

# Iasson Karafyllis

## List of Publications by Year in Descending Order

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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	Spill-Free Transfer and Stabilization of Viscous Liquid. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	0
97	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
96	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
95	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
94	Sampled-data observers for delay systems and hyperbolic PDE loops. <i>Automatica</i> , <b>2021</b> , 123, 109349	5.7	1
93	Lyapunov-based boundary feedback design for parabolic PDEs. <i>International Journal of Control</i> , <b>2021</b> , 94, 1247-1260	1.5	7
92	Lane-Free Artificial-Fluid Concept for Vehicular Traffic. <i>Proceedings of the IEEE</i> , <b>2021</b> , 109, 114-121	14.3	10
91	Lyapunov conditions for uniform asymptotic output stability and a relaxation of Barbălat's lemma. <i>Automatica</i> , <b>2021</b> , 132, 109792	5.7	1
90	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
89	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
88	A note on sampled-data observers. <i>Systems and Control Letters</i> , <b>2020</b> , 144, 104760	2.4	5
87	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
86	Stability results for the continuity equation. <i>Systems and Control Letters</i> , <b>2020</b> , 135, 104594	2.4	3
85	Event-triggered boundary control of constant-parameter reaction-diffusion PDEs: a small-gain approach <b>2020</b> ,		7
84	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
83	Adaptive Control by Regulation-Triggered Batch Least Squares. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 2842-2855	5.9	8
82	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

81	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
80	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
79	Parabolic-Hyperbolic PDE Loops. <i>Communications and Control Engineering</i> , <b>2019</b> , 263-283	0.6	
78	Existence/Uniqueness Results for Hyperbolic PDEs. <i>Communications and Control Engineering</i> , <b>2019</b> , 19-38	0.6	
77	ISS in Spatial Lp Norms for Hyperbolic PDEs. <i>Communications and Control Engineering</i> , <b>2019</b> , 39-56	0.6	
76	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
75	Wave Equations With Kelvin-Voigt Damping and Boundary Disturbance: A Study of the Asymptotic Gain Properties <b>2019</b> ,		2
74	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
73	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
72	. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 3647-3662	5.9	17
71	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
70	Global exponential stabilisation of acyclic traffic networks. <i>International Journal of Control</i> , <b>2019</b> , 92, 564-584	1.5	8
69	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
68	Yield trajectory tracking for hyperbolic age-structured population systems. <i>Automatica</i> , <b>2018</b> , 90, 138-146	5.7	5
67	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
66	Sampled-data boundary feedback control of 1-D parabolic PDEs. <i>Automatica</i> , <b>2018</b> , 87, 226-237	5.7	72
65	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
64	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

63	. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 6195-6208	5.9	8
62	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
61	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
60	An adaptive control scheme for local and coordinated ramp metering <b>2017</b> ,		1
59	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
58	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
57	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
56	Global exponential stabilization of freeway models. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 1184-1210	3.6	9
55	Input-to state stability with respect to boundary disturbances for the 1-D heat equation <b>2016</b> ,		9
54	Nonlinear adaptive control scheme for discrete-time systems with application to freeway traffic flow networks <b>2016</b> ,		1
53	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
52	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
51	Sampled-data feedback stabilization of age-structured chemostat models <b>2015</b> ,		4
50	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
49	Numerical schemes for nonlinear predictor feedback. <i>Mathematics of Control, Signals, and Systems</i> , <b>2014</b> , 26, 519-546	1.3	36
48	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
47	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
46	Delay-robustness of linear predictor feedback without restriction on delay rate. <i>Automatica</i> , <b>2013</b> , 49, 1761-1767	5.7	60

45	Stabilization of nonlinear delay systems using approximate predictors and high-gain observers. <i>Automatica</i> , <b>2013</b> , 49, 3623-3631	5.7	63
44	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
43	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
42	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
41	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
40	Reduced order dead-beat observers for the chemostat. <i>Nonlinear Analysis: Real World Applications</i> , <b>2013</b> , 14, 340-351	2.1	5
39	Global exponential observers for two classes of nonlinear systems. <i>Systems and Control Letters</i> , <b>2012</b> , 61, 797-806	2.4	22
38	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
37	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
36	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
35	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
34	Stability and Stabilization of Nonlinear Systems. <i>Communications and Control Engineering</i> , <b>2011</b> ,	0.6	145
33	Nonlinear stabilization under sampled and delayed measurements, and with inputs subject to delay and zero-order hold <b>2011</b> ,		1
32	Hybrid dead-beat observers for a class of nonlinear systems. <i>Systems and Control Letters</i> , <b>2011</b> , 60, 608-617	2.1	14
31	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
30	Nash equilibrium and robust stability in dynamic games: A small-gain perspective <b>2010</b> ,		1
29	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
28	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

27	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
26	A vector Small-Gain Theorem for general nonlinear control systems <b>2009</b> ,		14
25	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
24	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
23	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
22	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 <sup>1.3</sup>		51
21	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
20	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
19	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
18	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
17	Control Lyapunov Functionals and robust stabilization of nonlinear time-delay systems <b>2008</b> ,		7
16	From continuous-time design to sampled-data design of nonlinear observers <b>2008</b> ,		1
15	Price stabilization using buffer stocks. <i>Journal of Economic Dynamics and Control</i> , <b>2008</b> , 32, 1212-1235	1.3	12
14	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
13	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
12	Global stability results for systems under sampled-data control <b>2007</b> ,		3
11	Stability results for systems described by retarded functional differential equations <b>2007</b> ,		3
10	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

9	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
8	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
7	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
6	Non-uniform in time robust global asymptotic output stability. <i>Systems and Control Letters</i> , <b>2005</b> , 54, 181-193	2.4	21
5	Robust output feedback stabilization and nonlinear observer design. <i>Systems and Control Letters</i> , <b>2005</b> , 54, 925-938	2.4	27
4	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
3	Control of hot spots in plug flow reactors. <i>Computers and Chemical Engineering</i> , <b>2002</b> , 26, 1087-1094	4	29
2	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
1	Nonlinear adaptive cruise control of vehicular platoons. <i>International Journal of Control</i> , 1-23	1.5	1