Ettore Lanzarone

List of Publications by Year
in descending order

81 papers	1,155 citations	471371 17 h-index	454834 30 g-index
85 all docs	85 docs citations	85 times ranked	1025 citing authors

#	Article	IF	Citations
1	A cardinality-constrained robust model for the assignment problem in Home Care services. European Journal of Operational Research, 2014, 236, 748-762.	3.5	106
2	Defect Detection in SEM Images of Nanofibrous Materials. IEEE Transactions on Industrial Informatics, 2017, 13, 551-561.	7.2	90
3	Robust nurse-to-patient assignment in home care services to minimize overtimes under continuity of care. Operations Research for Health Care, 2014, 3, 48-58.	0.8	89
4	Operations Management Applied to Home Care Services: The Problem of Assigning Human Resources to Patients. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 1346-1363.	3.4	80
5	A patient stochastic model to support human resource planning in home care. Production Planning and Control, 2010, 21, 3-25.	5.8	57
6	A cost assignment policy for home care patients. Flexible Services and Manufacturing Journal, 2012, 24, 465-495.	1.9	53
7	Model of arterial tree and peripheral control for the study of physiological and assisted circulation. Medical Engineering and Physics, 2007, 29, 542-555.	0.8	37
8	A recursive simulation-optimization framework for the ambulance location and dispatching problem. European Journal of Operational Research, 2020, 286, 713-725.	3.5	37
9	Preservation of Endothelium Nitric Oxide Release by Pulsatile Flow Cardiopulmonary Bypass When Compared With Continuous Flow. Artificial Organs, 2009, 33, 926-934.	1.0	35
10	Handling uncertainty in health care management using the cardinality-constrained approach: Advantages and remarks. Operations Research for Health Care, 2015, 4, 1-4.	0.8	31
11	Trade-off between stakeholders' goals in the home care nurse-to-patient assignment problem. Operations Research for Health Care, 2018, 16, 29-40.	0.8	31
12	A New Pulsatile Volumetric Device With Biomorphic Valves for the In Vitro Study of the Cardiovascular System. Artificial Organs, 2009, 33, 1048-1062.	1.0	30
13	Stent-Graft Deployment Increases Aortic Stiffness in an Ex Vivo Porcine Model. Annals of Vascular Surgery, 2017, 43, 302-308.	0.4	28
14	An appointment scheduling framework to balance the production of blood units from donation. European Journal of Operational Research, 2018, 265, 1124-1143.	3.5	26
15	Changes in aortic pulse wave velocity of four thoracic aortic stent grafts in an ex vivo porcine model. PLoS ONE, 2017, 12, e0186080.	1.1	26
16	A Bayesian framework for describing and predicting the stochastic demand of home care patients. Flexible Services and Manufacturing Journal, 2016, 28, 254-279.	1.9	19
17	A compliant aortic model for in vitro simulations: Design and manufacturing process. Medical Engineering and Physics, 2018, 59, 21-29.	0.8	19
18	Unaddressed problems and research perspectives in scheduling blood collection from donors. Production Planning and Control, 2018, 29, 84-90.	5.8	17

