# Abhijit Gosavi

## List of Publications by Year in descending order

| 63 papers | 1,587 citations | 535685 17 h-index | 355658 38 g-index |
|---|---|---|---|
| 66 all docs | 66 docs citations | 66 times ranked | 1339 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | On general multi-server queues with non-poisson arrivals and medium traffic: a new approximation and a COVID-19 ventilator case study. Operational Research, 2022, 22, 5205-5229. | 1.3 | 2 |
| 2 | Airport location for smart and sustainable living: A model and a case study of rural Missouri, U.S.. Sustainable Cities and Society, 2022, 83, 103928. | 5.1 | 2 |
| 3 | Total productive maintenance of make-to-stock production-inventory systems via artificial-intelligence-based iSMART. International Journal of Systems Science: Operations and Logistics, 2021, 8, 154-166. | 2.0 | 3 |
| 4 | Strategic Implications for Civil Infrastructure and Logistical Support Systems in Postearthquake Disaster Management: The Case of St. Louis. IEEE Engineering Management Review, 2021, 49, 165-173. | 1.0 | 5 |
| 5 | Discrete-Event-Based Simulation Model for Performance Evaluation of Post-Earthquake Restoration in a Smart City. IEEE Transactions on Engineering Management, 2020, 67, 582-592. | 2.4 | 13 |
| 6 | Public Policy in a Pandemic: A Hazard-Control Perspective and a Case Study of the BCG Vaccine for COVID-19. IEEE Engineering Management Review, 2020, 48, 111-117. | 1.0 | 5 |
| 7 | The Actor-Critic Algorithm for Infinite Horizon Discounted Cost Revisited. , 2020, , . | | 0 |
| 8 | A data-driven methodology for dynamic pricing and demand response in electric power networks. Electric Power Systems Research, 2019, 174, 105869. | 2.1 | 11 |
| 9 | A bounded actor–critic reinforcement learning algorithm applied to airline revenue management. Engineering Applications of Artificial Intelligence, 2019, 82, 252-262. | 4.3 | 20 |
| 10 | Predicting Response of Risk-Seeking Systems During Project Negotiations in a System of Systems. IEEE Systems Journal, 2017, 11, 1557-1566. | 2.9 | 5 |
| 11 | A semi-Markov model for post-earthquake emergency response in a smart city. Control Theory and Technology, 2017, 15, 13-25. | 1.0 | 19 |
| 12 | A New Reinforcement Learning Algorithm With Fixed Exploration for Semi-Markov Control in Preventive Maintenance. , 2017, , . | | 3 |
| 13 | Attitudes towards face-to-face meetings in virtual engineering teams: perceptions from a survey of defence projects. International Journal of Project Organisation and Management, 2017, 9, 95. | 0.0 | 2 |
| 14 | Analysis of Clinic Layouts and Patient-Centered Procedural Innovations Using Discrete-Event Simulation. EMJ - Engineering Management Journal, 2016, 28, 134-144. | 1.4 | 14 |
| 15 | Solving Markov decision processes with downside risk adjustment. International Journal of Automation and Computing, 2016, 13, 235-245. | 4.5 | 2 |
| 16 | Consumer perception of US and Japanese automobiles: a statistical comparison via consumer reports and J.D. Power & Associates data. Journal of Evidence-Based Medicine, 2016, 6, 1. | 0.7 | 0 |
| 17 | Analyzing Responses from Likert Surveys and Risk-adjusted Ranking: A Data Analytics Perspective. Procedia Computer Science, 2015, 61, 24-31. | 1.2 | 10 |
| 18 | Flexible and Intelligent Learning Architectures for SoS (FILA-SoS): Architectural Evolution in Systems-of-Systems. Procedia Computer Science, 2015, 44, 76-85. | 1.2 | 35 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | Simulation-Based Optimization. Operations Research/ Computer Science Interfaces Series, 2015, , . | 0.3 | 76 |
| 20 | Control Optimization with Stochastic Dynamic Programming. Operations Research/ Computer Science Interfaces Series, 2015, , 123-195. | 0.3 | 1 |
| 21 | Control Optimization with Reinforcement Learning. Operations Research/ Computer Science Interfaces Series, 2015, , 197-268. | 0.3 | 15 |
| 22 | Solving Markov Decision Processes via Simulation. Profiles in Operations Research, 2015, , 341-379. | 0.3 | 6 |
| 23 | Convergence Analysis of Control Optimization Methods. Operations Research/ Computer Science Interfaces Series, 2015, , 351-450. | 0.3 | 0 |
| 24 | Control Optimization with Stochastic Search. Operations Research/ Computer Science Interfaces Series, 2015, , 269-280. | 0.3 | 0 |
| 25 | Variance-penalized Markov decision processes: dynamic programming and reinforcement learning techniques. International Journal of General Systems, 2014, 43, 649-669. | 1.2 | 13 |
| 26 | How to Rein in the Volatile Actor: A New Bounded Perspective. Procedia Computer Science, 2014, 36, 500-507. | 1.2 | 0 |
| 27 | Relative value iteration for average reward semi-Markov control via simulation. , 2013, , . | | 6 |
| 28 | Evaluating Useful Life and Developing Replacement Schedules for LED Traffic Signals: Statistical Methodology and a Field Study. EMJ - Engineering Management Journal, 2012, 24, 15-23. | 1.4 | 2 |
| 29 | The multi-product price-setting newsvendor with resource capacity constraints. International Journal of Production Economics, 2012, 138, 148-158. | 5.1 | 28 |
| 30 | Form Errors in Precision Metrology: A Survey of Measurement Techniques. Quality Engineering, 2012, 24, 369-380. | 0.7 | 26 |
| 31 | Approximate Policy Iteration for Markov Control Revisited. Procedia Computer Science, 2012, 12, 90-95. | 1.2 | 2 |
| 32 | Impact of Using PEM Forklifts on Manufacturing Layouts. , 2012, , . | | 0 |
| 33 | Approximate Policy Iteration for Semi-Markov Control Revisited. Procedia Computer Science, 2011, 6, 249-255. | 1.2 | 3 |
| 34 | Target-sensitive control of Markov and semi-Markov processes. International Journal of Control, Automation and Systems, 2011, 9, 941-951. | 1.6 | 12 |
| 35 | Semi-Markov adaptive critic heuristics with application to airline revenue management. Journal of Control Theory and Applications, 2011, 9, 421-430. | 0.8 | 10 |
| 36 | On the distribution of the number stranded in bulk-arrival, bulk-service queues of the M/G/1 form. European Journal of Operational Research, 2011, 212, 352-360. | 3.5 | 10 |

