

# Abdelhamid Tayebi

## List of Publications by Year in descending order

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110  
papers

4,990  
citations

136950

32  
h-index

128289

60  
g-index

115  
all docs

115  
docs citations

115  
times ranked

2506  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Observers Design for Vision-Aided Inertial Navigation Systems. IEEE Transactions on Automatic Control, 2022, 67, 1853-1868.	5.7	3
2	Hybrid Feedback for Global Tracking on Matrix Lie Groups $SO(3)$ and $SSE(3)$ . IEEE Transactions on Automatic Control, 2022, 67, 2930-2945.	5.7	10
3	A nonlinear navigation observer using IMU and generic position information. Automatica, 2021, 127, 109513.	5.0	9
4	Should We Delay the Second COVID-19 Vaccine Dose in Order to Optimize Rollout? A Mathematical Perspective. International Journal of Public Health, 2021, 66, 1604312.	2.3	4
5	Nonlinear Attitude Estimation Using Intermittent Linear Velocity and Vector Measurements. , 2021, , .		2
6	Nonlinear Estimation for Position-Aided Inertial Navigation Systems. , 2021, , .		0
7	Nonlinear state estimation for inertial navigation systems with intermittent measurements. Automatica, 2020, 122, 109244.	5.0	12
8	Hybrid Nonlinear Observers for Inertial Navigation Using Landmark Measurements. IEEE Transactions on Automatic Control, 2020, 65, 5173-5188.	5.7	17
9	Position, Velocity, Attitude and Gyro-Bias Estimation from IMU and Position Information. , 2019, , .		7
10	Attitude estimation with intermittent measurements. Automatica, 2019, 105, 415-421.	5.0	13
11	A New Hybrid Control Strategy for the Global Attitude Tracking Problem. , 2019, , .		1
12	Nonlinear Observers for Stereo-Vision-Aided Inertial Navigation. , 2019, , .		1
13	Hybrid Pose and Velocity-Bias Estimation on $SSE(3)$ Using Inertial and Landmark Measurements. IEEE Transactions on Automatic Control, 2019, 64, 3399-3406.	5.7	22
14	Adaptive Attitude Tracking Control of Rigid Body Systems With Unknown Inertia and Gyro-Bias. IEEE Transactions on Automatic Control, 2018, 63, 3986-3993.	5.7	14
15	Hybrid Output Feedback for Attitude Tracking on $SO(3)$ . IEEE Transactions on Automatic Control, 2018, 63, 3956-3963.	5.7	32
16	Distributed Consensus Algorithms for a Class of High-Order Multi-Agent Systems on Directed Graphs. IEEE Transactions on Automatic Control, 2018, 63, 3464-3470.	5.7	54
17	Distributed output regulation of heterogeneous linear multi-agent systems with communication constraints. Automatica, 2018, 91, 152-158.	5.0	47
18	On the Design of Attitude Complementary Filters on $SO(3)$ . IEEE Transactions on Automatic Control, 2018, 63, 880-887.	5.7	19

#	ARTICLE	IF	CITATIONS
19	Geometric Nonlinear Observer Design for SLAM on a Matrix Lie Group. , 2018, , .		9
20	Hybrid Constrained Estimation for Linear Time-Varying Systems. , 2018, , .		3
21	A Globally Exponentially Stable Nonlinear Hybrid Observer for 3D Inertial Navigation. , 2018, , .		5
22	Adaptive trajectory tracking control for VTOL UAVs with unknown inertia, gyro bias, and actuator LOE. International Journal of Robust and Nonlinear Control, 2018, 28, 5247-5261.	3.7	8
23	Construction of Synergistic Potential Functions on $SO(3)$ With Application to Velocity-Free Hybrid Attitude Stabilization. IEEE Transactions on Automatic Control, 2017, 62, 495-501.	5.7	50
24	Hybrid global exponential stabilization on $S^3 \times O(3)$ . Automatica, 2017, 81, 279-285.	5.0	47
25	Hybrid Attitude and Gyro-Bias Observer Design on $SO(3)$ . IEEE Transactions on Automatic Control, 2017, 62, 6044-6050.	5.7	36
26	Leader-Follower Synchronization of Euler-Lagrange Systems With Time-Varying Leader Trajectory and Constrained Discrete-Time Communication. IEEE Transactions on Automatic Control, 2017, 62, 2539-2545.	5.7	67
27	Distributed Coordination of Dynamical Multi-Agent Systems Under Directed Graphs and Constrained Information Exchange. IEEE Transactions on Automatic Control, 2017, 62, 1668-1683.	5.7	33
28	Attitude and gyro bias estimation using GPS and IMU measurements. , 2017, , .		12
29	Attitude observer using synchronous intermittent vector measurements. , 2017, , .		0
30	Globally asymptotically stable hybrid observers design on $SE(3)$ . , 2017, , .		9
31	Consensus of heterogeneous multiple integrator agents on directed graphs. , 2017, , .		1
32	Cooperative output regulation of linear multi-agent systems with communication constraints. , 2016, , .		2
33	State synchronization of double-integrator dynamics with delayed sampled-data information exchange. , 2016, , .		0
34	A globally exponentially stable hybrid attitude and gyro-bias observer. , 2016, , .		6
35	On deterministic attitude observers on the Special Orthogonal group $SO(3)$ . , 2016, , .		4
36	Global exponential angular velocity observer for rigid body systems. , 2016, , .		8

