

Arun D Mahindrakar

List of Publications by Year in descending order

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44
papers

1,108
citations

566801

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525886

27
g-index

45
all docs

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docs citations

45
times ranked

765
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Non-Smooth Projected Primal-Dual Dynamical Approach to Solve the Extended Fermat-Torricelli Problem. , 2021, 5, 1109-1114. | | 3 |
| 2 | MEMS-Based IMU Drift Minimization: Sage Husa Adaptive Robust Kalman Filtering. IEEE Sensors Journal, 2020, 20, 250-260. | 2.4 | 104 |
| 3 | Modelling, design and control of non-isolated single-input multi-output Zeta-Buck-Boost converter. IEEE Transactions on Industry Applications, 2020, , 1-1. | 3.3 | 10 |
| 4 | Computation of outer approximation to reachable set for cooperative systems: Application to an epidemic spreading model. , 2019, , . | | 0 |
| 5 | Reachability analysis and optimal control for epidemic spreading model on multiplex network. , 2019, , . | | 0 |
| 6 | Optimization of Relative and Absolute Thresholding Parameters in Event-triggered Control. , 2019, , . | | 1 |
| 7 | Control of a Driftless Bilinear Vector Field on S^n -Sphere. IEEE Transactions on Automatic Control, 2019, 64, 3226-3238. | 3.6 | 4 |
| 8 | Global attitude estimation and dead reckoning of a mobile spherical robot using extended Kalman filter. , 2019, , . | | 0 |
| 9 | Formation Control and Trajectory Tracking of Nonholonomic Mobile Robots. IEEE Transactions on Control Systems Technology, 2018, 26, 2250-2258. | 3.2 | 44 |
| 10 | Modelling of non-isolated single-input-multi-output DC-DC converter. , 2018, , . | | 5 |
| 11 | COMPLEX LAPLACIAN-BASED DISTRIBUTED CONTROL FOR MULTI-AGENT NETWORK. International Journal of Modeling, Simulation, and Scientific Computing, 2018, 21, 1850015. | 0.9 | 0 |
| 12 | Synchronization of multiple linear systems with communication delay. , 2018, , . | | 2 |
| 13 | Numerical and experimental implementation of leapfrog algorithm for optimal control of a mobile robot. , 2017, , . | | 3 |
| 14 | Stability Analysis of Nonlinear Time-Dependent Systems with Application to Biological Models. International Journal of Applied Mathematics and Computer Science, 2017, 27, 91-103. | 1.5 | 8 |
| 15 | Geometric Controllability and Stabilization of Spherical Robot Dynamics. IEEE Transactions on Automatic Control, 2015, 60, 2762-2767. | 3.6 | 37 |
| 16 | A Deterministic Attitude Estimation Using a Single Vector Information and Rate Gyros. IEEE/ASME Transactions on Mechatronics, 2015, 20, 2630-2636. | 3.7 | 10 |
| 17 | Constrained stabilization of a cart on an asymmetric-beam system through IDA-PBC. , 2014, , . | | 1 |
| 18 | Semistability Analysis of the Chaplygin Sleigh and Nonsmooth Mechanical Oscillator. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, . | 0.9 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Position Stabilization and Waypoint Tracking Control of Mobile Inverted Pendulum Robot. IEEE Transactions on Control Systems Technology, 2014, 22, 2360-2367. | 3.2 | 21 |
| 20 | Finite-Time Control of a Quadrotor System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 643-647. | 0.4 | 0 |
| 21 | Configuration Constrained Stabilization of a Wheeled Mobile Robot Theory and Experiment. IEEE Transactions on Control Systems Technology, 2013, 21, 275-280. | 3.2 | 9 |
| 22 | Constructive immersion and invariance stabilization for a class of underactuated mechanical systems. Automatica, 2013, 49, 1442-1448. | 3.0 | 59 |
| 23 | Robust Stabilization of a Class of Underactuated Mechanical Systems Using Time Scaling and Lyapunov Redesign. IEEE Transactions on Industrial Electronics, 2011, 58, 4299-4313. | 5.2 | 82 |
| 24 | Terminal Sliding Mode Control of a Twin Rotor Multiple-Input Multiple-Output System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10952-10957. | 0.4 | 10 |
| 25 | A Constructive Method for Designing Higher Order Sliding Surfaces for Single-input Nonlinear System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3944-3949. | 0.4 | 1 |
| 26 | Mobile Robot Navigation Through a Hardware-Efficient Implementation for Control-Law-Based Construction of Generalized Voronoi Diagram. IEEE/ASME Transactions on Mechatronics, 2011, 16, 1083-1095. | 3.7 | 30 |
| 27 | Output feedback second-order sliding mode control of the cart on a beam system. International Journal of Robust and Nonlinear Control, 2010, 20, 561-570. | 2.1 | 4 |
| 28 | Asymptotic stabilisation of the ball and beam system: design of energy-based control law and experimental results. International Journal of Control, 2010, 83, 1193-1198. | 1.2 | 6 |
| 29 | Robust stabilization using time-scaling and Lyapunov redesign: The ball-beam system. , 2010, , . | | 1 |
| 30 | Stabilization of a circular ball-and-beam system. , 2010, , . | | 1 |
| 31 | Extending interconnection and damping assignment passivity-based control (IDA-PBC) to underactuated mechanical systems with nonholonomic Pfaffian constraints: The mobile inverted pendulum robot. , 2009, , . | | 10 |
| 32 | Switched control of a nonholonomic mobile robot. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2319-2327. | 1.7 | 44 |
| 33 | Control of a Class of Underactuated Mechanical Systems Using Sliding Modes. IEEE Transactions on Robotics, 2009, 25, 459-467. | 7.3 | 108 |
| 34 | A switched controller for an underactuated underwater vehicle. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 2266-2278. | 1.7 | 33 |
| 35 | State-constrained stabilization of beam-balance systems. International Journal of Robust and Nonlinear Control, 2008, 18, 333-350. | 2.1 | 12 |
| 36 | A hardware-architecture for control-law based voronoi diagram computation and FPGA implementation. , 2008, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Stabilization of a circular ball-and-beam system with input and state constraints using linear matrix inequalities. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , . | 0.0 | 1 |
| 38 | Further constructive results on interconnection and damping assignment control of mechanical systems: the Acrobot example. International Journal of Robust and Nonlinear Control, 2006, 16, 671-685. | 2.1 | 50 |
| 39 | Point-to-point control of a 2R planar horizontal underactuated manipulator. Mechanism and Machine Theory, 2006, 41, 838-844. | 2.7 | 49 |
| 40 | A non-smooth control law and time-optimality notions for the acrobot. International Journal of Control, 2005, 78, 1166-1173. | 1.2 | 5 |
| 41 | Controllability and point-to-point control of 3-DOF planar horizontal underactuated manipulators. International Journal of Control, 2005, 78, 1-13. | 1.2 | 48 |
| 42 | A swing-up of the acrobot based on a simple pendulum strategy. International Journal of Control, 2005, 78, 424-429. | 1.2 | 28 |
| 43 | Interconnection and damping assignment passivity-based control of mechanical systems with underactuation degree one. IEEE Transactions on Automatic Control, 2005, 50, 1936-1955. | 3.6 | 264 |
| 44 | Sub time-optimal swing up of the acrobot. , 2001, , . | | 0 |