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|---|---------|----|-----------|
| 37 | Model-building semi-Markov adaptive critics. , 2011, , . | | 2 |
| 38 | A Budget-Sensitive Approach to Scheduling Maintenance in a Total Productive Maintenance (TPM) Program. EMJ - Engineering Management Journal, 2011, 23, 46-56. | 1.4 | 15 |
| 39 | Stochastic policy search for variance-penalized semi-Markov control. , 2011, , . | | 1 |
| 40 | Joint Optimization of Product Price, Display Orientation and Shelf-Space Allocation in Retail Category Management. Journal of Retailing, 2010, 86, 125-136. | 4.0 | 95 |
| 41 | A Reinforcement Learning Approach for Inventory Replenishment in Vendor-Managed Inventory Systems With Consignment Inventory. EMJ - Engineering Management Journal, 2010, 22, 44-53. | 1.4 | 43 |
| 42 | A machine learning approach to optimise the usage of recycled material in a remanufacturing environment. International Journal of Production Research, 2010, 48, 933-955. | 4.9 | 8 |
| 43 | Finite horizon Markov control with one-step variance penalties. , 2010, , . | | 8 |
| 44 | Reinforcement Learning: A Tutorial Survey and Recent Advances. INFORMS Journal on Computing, 2009, 21, 178-192. | 1.0 | 209 |
| 45 | Reinforcement learning for model building and variance-penalized control. , 2009, , . | | 5 |
| 46 | On step sizes, stochastic shortest paths, and survival probabilities in Reinforcement Learning. , 2008, , . | | 9 |
| 47 | Stochastic Modeling of an Automated Guided Vehicle System With One Vehicle and a Closed-Loop Path. IEEE Transactions on Automation Science and Engineering, 2008, 5, 504-518. | 3.4 | 10 |
| 48 | Simulation-based optimisation for material dispatching in Vendor-Managed Inventory systems. International Journal of Simulation and Process Modelling, 2007, 3, 238. | 0.1 | 13 |
| 49 | A Finite-Differences Derivative-Descent Approach for Estimating Form Error in Precision-Manufactured Parts. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 355-359. | 1.3 | 7 |
| 50 | A risk-sensitive approach to total productive maintenance. Automatica, 2006, 42, 1321-1330. | 3.0 | 65 |
| 51 | Boundedness of iterates in Q-Learning. Systems and Control Letters, 2006, 55, 347-349. | 1.3 | 20 |
| 52 | Simulation optimization for revenue management of airlines with cancellations and overbooking. OR Spectrum, 2006, 29, 21-38. | 2.1 | 46 |
| 53 | A Reinforcement Learning Algorithm Based on Policy Iteration for Average Reward: Empirical Results with Yield Management and Convergence Analysis. Machine Learning, 2004, 55, 5-29. | 3.4 | 66 |
| 54 | Reinforcement learning for long-run average cost. European Journal of Operational Research, 2004, 155, 654-674. | 3.5 | 88 |

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|---|---------|----|-----------|
| 55 | A simulation-based learning automata framework for solving semi-Markov decision problems under long-run average reward. IIE Transactions, 2004, 36, 557-567. | 2.1 | 19 |
| 56 | Simulation-Based Optimization. Operations Research/ Computer Science Interfaces Series, 2003, , . | 0.3 | 200 |
| 57 | OPTIMAL DESIGN OF PLANS FOR ACCEPTANCE SAMPLING BY VARIABLES WITH INVERSE GAUSSIAN DISTRIBUTION. Communications in Statistics Part B: Simulation and Computation, 2002, 31, 463-488. | 0.6 | 1 |
| 58 | Global supply chain management: A reinforcement learning approach. International Journal of Production Research, 2002, 40, 1299-1317. | 4.9 | 71 |
| 59 | Title is missing!. IIE Transactions, 2002, 34, 729-742. | 2.1 | 17 |
| 60 | Solving Semi-Markov Decision Problems Using Average Reward Reinforcement Learning. Management Science, 1999, 45, 560-574. | 2.4 | 155 |
| 61 | Economic design of dual-sampling-interval policies for $X\bar{}$ charts with and without run rules. IIE Transactions, 1997, 29, 497-506. | 2.1 | 35 |
| 62 | General Statistics. IIE Transactions, 1997, 29, 805-806. | 2.1 | 0 |
| 63 | Economic design of dual-sampling-interval policies for $X\bar{}$ charts with and without run rules. IIE Transactions, 1997, 29, 497-506. | 2.1 | 18 |