#	ARTICLE	IF	CITATIONS
37	Velocity-free hybrid attitude stabilization using inertial vector measurements. , 2016, , .		1
38	Global hybrid attitude estimation on the Special Orthogonal group $SO(3)$ . , 2016, , .		6
39	Velocity-free attitude stabilization with inertial vector measurements. International Journal of Robust and Nonlinear Control, 2016, 26, 2478-2493.	3.7	12
40	Distributed coordination of linear second-order multi-agent systems with communication constraints. , 2015, , .		1
41	Some Optimization Aspects on the Lie Group $SO(3)$ . IFAC-PapersOnLine, 2015, 48, 1117-1121.	0.9	6
42	On the design of synergistic potential functions on $SO(3)$ . , 2015, , .		6
43	On the leader-follower synchronization of Euler-Lagrange systems. , 2015, , .		8
44	Synchronization of nonlinear systems with communication delays and intermittent information exchange. Automatica, 2015, 59, 1-8.	5.0	44
45	Motion coordination of thrust-propelled underactuated vehicles with intermittent and delayed communications. Systems and Control Letters, 2015, 79, 15-22.	2.3	32
46	Rapid-prototyping of iterative learning control using MATLAB/Simlink hybrid-programming. , 2015, , .		2
47	Attitude stabilization without angular velocity measurements. , 2014, , .		3
48	Containment control for networked Lagrangian systems under a directed graph and communication constraints. , 2014, , .		3
49	Synchronization of Lagrangian Systems With Irregular Communication Delays. IEEE Transactions on Automatic Control, 2014, 59, 187-193.	5.7	103
50	Synchronization of Heterogeneous Euler-Lagrange Systems with Time Delays and Intermittent Information Exchange. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1971-1976.	0.4	1
51	Inertial Vector Measurements Based Velocity-Free Attitude Stabilization. IEEE Transactions on Automatic Control, 2013, 58, 2893-2898.	5.7	45
52	On consensus algorithms design for double integrator dynamics. Automatica, 2013, 49, 253-260.	5.0	163
53	A new position regulation strategy for VTOL UAVs using IMU and GPS measurements. Automatica, 2013, 49, 434-440.	5.0	26
54	Formation Control of VTOL UAVs. Advances in Industrial Control, 2013, , 105-127.	0.5	3

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55	Motion Coordination for VTOL Unmanned Aerial Vehicles. <i>Advances in Industrial Control</i> , 2013, , .	0.5	79
56	Background and Preliminaries. <i>Advances in Industrial Control</i> , 2013, , 11-26.	0.5	0
57	Formation Control with Communication Delays. <i>Advances in Industrial Control</i> , 2013, , 129-152.	0.5	0
58	Rigid-Body Attitude Synchronization with Communication Delays. <i>Advances in Industrial Control</i> , 2013, , 63-84.	0.5	1
59	Position Tracking for VTOL UAVs. <i>Advances in Industrial Control</i> , 2013, , 85-104.	0.5	1
60	Rigid-Body Attitude Synchronization. <i>Advances in Industrial Control</i> , 2013, , 27-61.	0.5	0
61	Consensus algorithms design for constrained heterogeneous multi-agent systems. , 2012, , .		3
62	Rigid body attitude synchronization with communication delays. , 2012, , .		3
63	Synchronization of multiple Euler-Lagrange systems with communication delays. , 2012, , .		7
64	Attitude Synchronization of Multiple Rigid Bodies With Communication Delays. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 2405-2411.	5.7	118
65	Adaptive synchronization of networked Lagrangian systems with irregular communication delays. , 2012, , .		5
66	Adaptive Position Tracking of VTOL UAVs. <i>IEEE Transactions on Robotics</i> , 2011, 27, 129-142.	10.3	169
67	Formation control of VTOL Unmanned Aerial Vehicles with communication delays. <i>Automatica</i> , 2011, 47, 2383-2394.	5.0	304
68	A unified approach to the velocity-free consensus algorithms design for double integrator dynamics with input saturations. , 2011, , .		10
69	On the attitude estimation of accelerating rigid-bodies using GPS and IMU measurements. , 2011, , .		32
70	Position control of VTOL UAVs using IMU and GPS measurements. , 2011, , .		4
71	Global trajectory tracking control of VTOL-UAVs without linear velocity measurements. <i>Automatica</i> , 2010, 46, 1053-1059.	5.0	191
72	On consensus algorithms for double-integrator dynamics without velocity measurements and with input constraints. <i>Systems and Control Letters</i> , 2010, 59, 812-821.	2.3	241

