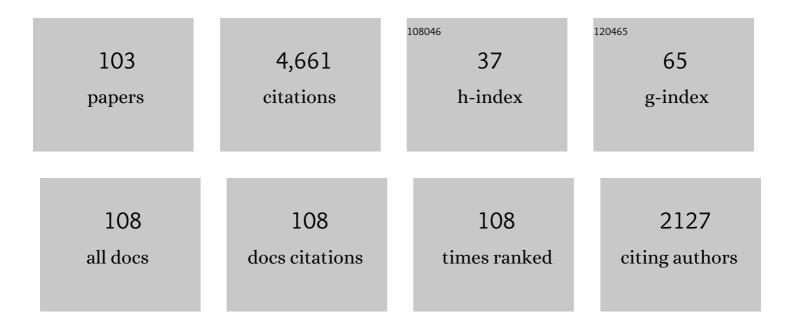
Sunderesh Heragu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/873164/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The EMS vehicle patient transportation problem during a demand surge. Journal of Global Optimization, 2021, 79, 989-1006. | 1.1 | 7 |
| 2 | Lessons from Modeling and Running the World's Largest Drive-Through Mass Vaccination Clinic. Interfaces, 2021, 51, 91-105. | 1.6 | 9 |
| 3 | Digital Twin of COVID-19 Mass Vaccination Centers. Sustainability, 2021, 13, 7396. | 1.6 | 22 |
| 4 | Outbound Logistics and Distribution Management. Lecture Notes in Logistics, 2019, , 305-330. | 0.6 | 0 |
| 5 | Design for manufacturing and assembly/disassembly: joint design of products and production systems. International Journal of Production Research, 2018, 56, 7181-7189. | 4.9 | 48 |
| 6 | A simulation-based optimization approach for mitigation of pandemic influenza. IISE Transactions on Healthcare Systems Engineering, 2017, 7, 107-120. | 1.2 | 6 |
| 7 | A multi-tier linking approach to analyze performance of autonomous vehicle-based storage and retrieval systems. Computers and Operations Research, 2017, 83, 173-188. | 2.4 | 29 |
| 8 | Modelling and solution of a large-scale vehicle routing problem at GE appliances & lighting. International Journal of Production Research, 2017, 55, 1100-1116. | 4.9 | 11 |
| 9 | A simulation framework for studying blocking effects in warehouse systems with autonomous vehicles. European Journal of Industrial Engineering, 2016, 10, 51. | 0.5 | 15 |
| 10 | CONWIP: closed or semi-open queuing network?. International Journal of Operational Research, 2015, 24, 356. | 0.1 | 4 |
| 11 | Stochastic models for unit-load operations in warehouse systems with autonomous vehicles. Annals of Operations Research, 2015, 231, 129-155. | 2.6 | 40 |
| 12 | Queuing models to analyze dwell-point and cross-aisle location in autonomous vehicle-based warehouse systems. European Journal of Operational Research, 2015, 242, 72-87. | 3.5 | 71 |
| 13 | Designing a large-scale emergency logistics network - a case study for Kentucky. European Journal of Industrial Engineering, 2014, 8, 513. | 0.5 | 15 |
| 14 | Modeling and evaluating the AVS/RS with tier-to-tier vehicles using a semi-open queueing network. IIE Transactions, 2014, 46, 905-927. | 2.1 | 50 |
| 15 | Matrix-geometric solution for semi-open queuing network model of autonomous vehicle storage and retrieval system. Computers and Industrial Engineering, 2014, 68, 78-86. | 3.4 | 83 |
| 16 | Blocking Effects in Warehouse Systems With Autonomous Vehicles. IEEE Transactions on Automation Science and Engineering, 2014, 11, 439-451. | 3.4 | 46 |
| 17 | Simulation Optimization and a Case Study. , 2014, , 2159-2170. | | 0 |
| 18 | Simulation and optimization modeling for drive-through mass vaccination – A generalized approach. Simulation Modelling Practice and Theory, 2013, 37, 99-106. | 2.2 | 38 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | An Approximate Solution for Semi-Open Queueing Network Model of an Autonomous Vehicle Storage and Retrieval System. IEEE Transactions on Automation Science and Engineering, 2013, 10, 205-215. | 3.4 | 63 |
| 20 | Optimization of production and inventory policies for dishwasher wire rack production through simulation. , 2013, , . | | 1 |
| 21 | The application of linear programming by the General Electric Company to efficiently allocate routes to trucking companies. European Journal of Industrial Engineering, 2013, 7, 38. | 0.5 | 2 |
| 22 | Modeling Automated Warehouses Using Semi-Open Queueing Networks. Profiles in Operations Research, 2013, , 29-71. | 0.3 | 3 |
| 23 | Comparing dynamic risk-based scheduling methods with MRP via simulation. International Journal of Production Research, 2012, 50, 921-937. | 4.9 | 7 |
