

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	Network Connectivity Preserving Formation Stabilization and Obstacle Avoidance via a Decentralized Controller. IEEE Transactions on Automatic Control, 2012, 57, 1827-1832.	5.7	113
2	Single Camera Structure and Motion. IEEE Transactions on Automatic Control, 2012, 57, 238-243.	5.7	97
3	Saturated control of an uncertain nonlinear system with input delay. Automatica, 2013, 49, 1741-1747.	5.0	85
4	Observer Design for Stochastic Nonlinear Systems via Contraction-Based Incremental Stability. IEEE Transactions on Automatic Control, 2015, 60, 700-714.	5.7	58
5	Globally exponentially stable observer for vision-based range estimation. Mechatronics, 2012, 22, 381-389.	3.3	53
6	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
7	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
8	Vision-based Localization and Robot-centric Mapping in Riverine Environments. Journal of Field Robotics, 2017, 34, 429-450.	6.0	30
9	Structure estimation of a moving object using a moving camera: An unknown input observer approach. , 2011, , .		27
10	Structure and motion estimation of a moving object using a moving camera. , 2010, , .		26
11	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
12	Image moments for higher-level feature based navigation. , 2013, , .		16
13	Human intention inference through interacting multiple model filtering. , 2015, , .		15
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	Learning position and orientation dynamics from demonstrations via contraction analysis. Autonomous Robots, 2019, 43, 897-912.	4.8	15
16	Learning Contracting Nonlinear Dynamics From Human Demonstration for Robot Motion Planning. , 2015, , .		14
17	Observer design for stochastic nonlinear systems using contraction analysis. , 2012, , .		12
18	Camera motion estimation for 3-D structure reconstruction of moving objects. , 2012, , .		11

#	ARTICLE	IF	CITATIONS
19	Human Intention-Driven Learning Control for Trajectory Synchronization in Human-Robot Collaborative Tasks. IFAC-PapersOnLine, 2019, 51, 1-7.	0.9	11
20	Information fusion in human-robot collaboration using neural network representation. , 2014, , .		10
21	Image Moment-Based Extended Object Tracking for Complex Motions. IEEE Sensors Journal, 2020, 20, 6560-6572.	4.7	9
22	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
23	Active Sampling based Safe Identification of Dynamical Systems using Extreme Learning Machines and Barrier Certificates. , 2019, , .		8
24	Nonlinear estimation of gait kinematics during functional electrical stimulation and orthosis-based walking. , 2014, , .		7
25	Human intention inference and motion modeling using approximate E-M with online learning. , 2015, , .		7
26	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
27	Inertial-Aided Vision-Based Localization and Mapping in a Riverine Environment with Reflection Measurements. , 2013, , .		7
28	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
29	Observer Design for Structure from Motion using Concurrent Learning. , 2019, , .		6
30	Learning periodic motions from human demonstrations using transverse contraction analysis. , 2016, , .		5
31	Robotic Wire Pinning for Wire Harness Assembly Automation. , 2020, , .		5
32	Globally exponentially convergent observer for vision-based range estimation. , 2010, , .		4
33	Learning Stable Nonlinear Dynamical Systems with External Inputs using Gaussian Mixture Models. , 2018, , .		4
34	Nonlinear observer for structure estimation using a paracatadioptric camera. , 2010, , .		3
35	Gyro-aided image-based tracking using mutual information optimization and user inputs. , 2014, , .		3
36	Image moment-based random hypersurface model for extended object tracking. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
37	Visual Tracking Using Sparse Coding and Earth Mover's Distance. <i>Frontiers in Robotics and AI</i> , 2018, 5, 95.	3.2	3
38	Reduced Order Observer for Structure from Motion using Concurrent Learning. , 2019, , .		3
39	Dynamical system learning using extreme learning machines with safety and stability guarantees. <i>International Journal of Adaptive Control and Signal Processing</i> , 2021, 35, 894-914.	4.1	3
40	Human Intention Estimation using Fusion of Pupil and Hand Motion. <i>IFAC-PapersOnLine</i> , 2020, 53, 9535-9540.	0.9	3
41	Cooling load forecasting for chiller plants using similar day based wavelet neural networks. , 2015, , .		2
42	Learning and synchronization of movement primitives for bimanual manipulation tasks. , 2016, , .		2
43	Student research highlight: Gyro-aided visual tracking using iterative earth mover's distance. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2017, 32, 52-55.	1.3	2
44	Image Moment-based Object Tracking and Shape Estimation for Complex Motions. , 2018, , .		2
45	Safe Adaptive Trajectory Tracking Control of Robot for Human-Robot Interaction Using Barrier Function Transformation. , 0, , .		2
46	Variable structure Human Intention Estimator with mobility and vision constraints as model selection criteria. <i>Mechatronics</i> , 2021, 76, 102570.	3.3	2
47	Expectation Maximization Method to Identify an Electrically Stimulated Musculoskeletal Model. , 2015, , .		0
48	Approaches for Creation and Evaluation of Computationally Efficient Thermofluid System Models. <i>IFAC-PapersOnLine</i> , 2018, 51, 868-873.	0.9	0
49	Real-Time Structure Estimation in Dynamic Scenes Using a Single Camera. , 2013, , 173-191.		0