#	ARTICLE	IF	CITATIONS
73	Formation stabilization of VTOL UAVs subject to communication delays. , 2010, , .		4
74	Velocity-free consensus algorithms for double-integrator dynamics with input saturations constraints. , 2010, , .		6
75	Direct time injection in the loop: A new adaptive control point of view. , 2009, , .		1
76	Adaptive position tracking of VTOL UAVs. , 2009, , .		7
77	On the coordinated attitude alignment of a group of spacecraft without velocity measurements. , 2009, , .		8
78	Formation control of VTOL-UAVs. , 2009, , .		28
79	All-pass filtering in iterative learning control. Automatica, 2009, 45, 257-264.	5.0	47
80	Attitude Synchronization of a Group of Spacecraft Without Velocity Measurements. IEEE Transactions on Automatic Control, 2009, 54, 2642-2648.	5.7	266
81	A Multichannel IOS Small Gain Theorem for Systems With Multiple Time-Varying Communication Delays. IEEE Transactions on Automatic Control, 2009, 54, 404-409.	5.7	57
82	Further results on adaptive iterative learning control of robot manipulators. Automatica, 2008, 44, 830-837.	5.0	89
83	Robust Iterative Learning Control Design: Application to a Robot Manipulator. IEEE/ASME Transactions on Mechatronics, 2008, 13, 608-613.	5.8	96
84	Unit Quaternion-Based Output Feedback for the Attitude Tracking Problem. IEEE Transactions on Automatic Control, 2008, 53, 1516-1520.	5.7	274
85	Step by step robust nonlinear PI for attitude stabilisation of a four-rotor mini-aircraft. , 2008, , .		20
86	Attitude synchronization of a spacecraft formation without velocity measurement. , 2008, , .		16
87	A multichannel IOS small gain theorem for systems with multiple time-varying communication delays. , 2007, , .		6
88	Attitude estimation and stabilization of a rigid body using low-cost sensors. , 2007, , .		55
89	A Unified Adaptive Iterative Learning Control Framework for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2007, 52, 1907-1913.	5.7	146
90	A Unit-Gain D-type Iterative Learning Control Scheme: Application to a 6-DOF Robot Manipulator. , 2007, , .		2

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91	A velocity-free attitude tracking controller for rigid spacecraft. , 2007, , .		6
92	A One-Parameter Structure for Adaptive Iterative Learning Control of Robot Manipulators. , 2007, , .		2
93	Analysis of two particular iterative learning control schemes in frequency and time domains. Automatica, 2007, 43, 1565-1572.	5.0	52
94	An Adaptive Iterative Learning Control Framework for a Class of Uncertain Nonlinear Systems. , 2006, , .		5
95	Unit quaternion observer based attitude stabilization of a rigid spacecraft without velocity measurement. , 2006, , .		19
96	Adaptive iterative learning control for robot manipulators: Experimental results. Control Engineering Practice, 2006, 14, 843-851.	5.5	78
97	Control schemes for stable teleoperation with communication delay based on IOS small gain theorem. Automatica, 2006, 42, 905-915.	5.0	72
98	Attitude stabilization of a VTOL quadrotor aircraft. IEEE Transactions on Control Systems Technology, 2006, 14, 562-571.	5.2	790
99	Model reference adaptive iterative learning control for linear systems. International Journal of Adaptive Control and Signal Processing, 2006, 20, 475-489.	4.1	19
100	Vision based trajectory tracking controller for a B21R mobile robot. , 2006, , .		3
101	STABILIZATION SCHEME FOR FORCE REFLECTING TELEOPERATION WITH TIME-VARYING COMMUNICATION DELAY BASED ON IOS SMALL GAIN THEOREM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 394-399.	0.4	7
102	ANTICIPATIVE ITERATIVE LEARNING CONTROL OF ROBOT MANIPULATORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 499-504.	0.4	1
103	Adaptive iterative learning control for robot manipulators. Automatica, 2004, 40, 1195-1203.	5.0	394
104	Authors' Reply to 'Comments on 'Robust iterative learning control design is straightforward for uncertain LTI systems satisfying the robust performance condition''. IEEE Transactions on Automatic Control, 2004, 49, 2303-2303.	5.7	2
105	An iterative learning control scheme for robot manipulators without velocity measurement. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 675-679.	0.4	1
106	Observer-based iterative learning control for a class of time-varying nonlinear systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 452-455.	0.1	45
107	Robust iterative learning control design is straightforward for uncertain LTI systems satisfying the robust performance condition. IEEE Transactions on Automatic Control, 2003, 48, 101-106.	5.7	87
108	Iterative learning control for non-linear systems described by a blended multiple model representation. International Journal of Control, 2002, 75, 1376-1384.	1.9	14

#	ARTICLE	IF	CITATIONS
109	Title is missing!. Nonlinear Dynamics, 2001, 24, 167-181.	5.2	29
110	Adaptive controller for non-holonomic mobile robots with matched uncertainties. Advanced Robotics, 2000, 14, 105-118.	1.8	18