

# Iasson Karafyllis

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5869826/iasson-karafyllis-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98  
papers

2,255  
citations

27  
h-index

44  
g-index

114  
ext. papers

2,786  
ext. citations

2.9  
avg, IF

5.95  
L-index

#	Paper	IF	Citations
98	Nonlinear Stabilization Under Sampled and Delayed Measurements, and With Inputs Subject to Delay and Zero-Order Hold. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 1141-1154	5.9	167
97	Stability and Stabilization of Nonlinear Systems. <i>Communications and Control Engineering</i> , <b>2011</b> ,	0.6	145
96	From Continuous-Time Design to Sampled-Data Design of Observers. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 2169-2174	5.9	130
95	Global exponential sampled-data observers for nonlinear systems with delayed measurements. <i>Systems and Control Letters</i> , <b>2013</b> , 62, 539-549	2.4	91
94	Global stability results for systems under sampled-data control. <i>International Journal of Robust and Nonlinear Control</i> , <b>2009</b> , 19, 1105-1128	3.6	81
93	Sampled-data boundary feedback control of 1-D parabolic PDEs. <i>Automatica</i> , <b>2018</b> , 87, 226-237	5.7	72
92	ISS with Respect to Boundary Disturbances for 1-D Parabolic PDEs. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 3712-3724	5.9	71
91	Input-to-Output Stability for Systems Described by Retarded Functional Differential Equations. <i>European Journal of Control</i> , <b>2008</b> , 14, 539-555	2.5	65
90	Stabilization of nonlinear delay systems using approximate predictors and high-gain observers. <i>Automatica</i> , <b>2013</b> , 49, 3623-3631	5.7	63
89	Global Output Stability for Systems Described by Retarded Functional Differential Equations: Lyapunov Characterizations. <i>European Journal of Control</i> , <b>2008</b> , 14, 516-536	2.5	61
88	Delay-robustness of linear predictor feedback without restriction on delay rate. <i>Automatica</i> , <b>2013</b> , 49, 1761-1767	5.7	60
87	Converse Lyapunov-Krasovskii theorems for systems described by neutral functional differential equations in Hale's form. <i>International Journal of Control</i> , <b>2013</b> , 86, 232-243	1.5	58
86	Lyapunov theorems for systems described by retarded functional differential equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2006</b> , 64, 590-617	1.3	56
85	Stability results for systems described by coupled retarded functional differential equations and functional difference equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , <b>2009</b> , 71, 3339-3362	1.3	51
84	ISS In Different Norms For 1-D Parabolic Pdes With Boundary Disturbances. <i>SIAM Journal on Control and Optimization</i> , <b>2017</b> , 55, 1716-1751	1.9	47
83	On the relation of delay equations to first-order hyperbolic partial differential equations. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2014</b> , 20, 894-923	1	45
82	The Non-Uniform in Time Small-Gain Theorem for a Wide Class of Control Systems with Outputs. <i>European Journal of Control</i> , <b>2004</b> , 10, 307-323	2.5	45

81	Necessary and sufficient Lyapunov-like conditions for robust nonlinear stabilization. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2010</b> , 16, 887-928	1	41
80	Global stabilisation of nonlinear delay systems with a compact absorbing set. <i>International Journal of Control</i> , <b>2014</b> , 87, 1010-1027	1.5	40
79	Numerical schemes for nonlinear predictor feedback. <i>Mathematics of Control, Signals, and Systems</i> , <b>2014</b> , 26, 519-546	1.3	36
78	A system-theoretic framework for a wide class of systems I: Applications to numerical analysis. <i>Journal of Mathematical Analysis and Applications</i> , <b>2007</b> , 328, 876-899	1.1	34
77	Sampled-data boundary feedback control of 1-D linear transport PDEs with non-local terms. <i>Systems and Control Letters</i> , <b>2017</b> , 107, 68-75	2.4	29
76	A Vector Lyapunov Function Characterization of Input-to-State Stability with Application to Robust Global Stabilization of the Chemostat. <i>European Journal of Control</i> , <b>2008</b> , 14, 47-61	2.5	29
75	Control of hot spots in plug flow reactors. <i>Computers and Chemical Engineering</i> , <b>2002</b> , 26, 1087-1094	4	29
74	Predictor-based tracking for neuromuscular electrical stimulation. <i>International Journal of Robust and Nonlinear Control</i> , <b>2015</b> , 25, 2391-2419	3.6	28
73	A system-theoretic framework for a wide class of systems II: Input-to-output stability. <i>Journal of Mathematical Analysis and Applications</i> , <b>2007</b> , 328, 466-486	1.1	27
72	Robust output feedback stabilization and nonlinear observer design. <i>Systems and Control Letters</i> , <b>2005</b> , 54, 925-938	2.4	27
71	Global Stabilization of Feedforward Systems Under Perturbations in Sampling Schedule. <i>SIAM Journal on Control and Optimization</i> , <b>2012</b> , 50, 1389-1412	1.9	25
70	A new small-gain theorem with an application to the stabilization of the chemostat. <i>International Journal of Robust and Nonlinear Control</i> , <b>2012</b> , 22, 1602-1630	3.6	24
69	On the Observer Problem for Discrete-Time Control Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 12-25	5.9	24
68	Global Exponential Stability for Discrete-Time Networks With Applications to Traffic Networks. <i>IEEE Transactions on Control of Network Systems</i> , <b>2015</b> , 2, 68-77	4	23
67	Robust predictor feedback for discrete-time systems with input delays. <i>International Journal of Control</i> , <b>2013</b> , 86, 1652-1663	1.5	23
66	Robust global stabilisability by means of sampled-data control with positive sampling rate. <i>International Journal of Control</i> , <b>2009</b> , 82, 755-772	1.5	23
65	Global exponential observers for two classes of nonlinear systems. <i>Systems and Control Letters</i> , <b>2012</b> , 61, 797-806	2.4	22
64	Feedback control of scalar conservation laws with application to density control in freeways by means of variable speed limits. <i>Automatica</i> , <b>2019</b> , 105, 228-236	5.7	21

