

# Ashwin P Dani

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

830  
citations

840776

11  
h-index

713466

21  
g-index

49  
all docs

49  
docs citations

49  
times ranked

658  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Dynamical system learning using extreme learning machines with safety and stability guarantees. International Journal of Adaptive Control and Signal Processing, 2021, 35, 894-914.            | 4.1 | 3         |
| 2  | Variable structure Human Intention Estimator with mobility and vision constraints as model selection criteria. Mechatronics, 2021, 76, 102570.   | 3.3 | 2         |
| 3  | Full- and Reduced-Order Observers for Image-Based Depth Estimation Using Concurrent Learning. IEEE Transactions on Control Systems Technology, 2021, 29, 2647-2653.                            | 5.2 | 9         |
| 4  | Shape estimation for elongated deformable object using B-spline chained multiple random matrices model. International Journal of Intelligent Robotics and Applications, 2020, 4, 429-440.      | 2.8 | 7         |
| 5  | Robotic Wire Pinning for Wire Harness Assembly Automation. , 2020, , .   |     | 5         |
| 6  | Image Moment-Based Extended Object Tracking for Complex Motions. IEEE Sensors Journal, 2020, 20, 6560-6572.  | 4.7 | 9         |
| 7  | Human Intention Estimation using Fusion of Pupil and Hand Motion. IFAC-PapersOnLine, 2020, 53, 9535-9540.  | 0.9 | 3         |
| 8  | Human-in-the-Loop Robot Control for Human-Robot Collaboration: Human Intention Estimation and Safe Trajectory Tracking Control for Collaborative Tasks. IEEE Control Systems, 2020, 40, 29-56. | 0.8 | 19        |
| 9  | Learning position and orientation dynamics from demonstrations via contraction analysis. Autonomous Robots, 2019, 43, 897-912.   | 4.8 | 15        |
| 10 | Active Sampling based Safe Identification of Dynamical Systems using Extreme Learning Machines and Barrier Certificates. , 2019, , .   |     | 8         |
| 11 | Human Intention-Driven Learning Control for Trajectory Synchronization in Human-Robot Collaborative Tasks. IFAC-PapersOnLine, 2019, 51, 1-7.   | 0.9 | 11        |
| 12 | Reduced Order Observer for Structure from Motion using Concurrent Learning. , 2019, , .  |     | 3         |
| 13 | Observer Design for Structure from Motion using Concurrent Learning. , 2019, , .   |     | 6         |
| 14 | Gaze and motion information fusion for human intention inference. International Journal of Intelligent Robotics and Applications, 2018, 2, 136-148.  | 2.8 | 15        |
| 15 | Image Moment-based Object Tracking and Shape Estimation for Complex Motions. , 2018, , .   |     | 2         |
| 16 | Learning Stable Nonlinear Dynamical Systems with External Inputs using Gaussian Mixture Models. , 2018, , .  |     | 4         |
| 17 | Approaches for Creation and Evaluation of Computationally Efficient Thermofluid System Models. IFAC-PapersOnLine, 2018, 51, 868-873.   | 0.9 | 0         |
| 18 | Visual Tracking Using Sparse Coding and Earth Mover's Distance. Frontiers in Robotics and AI, 2018, 5, 95.   | 3.2 | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Vision-based Localization and Robot-centric Mapping in Riverine Environments. Journal of Field Robotics, 2017, 34, 429-450.  | 6.0 | 30        |
| 20 | Human Intention Inference Using Expectation-Maximization Algorithm With Online Model Learning. IEEE Transactions on Automation Science and Engineering, 2017, 14, 855-868.   | 5.2 | 37        |
| 21 | Image moment-based random hypersurface model for extended object tracking. , 2017, , .   |     | 3         |
| 22 | Student research highlight: Gyro-aided visual tracking using iterative earth mover's distance. IEEE Aerospace and Electronic Systems Magazine, 2017, 32, 52-55.  | 1.3 | 2         |
| 23 | A Nonlinear Dynamics-Based Estimator for Functional Electrical Stimulation: Preliminary Results From Lower-Leg Extension Experiments. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2365-2374. | 4.9 | 6         |
| 24 | Learning periodic motions from human demonstrations using transverse contraction analysis. , 2016, , .   |     | 5         |
| 25 | Learning and synchronization of movement primitives for bimanual manipulation tasks. , 2016, , .   |     | 2         |
| 26 | Range and Motion Estimation of a Monocular Camera Using Static and Moving Objects. IEEE Transactions on Control Systems Technology, 2016, 24, 1174-1183.   | 5.2 | 49        |
| 27 | Human intention inference through interacting multiple model filtering. , 2015, , .  |     | 15        |
| 28 | Cooling load forecasting for chiller plants using similar day based wavelet neural networks. , 2015, , .   |     | 2         |
| 29 | Expectation Maximization Method to Identify an Electrically Stimulated Musculoskeletal Model. , 2015, , .  |     | 0         |
| 30 | Learning Contracting Nonlinear Dynamics From Human Demonstration for Robot Motion Planning. , 2015, , .  |     | 14        |
| 31 | Human intention inference and motion modeling using approximate E-M with online learning. , 2015, , .  |     | 7         |
| 32 | Observer Design for Stochastic Nonlinear Systems via Contraction-Based Incremental Stability. IEEE Transactions on Automatic Control, 2015, 60, 700-714.   | 5.7 | 58        |
| 33 | Information fusion in human-robot collaboration using neural network representation. , 2014, , .   |     | 10        |
| 34 | Gyro-aided image-based tracking using mutual information optimization and user inputs. , 2014, , .   |     | 3         |
| 35 | Nonlinear estimation of gait kinematics during functional electrical stimulation and orthosis-based walking. , 2014, , .   |     | 7         |
| 36 | Saturated control of an uncertain nonlinear system with input delay. Automatica, 2013, 49, 1741-1747.  | 5.0 | 85        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Image moments for higher-level feature based navigation. , 2013, , .  |     | 16        |
| 38 | Inertial-Aided Vision-Based Localization and Mapping in a Riverine Environment with Reflection Measurements. , 2013, , .  |     | 7         |
| 39 | Real-Time Structure Estimation in Dynamic Scenes Using a Single Camera. , 2013, , 173-191.  |     | 0         |
| 40 | Camera motion estimation for 3-D structure reconstruction of moving objects. , 2012, , .  |     | 11        |
| 41 | Network Connectivity Preserving Formation Stabilization and Obstacle Avoidance via a Decentralized Controller. IEEE Transactions on Automatic Control, 2012, 57, 1827-1832. | 5.7 | 113       |
| 42 | Single Camera Structure and Motion. IEEE Transactions on Automatic Control, 2012, 57, 238-243.  | 5.7 | 97        |
| 43 | Observer design for stochastic nonlinear systems using contraction analysis. , 2012, , .  |     | 12        |
| 44 | Globally exponentially stable observer for vision-based range estimation. Mechatronics, 2012, 22, 381-389.  | 3.3 | 53        |
| 45 | Structure estimation of a moving object using a moving camera: An unknown input observer approach. , 2011, , .  |     | 27        |
| 46 | Nonlinear observer for structure estimation using a paracatadioptric camera. , 2010, , .  |     | 3         |
| 47 | Structure and motion estimation of a moving object using a moving camera. , 2010, , .   |     | 26        |
| 48 | Globally exponentially convergent observer for vision-based range estimation. , 2010, , .   |     | 4         |
| 49 | Safe Adaptive Trajectory Tracking Control of Robot for Human-Robot Interaction Using Barrier Function Transformation. , 0, , .  |     | 2         |