| 24 | Performance comparison of two material handling systems: AVS/RS and CBAS/RS. International Journal of Production Research, 2012, 50, 4061-4074. | 4.9 | 39 |
| 25 | Performance analysis and design trade-offs in warehouses with autonomous vehicle technology. IIE Transactions, 2012, 44, 1045-1060. | 2.1 | 110 |
| 26 | An optimization approach for dispatching and relocating EMS vehicles. IIE Transactions on Healthcare Systems Engineering, 2012, 2, 211-223. | 0.8 | 16 |
| 27 | A New Technology For Unit-Load Automated Storage System: Autonomous Vehicle Storage and Retrieval System. , 2012, , 285-339. | | 7 |
| 28 | Using UICDS to Share Data in the Real-Time Decision Support System for Pandemic Response. , 2011, , . | | 1 |
| 29 | Simulation of mitigation strategies for a pandemic influenza. , 2011, , . | | 3 |
| 30 | Analytical models for analysis of automated warehouse material handling systems. International Journal of Production Research, 2011, 49, 6833-6861. | 4.9 | 102 |
| 31 | Simulation based performance analysis of an autonomous vehicle storage and retrieval system. Simulation Modelling Practice and Theory, 2011, 19, 1640-1650. | 2.2 | 45 |
| 32 | iResTrac. , 2011, , . | | 1 |
| 33 | Performance modelling of autonomous vehicle storage and retrieval systems with generally distributed service times. European Journal of Industrial Engineering, 2011, 5, 448. | 0.5 | 3 |
| 34 | Analysis of manufacturing systems via single-class, semi-open queuing networks. International Journal of Production Research, 2011, 49, 295-319. | 4.9 | 18 |
| 35 | Simulation based experimental design to identify factors affecting performance of AVS/RS. Computers and Industrial Engineering, 2010, 58, 175-185. | 3.4 | 88 |
| 36 | Approximate analysis of load-dependent generally distributed queuing networks with low service time variability. European Journal of Operational Research, 2010, 205, 381-389. | 3.5 | 23 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Integrated production-inventory-distribution optimisation in a multi-echelon, multi-product, multi-carrier, multi-period system. International Journal of Value Chain Management, 2010, 4, 267. | 0.1 | 4 |
| 38 | Simulation-based regression analysis for the rack configuration of an autonomous vehicle storage and retrieval system. International Journal of Production Research, 2010, 48, 6257-6274. | 4.9 | 68 |
| 39 | Vehicle interference effects in warehousing systems with autonomous vehicles. , 2010, , . | | Ο |
| 40 | Simulation analysis of a multi-item MRP system based on factorial design. , 2009, , . | | 5 |
| 41 | Two-level manufacturing system performance analyser. International Journal of Production Research, 2009, 47, 2301-2326. | 4.9 | 5 |
| 42 | Simulation based regression analysis for rack configuration of autonomous vehicle storage and retrieval system. , 2009, , . | | 5 |
| 43 | Impact of zones on throughput and cycle times in warehouses with Autonomous Vehicles. , 2009, , . | | 6 |
| 44 | Solving Semi-Open Queuing Networks. Operations Research, 2009, 57, 391-401. | 1.2 | 62 |
| 45 | Analysis of autonomous vehicle storage and retrieval system by open queueing network. , 2009, , . | | 10 |
| 46 | Variance-based approximations of transaction waiting times in autonomous vehicle storage and retrieval systems. European Journal of Industrial Engineering, 2009, 3, 146. | 0.5 | 64 |
| 47 | Simulation based optimization of multi-location transshipment problem with capacitated transportation. , 2008, , . | | 9 |
| 48 | Order oriented slotting: a new assignment strategy for warehouses. European Journal of Industrial Engineering, 2007, 1, 301. | 0.5 | 35 |
| 49 | A multimedia educational tool integrating materials handling technology, analysis and design using a virtual distribution center. European Journal of Industrial Engineering, 2007, 1, 93. | 0.5 | 0 |