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19	A Clinically Applicable Stochastic Approach for Noninvasive Estimation of Aortic Stiffness Using Computed Tomography Data. IEEE Transactions on Biomedical Engineering, 2015, 62, 176-187.	2.5	16
20	A Bayesian estimation approach for the mortality in a stage-structured demographic model. Journal of Mathematical Biology, 2017, 75, 759-779.	0.8	15
21	Integrated Model of Endothelial NO Regulation and Systemic Circulation for the Comparison Between Pulsatile and Continuous Perfusion. IEEE Transactions on Biomedical Engineering, 2009, 56, 1331-1340.	2.5	14
22	Defect minimization and feature control in electrospinning through design of experiments. Journal of Applied Polymer Science, 2017, 134, .	1.3	13
23	Preservation of endothelium nitric oxide release during beating heart surgery with respect to continuous flow cardiopulmonary bypass. Perfusion (United Kingdom), 2010, 25, 57-64.	0.5	12
24	A Matheuristic Approach for the Home Care Scheduling Problem With Chargeable Overtime and Preference Matching. IEEE Transactions on Automation Science and Engineering, 2021, 18, 282-298.	3.4	12
25	A comminution model with homogeneity and multiplication assumptions for the Waste Electrical and Electronic Equipment recycling industry. Journal of Cleaner Production, 2019, 211, 665-678.	4.6	11
26	Inertance Estimation in a Lumped-Parameter Hydraulic Simulator of Human Circulation. Journal of Biomechanical Engineering, 2013, 135, 61012-17.	0.6	10
27	Bayesian Estimation of Thermal Conductivity and Temperature Profile in a Homogeneous Mass. Numerical Heat Transfer, Part B: Fundamentals, 2014, 66, 397-421.	0.6	10
28	Management of Blood Donation System: Literature Review and Research Perspectives. Springer Proceedings in Mathematics and Statistics, 2016, , 121-132.	0.1	10
29	A novel bayesian approach with conditional autoregressive specification for intravoxel incoherent motion diffusion€weighted MRI. NMR in Biomedicine, 2020, 33, e4201.	1.6	10
30	Home care vehicle routing problem with chargeable overtime and strict and soft preference matching. Health Care Management Science, 2021, 24, 140-159.	1.5	10
31	Energy-Efficient Control Policy for Parallel and Identical Machines With Availability Constraint. IEEE Robotics and Automation Letters, 2021, 6, 5713-5719.	3.3	10
32	Applying functional principal components to structural topology optimization. International Journal for Numerical Methods in Engineering, 2018, 115, 189-208.	1.5	9
33	A stochastic risk-averse framework for blood donation appointment scheduling under uncertain donor arrivals. Health Care Management Science, 2020, 23, 535-555.	1.5	9
34	A First Route Second Assign decomposition to enforce continuity of care in home health care. Expert Systems With Applications, 2022, 193, 116442.	4.4	9
35	Simulation study of autoregulation responses of peripheral circulation to systemic pulsatility. Nonlinear Biomedical Physics, 2009, 3, 7.	1.5	8
36	A Novel Insight into the Role of Entry Tears in Type B Aortic Dissection: Pressure Measurements in an in Vitro Model. International Journal of Artificial Organs, 2017, 40, 563-574.	0.7	8

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37	A discrete‐event simulation model for analysing and improving operations in a blood donation centre. Vox Sanguinis, 2021, 116, 1060-1075.	0.7	8
38	The nurse-to-patient assignment problem in Home Care services. Profiles in Operations Research, 2012, , 121-139.	0.3	8
39	A Rao-Blackwellized particle filter for joint parameter estimation and biomass tracking in a stochastic predator-prey system. Mathematical Biosciences and Engineering, 2014, 11, 573-597.	1.0	8
40	Efficient uncertainty quantification in stochastic finite element analysis based on functional principal components. Computational Mechanics, 2015, 56, 533-549.	2.2	7
41	A Bayesian approach for the identification of patient-specific parameters in a dialysis kinetic model. Statistical Methods in Medical Research, 2019, 28, 2069-2095.	0.7	7
42	Determination of Cardiovascular Mechanics Evolution in the Presence of the Arteriovenous Fistula. ASAIO Journal, 2009, 55, 484-493.	0.9	6
43	A Regression Method Based on Noninvasive Clinical Data to Predict the Mechanical Behavior of Ascending Aorta Aneurysmal Tissue. IEEE Transactions on Biomedical Engineering, 2017, 64, 2607-2617.	2.5	6
44	An optimization tool to dimension innovative home health care services with devices and disposable materials. Flexible Services and Manufacturing Journal, 2020, 32, 561-598.	1.9	6
45	A Particle-Filtering Approach for Real-Time Estimation of Thermal Conductivity and Temperature Tracking in Homogeneous Masses. Numerical Heat Transfer, Part B: Fundamentals, 2015, 67, 507-530.	0.6	5
46	A multi-user tool for enhancing the daily replanning and control of visits in home care services. Production Planning and Control, 2017, 28, 202-219.	5.8	5
47	Energy-Efficient Control of Parallel and Identical Machines: Impact on the Overall Production System. Procedia CIRP, 2022, 105, 739-744.	1.0	5
48	Response to the Letter to the Editor: A New Pulsatile Volumetric Device With Biomorphic Valves for the In Vitro Study of the Cardiovascular System by M.B. Munir et ƒ al.. Artificial Organs, 2011, 35, 97-98.	1.0	4
49	Bayesian joint modelling of the health profile and demand of home care patients. IMA Journal of Management Mathematics, 0, , dpw001.	1.1	4
50	A Cardinality-constrained Approach for Robust Machine Loading Problems. Procedia Manufacturing, 2017, 11, 1718-1725.	1.9	4
51	A Data-Driven Districting to Improve Emergency Medical Service Systems. IFAC-PapersOnLine, 2018, 51, 998-1003.	0.5	4
52	Hospital Factory for Manufacturing Customised, Patient-Specific 3D Anatomo-Functional Models and Prostheses. , 2019, , 233-254.		4
53	Bayesian spatio-temporal modelling and prediction of areal demands for ambulance services. IMA Journal of Management Mathematics, 2022, 33, 101-121.	1.1	4
54	Uncertainty in the Blood Donation Appointment Scheduling: Key Factors and Research Perspectives. Springer Proceedings in Mathematics and Statistics, 2020, , 293-304.	0.1	4