63	Non-uniform in time robust global asymptotic output stability. <i>Systems and Control Letters</i> , <b>2005</b> , 54, 181-193	2.4	21
62	Adaptive boundary control of constant-parameter reaction-diffusion PDEs using regulation-triggered finite-time identification. <i>Automatica</i> , <b>2019</b> , 103, 166-179	5.7	19
61	Event-triggered boundary control of constant-parameter reaction-diffusion PDEs: A small-gain approach. <i>Automatica</i> , <b>2021</b> , 128, 109562	5.7	18
60	Exponential Stability Analysis of Sampled-Data ODE/PDE Systems and Application to Observer Design. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 3091-3098	5.9	17
59	. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 3647-3662	5.9	17
58	Small-Gain-Based Boundary Feedback Design for Global Exponential Stabilization of One-Dimensional Semilinear Parabolic PDEs. <i>SIAM Journal on Control and Optimization</i> , <b>2019</b> , 57, 2016-2036	1.9	16
57	Relaxed Lyapunov criteria for robust global stabilisation of non-linear systems. <i>International Journal of Control</i> , <b>2009</b> , 82, 2077-2094	1.5	16
56	A vector Small-Gain Theorem for general nonlinear control systems <b>2009</b> ,		14
55	Hybrid dead-beat observers for a class of nonlinear systems. <i>Systems and Control Letters</i> , <b>2011</b> , 60, 608-617	1.7	14
54	Global Stabilization of Nonlinear Systems Based on Vector Control Lyapunov Functions. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 2550-2562	5.9	13
53	Non-uniform robust global asymptotic stability for discrete-time systems and applications to numerical analysis. <i>IMA Journal of Mathematical Control and Information</i> , <b>2006</b> , 23, 11-41	1.1	13
52	Adaptive Certainty-Equivalence Control With Regulation-Triggered Finite-Time Least-Squares Identification. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 3261-3275	5.9	12
51	Small-gain stability analysis of certain hyperbolic-parabolic PDE loops. <i>Systems and Control Letters</i> , <b>2018</b> , 118, 52-61	2.4	12
50	Price stabilization using buffer stocks. <i>Journal of Economic Dynamics and Control</i> , <b>2008</b> , 32, 1212-1235	1.3	12
49	Sampled-data observers for 1-D parabolic PDEs with non-local outputs. <i>Systems and Control Letters</i> , <b>2019</b> , 133, 104553	2.4	11
48	Stability of integral delay equations and stabilization of age-structured models. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2017</b> , 23, 1667-1714	1	10
47	Control Lyapunov functions and stabilization by means of continuous time-varying feedback. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2009</b> , 15, 599-625	1	10
46	Dynamics of a reaction-diffusion system with Brusselator kinetics under feedback control. <i>Physical Review E</i> , <b>1999</b> , 59, 372-380	2.4	10