| 50 | Stochastic Models for Facilities Logistics. Engineering and Management Innovation, 2007, , . | 0.1 | 0 |
| 51 | A Survey of Automated Material Handling Systems in 300-mm Semiconductor Fabs. IEEE Transactions on Semiconductor Manufacturing, 2006, 19, 112-120. | 1.4 | 95 |
| 52 | Mathematical model for warehouse design and product allocation. International Journal of Production Research, 2005, 43, 327-338. | 4.9 | 129 |
| 53 | Batch size modeling in a multi-item, discrete manufacturing system via an open queuing network. IIE Transactions, 2004, 36, 743-753. | 2.1 | 36 |
| 54 | A Lagrangian relaxation approach to solving the integrated pick-up/drop-off point and AGV flowpath design problem. Applied Mathematical Modelling, 2004, 28, 735-750. | 2.2 | 34 |

Sunderesh Heragu

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Reconfigurable layout problem. International Journal of Production Research, 2004, 42, 4709-4729. | 4.9 | 45 |
| 56 | A hybrid scheduling and control system architecture for warehouse management. IEEE Transactions on Automation Science and Engineering, 2003, 19, 991-1001. | 2.4 | 44 |
| 57 | Learning to design and analyze Materials Handling systems: developing multimedia tools. European Journal of Engineering Education, 2003, 28, 491-506. | 1.5 | Ο |
| 58 | Realization of a short cycle time in warehouse replenishment and order picking. International Journal of Production Research, 2003, 41, 349-364. | 4.9 | 19 |
| 59 | Clustering-based order-picking sequence algorithm for an automated warehouse. International Journal of Production Research, 2003, 41, 3445-3460. | 4.9 | 36 |
| 60 | Multimedia tools for use in materials handling classes. European Journal of Engineering Education, 2003, 28, 375-393. | 1.5 | 6 |
| 61 | Intelligent agent modeling of an industrial warehousing problem. IIE Transactions, 2002, 34, 601-612. | 2.1 | 54 |
| 62 | Next Generation Factory Layouts: Research Challenges and Recent Progress. Interfaces, 2002, 32, 58-76. | 1.6 | 133 |
| 63 | Intelligent agent based framework for manufacturing systems control. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2002, 32, 560-573. | 3.4 | 115 |
| 64 | Intelligent agent modeling of an industrial warehousing problem. IIE Transactions, 2002, 34, 601-612. | 2.1 | 18 |
| 65 | A review of: "SPIRAL―SPIRAL was developed by Marc Goetschalckx Industrial and Systems Engineering Department, Georgia Institute of Technology, Atlanta, GA, USA. IIE Transactions, 2000, 32, 677-677. | 2.1 | Ο |
| 66 | Preparing Students for Careers in Material Handling. Journal of Engineering Education, 2000, 89, 439-441. | 1.9 | 1 |
| 67 | Facility layout design in a changing environment. International Journal of Production Research, 1999, 37, 2429-2446. | 4.9 | 87 |
| 68 | Stepwise decomposition approaches for large scale cell formation problems. European Journal of Operational Research, 1999, 113, 64-79. | 3.5 | 25 |
| 69 | HOPE: A genetic algorithm for the unequal area facility layout problem. Computers and Operations Research, 1998, 25, 583-594. | 2.4 | 65 |
| 70 | Optimal solution of cellular manufacturing system design: Benders' decomposition approach. European Journal of Operational Research, 1998, 107, 175-192. | 3.5 | 62 |
| 71 | Review of:"Rapid Analysis of Queuing Systems (RAQS)â€Developed by: Professor Manjunath Kamath, Oklahoma. IIE Transactions, 1998, 30, 989-989. | 2.1 | 1 |
| 72 | Review of:"Review of Factory Programs - FactoryCAD, FactoryFLOW, and FactoryPLAN imtechnologies Corporation, ISU Research Park, 2501 North Loop Drive, Ames, IA 50010, USA. IIE Transactions, 1998, 30, 409-410. | 2.1 | 1 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Grouping and placement of machine cells. IIE Transactions, 1997, 29, 561-571. | 2.1 | 43 |
| 74 | Grouping and placement of machine cells. IIE Transactions, 1997, 29, 561-571. | 2.1 | 13 |
