

# Itzhak Barkana

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7307883/publications.pdf>

Version: 2024-02-01

31  
papers

1,036  
citations

623734

14  
h-index

552781

26  
g-index

31  
all docs

31  
docs citations

31  
times ranked

456  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Adaptive Control Algorithms. , 1998, , .		249
2	Modeling and Direct Adaptive Control of a Flexible- Joint Manipulator. Journal of Guidance, Control, and Dynamics, 2012, 35, 25-39.	2.8	105
3	Classical and Simple Adaptive Control for Nonminimum Phase Autopilot Design. Journal of Guidance, Control, and Dynamics, 2005, 28, 631-638.	2.8	78
4	Simple adaptive control â€“ a stable direct model reference adaptive control methodology â€“ brief survey. International Journal of Adaptive Control and Signal Processing, 2014, 28, 567-603.	4.1	72
5	Gain conditions and convergence of simple adaptive control. International Journal of Adaptive Control and Signal Processing, 2005, 19, 13-40.	4.1	66
6	Defending the beauty of the Invariance Principle. International Journal of Control, 2014, 87, 186-206.	1.9	66
7	Nonlinear Adaptive Output Feedback Control of Flexible-Joint Space Manipulators with Joint Stiffness Uncertainties. Journal of Guidance, Control, and Dynamics, 2014, 37, 1961-1975.	2.8	61
8	Mitigation of symmetry condition in positive realness for adaptive control. Automatica, 2006, 42, 1611-1616.	5.0	59
9	Passivity-Based Adaptive Control of Robotic Spacecraft for Proximity Operations Under Uncertainties. Journal of Guidance, Control, and Dynamics, 2016, 39, 1444-1453.	2.8	30
10	Improving the performance of existing missile autopilot using simple adaptive control. International Journal of Adaptive Control and Signal Processing, 2014, 28, 732-749.	4.1	29
11	Adaptive Control? But is so Simple!. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 83, 3-34.	3.4	27
12	Almost Passivity and Simple Adaptive Control in Discrete-Time Systems. Asian Journal of Control, 2014, 16, 947-958.	3.0	25
13	Robustness and perfect tracking in simple adaptive control. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1118-1151.	4.1	25
14	Simple Adaptive Control Applications to Large Flexible Structures. Journal of Guidance, Control, and Dynamics, 2011, 34, 1929-1932.	2.8	18
15	Improving the Performance of Existing Missile Autopilot Using Simple Adaptive Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6567-6572.	0.4	15
16	SIMPLE ADAPTIVE CONTROL - A STABLE DIRECT MODEL REFERENCE ADAPTIVE CONTROL METHODOLOGY - BRIEF SURVEY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 310-327.	0.4	13
17	A modified invariance principle and gain convergence in adaptive control. , 2008, , .		12
18	Parallel Feedforward and Simple Adaptive Control of Flexible Structures: First-Order Pole Instead of Collocated Velocity Sensors?. Journal of Aerospace Engineering, 2016, 29, .	1.4	12

#	ARTICLE	IF	CITATIONS
19	ON OUTPUT FEEDBACK STABILITY AND PASSIVITY IN DISCRETE LINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 801-806.	0.4	11
20	Extensions in adaptive model tracking with mitigated passivity conditions. Chinese Journal of Aeronautics, 2013, 26, 136-150.	5.3	11
21	Simple Adaptive Control: The Optimal Model Reference " Short tutorial. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 396-407.	0.4	11
22	The duality of parallel feedforward and negative feedback. , 2012, , .		9
23	The beauty of simple adaptive control and new developments in nonlinear systems stability analysis. AIP Conference Proceedings, 2014, , .	0.4	7
24	Stability of the SDDRE based observer for deterministic nonlinear systems. , 2016, , .		6
25	ADAPTIVE MODEL TRACKING WITH MITIGATED PASSIVITY CONDITIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 263-268.	0.4	5
26	Simple and robust adaptive control. International Journal of Adaptive Control and Signal Processing, 2014, 28, 563-566.	4.1	5
27	A close examination of under-actuated attitude control subsystem design for future satellite missions"™ life extension. , 2014, , .		2
28	The new theorem of stability and gain convergence in simple adaptive control. AIP Conference Proceedings, 2017, , .	0.4	2
29	Can stability analysis be really simplified? (revisiting Lyapunov, Barbalat, LaSalle and all that). AIP Conference Proceedings, 2017, , .	0.4	2
30	On Robustness and Perfect Tracking with Simple Adaptive Control in Nonlinear Systems. IFAC-PapersOnLine, 2017, 50, 4258-4263.	0.9	2
31	Discussion on: "Adaptive Tracking for Linear Plants under Fixed Feedback" European Journal of Control, 2012, 18, 422-424.	2.6	1