45	Lane-Free Artificial-Fluid Concept for Vehicular Traffic. <i>Proceedings of the IEEE</i> , <b>2021</b> , 109, 114-121	14.3	10
44	Global exponential stabilization of freeway models. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 1184-1210	3.6	9
43	Nash equilibrium and robust stability in dynamic games: A small-gain perspective. <i>Computers and Mathematics With Applications</i> , <b>2010</b> , 60, 2936-2952	2.7	9
42	Input-to state stability with respect to boundary disturbances for the 1-D heat equation <b>2016</b> ,		9
41	. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 6195-6208	5.9	8
40	Can we prove stability by using a positive definite function with non sign-definite derivative?. <i>IMA Journal of Mathematical Control and Information</i> , <b>2012</b> , 29, 147-170	1.1	8
39	Robust global stabilization by means of discrete-delay output feedback. <i>Systems and Control Letters</i> , <b>2008</b> , 57, 987-995	2.4	8
38	Sampled boundary observer for strict-feedback nonlinear ODE systems with parabolic PDE sensor. <i>Automatica</i> , <b>2019</b> , 101, 439-449	5.7	8
37	Global exponential stabilisation of acyclic traffic networks. <i>International Journal of Control</i> , <b>2019</b> , 92, 564-584	1.5	8
36	Adaptive Control by Regulation-Triggered Batch Least Squares. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 2842-2855	5.9	8
35	Control Lyapunov Functionals and robust stabilization of nonlinear time-delay systems <b>2008</b> ,		7
34	Event-triggered boundary control of constant-parameter reaction-diffusion PDEs: a small-gain approach <b>2020</b> ,		7
33	Lyapunov-based boundary feedback design for parabolic PDEs. <i>International Journal of Control</i> , <b>2021</b> , 94, 1247-1260	1.5	7
32	A note on sampled-data observers. <i>Systems and Control Letters</i> , <b>2020</b> , 144, 104760	2.4	5
31	Yield trajectory tracking for hyperbolic age-structured population systems. <i>Automatica</i> , <b>2018</b> , 90, 138-146	4.7	5
30	Local and coordinated ramp metering within the unifying framework of an adaptive control scheme. <i>Transportation Research, Part A: Policy and Practice</i> , <b>2019</b> , 128, 89-113	3.7	5
29	Reduced order dead-beat observers for the chemostat. <i>Nonlinear Analysis: Real World Applications</i> , <b>2013</b> , 14, 340-351	2.1	5
28	Stability and control of nonlinear systems described by retarded functional equations: a review of recent results. <i>Science in China Series F: Information Sciences</i> , <b>2009</b> , 52, 2104-2126		5

27	Analysis and control of a non-local PDE traffic flow model. <i>International Journal of Control</i> , <b>2020</b> , 1-19	1.5	5
26	Global Stabilization of a Class of Nonlinear Reaction-Diffusion Partial Differential Equations by Boundary Feedback. <i>SIAM Journal on Control and Optimization</i> , <b>2019</b> , 57, 3723-3748	1.9	5
25	Sampled-data feedback stabilization of age-structured chemostat models <b>2015</b> ,		4
24	Decay estimates for 1-D parabolic PDES with boundary disturbances. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , <b>2018</b> , 24, 1511-1540	1	4
23	Stability of Sampled-Data PDE-ODE Systems and Application to Observer Design and Output-Feedback Stabilization. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 13289-13294	0.7	3
22	Feedback Stabilization Methods for the Solution of Nonlinear Programming Problems. <i>Journal of Optimization Theory and Applications</i> , <b>2014</b> , 161, 783-806	1.6	3
21	Global stability results for systems under sampled-data control <b>2007</b> ,		3
20	Stability results for systems described by retarded functional differential equations <b>2007</b> ,		3
19	Stability results for the continuity equation. <i>Systems and Control Letters</i> , <b>2020</b> , 135, 104594	2.4	3
18	Wave Equations With Kelvin-Voigt Damping and Boundary Disturbance: A Study of the Asymptotic Gain Properties <b>2019</b> ,		2
17	Event-triggered boundary control of a continuum model of highly re-entrant manufacturing systems. <i>Automatica</i> , <b>2021</b> , 134, 109902	5.7	2
16	Observer-based Event-triggered Boundary Control of a Class of Reaction-Diffusion PDEs. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	2
15	Boundary-to-Displacement asymptotic gains for wave systems with Kelvin-Voigt damping. <i>International Journal of Control</i> , <b>2020</b> , 1-12	1.5	1
14	An adaptive control scheme for local and coordinated ramp metering <b>2017</b> ,		1
13	Nonlinear stabilization under sampled and delayed measurements, and with inputs subject to delay and zero-order hold <b>2011</b> ,		1
12	Nash equilibrium and robust stability in dynamic games: A small-gain perspective <b>2010</b> ,		1
11	From continuous-time design to sampled-data design of nonlinear observers <b>2008</b> ,		1
10	Sampled-data and event-triggered boundary control of a class of reaction-diffusion PDEs with collocated sensing and actuation. <i>Automatica</i> , <b>2021</b> , 137, 110026	5.7	1

9	On the relation of IOS-gains and asymptotic gains for linear systems. <i>Systems and Control Letters</i> , <b>2021</b> , 152, 104934	2.4	1
8	Nonlinear adaptive control scheme for discrete-time systems with application to freeway traffic flow networks <b>2016</b> ,		1
7	Sampled-data observers for delay systems and hyperbolic PDE loops. <i>Automatica</i> , <b>2021</b> , 123, 109349	3.7	1
6	Lyapunov conditions for uniform asymptotic output stability and a relaxation of Barbashin lemma. <i>Automatica</i> , <b>2021</b> , 132, 109792	5.7	1
5	Nonlinear adaptive cruise control of vehicular platoons. <i>International Journal of Control</i> , 1-23	1.5	1
4	Spill-Free Transfer and Stabilization of Viscous Liquid. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	0
3	Parabolic/Hyperbolic PDE Loops. <i>Communications and Control Engineering</i> , <b>2019</b> , 263-283	0.6	
2	Existence/Uniqueness Results for Hyperbolic PDEs. <i>Communications and Control Engineering</i> , <b>2019</b> , 19-38	0.6	
1	ISS in Spatial Lp Norms for Hyperbolic PDEs. <i>Communications and Control Engineering</i> , <b>2019</b> , 39-56	0.6	