| 75 | Advances in discrete material handling system design. Sadhana - Academy Proceedings in Engineering Sciences, 1997, 22, 281-292. | 0.8 | 6 |
| 76 | An interactive program for machine grouping and layout. , 1997, , 180-203. | | 1 |
| 77 | A combined branch-and-bound and genetic algorithm based approach for a flowshop scheduling problem. Annals of Operations Research, 1996, 63, 397-414. | 2.6 | 63 |
| 78 | A Branch-and-Bound Approach for a Two-machine Flowshop Scheduling Problem. Journal of the Operational Research Society, 1995, 46, 721-734. | 2.1 | 73 |
| 79 | Multiple and bicriteria scheduling: A literature survey. European Journal of Operational Research, 1995, 81, 88-104. | 3.5 | 203 |
| 80 | A heuristic for designing cellular manufacturing facilities. International Journal of Production Research, 1994, 32, 125-140. | 4.9 | 39 |
| 81 | Group technology and cellular manufacturing. IEEE Transactions on Systems, Man, and Cybernetics, 1994, 24, 203-215. | 0.9 | 150 |
| 82 | Recent models and techniques for solving the layout problem. European Journal of Operational Research, 1992, 57, 136-144. | 3.5 | 75 |
| 83 | Integrating the grouping and layout problems in cellular manufacturing systems. Computers and Industrial Engineering, 1992, 23, 55-58. | 3.4 | 34 |
| 84 | Experimental analysis of simulated annealing based algorithms for the layout problem. European Journal of Operational Research, 1992, 57, 190-202. | 3.5 | 182 |
| 85 | Implications of implementing just-in-time systems. Technovation, 1991, 11, 143-162. | 4.2 | 10 |
| 86 | Efficient models for the facility layout problem. European Journal of Operational Research, 1991, 53, 1-13. | 3.5 | 244 |
| 87 | A 3-OPT based simulated annealing algorithm for vehicle routing problems. Computers and Industrial Engineering, 1991, 21, 635-639. | 3.4 | 54 |
| 88 | Techniques for Machine Layout Optimization in Manufacturing and Automation Systems1 1This chapter is based on a paper titled "Recent Models and Solution Techniques for Facility Layout―by the author that is to appear in European Journal of Operational Research Control and Dynamic Systems, 1991, 46, 137-172. | 0.1 | 0 |
| 89 | Modeling the machine layout problem. Computers and Industrial Engineering, 1990, 19, 294-298. | 3.4 | 4 |
| 90 | Machine layout: an optimization and knowledge-based approach. International Journal of Production Research, 1990, 28, 615-635. | 4.9 | 115 |

Sunderesh Heragu

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Knowledge based approach to machine cell layout. Computers and Industrial Engineering, 1989, 17, 37-42. | 3.4 | 11 |
| 92 | Expert systems and optimization. IEEE Transactions on Software Engineering, 1989, 15, 1017-1020. | 4.3 | 18 |
| 93 | KBSES: A knowledge-based system for equipment selection. International Journal of Advanced Manufacturing Technology, 1988, 3, 97-109. | 1.5 | 8 |
| 94 | Transportation Approach to Locating Plants in Relation to Potential Markets and Raw Material Sources. Decision Sciences, 1988, 19, 819-829. | 3.2 | 4 |
| 95 | Computer integrated manufacturing: a structural perspective. IEEE Network, 1988, 2, 14-22. | 4.9 | 14 |
| 96 | Machine Layout Problem in Flexible Manufacturing Systems. Operations Research, 1988, 36, 258-268. | 1.2 | 270 |
| 97 | Analysis of expert systems in manufacturing design. IEEE Transactions on Systems, Man, and Cybernetics, 1987, 17, 898-912. | 0.9 | 41 |
| 98 | The facility layout problem. European Journal of Operational Research, 1987, 29, 229-251. | 3.5 | 517 |
| 99 | Group technology. Computers in Industry, 1987, 9, 83-91. | 5.7 | 54 |
| 100 | Materials Handling System Design. , 0, , 1-29. | | 0 |
| 101 | Facilities Design. , 0, , . | | 15 |
| 102 | Facilities Design. , 0, , . | | 73 |
| 103 | A Multi-Tier Linking Approach to Analyze Performance of Vehicle-Based Warehouse Systems. SSRN Electronic Journal, 0, , . | 0.4 | 0 |