | Dealing with Uncertainty in Consensus Protocols. Understanding Complex Systems, 2009, , 43-58. | 0.3 | 1 |
| 100 | Fair and Sparse Solutions in Network-Decentralized Flow Control. , 2022, 6, 2984-2989. | | 1 |
| 101 | A new cost function to solve multi-attribute decision making problems with nonseparable attributes. , 0, , . | | 0 |
| 102 | A decision support system for the prediction of carcinogenic activity of organic chemical compounds. , 0, , . | | 0 |
| 103 | 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 |
| 104 | The Image Containment Problem and Some Classes of Polynomial Instances. SIAM Journal on Optimization, 2007, 17, 1189-1204. | 1.2 | 0 |
| 105 | Noncooperative dynamic games for inventory applications: A consensus approach. , 2008, , . | | 0 |
| 106 | Challenging aspects in Consensus protocols for Networks. , 2008, , . | | 0 |
| 107 | A linear quadratic control problem with mean field dependent fixed costs. , 2013, , . | | 0 |
| 108 | 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 |

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| 109 | Polarity and conjugacy for quadratic hypersurfaces: A unified framework with recent advances. Journal of Computational and Applied Mathematics, 2021, 390, 113248. | 1.1 | 0 |
| 110 | A Polynomial Algorithm solving a Special Class of Hybrid Optimal Control Problems. , 2006, , . | | 0 |
| 111 | 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 |
| 112 | Integrating Ship Movement Scheduling and Tug Assignment Within a Canal Harbor. AIRO Springer Series, 2019, , 13-22. | 0.4 | 0 |
| 113 | Dynamic Decomposition of the Real-Time Railway Traffic Management Problem. Transportation Research Procedia, 2022, 62, 806-814. | 0.8 | 0 |