#	ARTICLE	IF	CITATIONS
55	A simple policy for the nurse-patient assignment in Home Care services. , 2010, , .		3
56	Assigning probabilities to qualitative dynamics of gene regulatory networks. Journal of Mathematical Biology, 2014, 69, 1661-1692.	0.8	3
57	A Discrete Event Simulation Model for the Admission of Patients to a Home Care Rehabilitation Service. Springer Proceedings in Mathematics and Statistics, 2016, , 91-100.	0.1	3
58	A Variable Neighborhood Search for Home Care Scheduling Under Chargeable Overtime and Preference Matching*. , 2019, , .		3
59	Monitoring Systems of an Electrospinning Plant for the Production of Composite Nanofibers. , 2019, , 315-337.		3
60	A gradient-based optimization method with functional principal component analysis for efficient structural topology optimization. Structural and Multidisciplinary Optimization, 2021, 64, 177-188.	1.7	3
61	An implementor-adversary approach for uncertain and time-correlated service times in the nurse-to-patient assignment problem. Computers and Operations Research, 2021, 135, 105378.	2.4	3
62	A Bayesian Model for Describing and Predicting the Stochastic Demand of Emergency Calls. Springer Proceedings in Mathematics and Statistics, 2017, , 203-212.	0.1	3
63	Automatic cyst and kidney segmentation in autosomal dominant polycystic kidney disease: Comparison of U-Net based methods. Computers in Biology and Medicine, 2022, 146, 105431.	3.9	3
64	Collaboration enhancement through tangible metaphors: Application to home care rescheduling. , 2013, , .		2
65	A New Decomposition Approach for the Home Health Care Problem. Springer Proceedings in Mathematics and Statistics, 2017, , 27-36.	0.1	2
66	A Fix-and-Optimize Variable Neighborhood Search for the Biomedical Sample Transportation Problem. IFAC-PapersOnLine, 2018, 51, 992-997.	0.5	2
67	Prediction model of isolated iliac and abdominal aneurysms. European Journal of Clinical Investigation, 2021, 51, e13517.	1.7	2
68	Merging short-term and long-term planning problems in home health care under continuity of care and patterns for visits. Journal of Industrial and Management Optimization, 2021, .	0.8	2
69	A Clustering Approach to Improve IntraVoxel Incoherent Motion Maps from DW-MRI Using Conditional Auto-Regressive Bayesian Model. Applied Sciences (Switzerland), 2022, 12, 1907.	1.3	2
70	Temporary Reperfusion of the Aneurysm Sac as a Prevention of Spinal Cord Ischemia After Endovascular Treatment of Thoracoabdominal Aortic Aneurysm: Systematic Review and Meta-analysis. Journal of Endovascular Therapy, 2023, 30, 323-335.	0.8	2
71	Qualitative assessment of a collaborative multi-user tool for enhancing the daily replanning and control of visits in Home Care services. , 2014, , .		1
72	A Cardinality-Constrained Robust Approach for the Ambulance Location and Dispatching Problem. Springer Proceedings in Mathematics and Statistics, 2017, , 99-109.	0.1	1

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73	A Model-Based Tool for the Analysis and Design of Gene Regulatory Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 1301-1314.	1.9	1
74	A Conditional Autoregressive Model for Estimating Slow and Fast Diffusion from Magnetic Resonance Images. Springer Proceedings in Mathematics and Statistics, 2019, , 135-144.	0.1	1
75	Bayesian Estimation of the Aortic Stiffness based on Non-invasive Computed Tomography Images. Springer Proceedings in Mathematics and Statistics, 2015, , 133-142.	0.1	0
76	Bayesian Filtering for Thermal Conductivity Estimation Given Temperature Observations. Springer Proceedings in Mathematics and Statistics, 2015, , 143-151.	0.1	0
77	Complexity reduction of Model Predictive Control for a de-manufacturing plant. IFAC-PapersOnLine, 2018, 51, 296-301.	0.5	0
78	A robust cardinality-constrained model to address the machine loading problem. Robotics and Computer-Integrated Manufacturing, 2020, 62, 101883.	6.1	0
79	Optimal robust search for parameter values of qualitative models of gene regulatory networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, PP, 1-1.	1.9	0
80	Bayesian identification of energy models for industrial machinery controlled rotary axes. Journal of Cleaner Production, 2021, 316, 128187.	4.6	0
81	A patient-specific image-based approach to estimate pulmonary artery stiffness based on vessel constitutive model. Medical Engineering and Physics, 2022, , 103851.	0.8	0