

# Santiago Alonso-Quesada

## List of Publications by Year in descending order

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citations

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87  
docs citations

87  
times ranked

332  
citing authors

#	ARTICLE	IF	CITATIONS
1	On vaccination controls for the SEIR epidemic model. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 2637-2658.	3.3	57
2	Control issues for the Beverton-Holt equation in ecology by locally monitoring the environment carrying capacity: Non-adaptive and adaptive cases. Applied Mathematics and Computation, 2009, 215, 2616-2633.	2.2	53
3	Robustly stable multiestimation scheme for adaptive control and identification with model reduction issues. Discrete Dynamics in Nature and Society, 2005, 2005, 31-67.	0.9	49
4	A Control Theory point of view on Beverton-Holt equation in population dynamics and some of its generalizations. Applied Mathematics and Computation, 2008, 199, 464-481.	2.2	47
5	Model-Matching-Based Control of the Beverton-Holt Equation in Ecology. Discrete Dynamics in Nature and Society, 2008, 2008, 1-21.	0.9	33
6	An observer-based vaccination control law for an SEIR epidemic model based on feedback linearization techniques for nonlinear systems. Advances in Difference Equations, 2012, 2012, .	3.5	27
7	Feedback linearization-based vaccination control strategies for true-mass action type SEIR epidemic models. Nonlinear Analysis: Modelling and Control, 2011, 16, 283-314.	1.6	27
8	Stable multi-estimation model for single-input single-output discrete adaptive control systems. International Journal of Systems Science, 2004, 35, 479-501.	5.5	24
9	Model matching via multirate sampling with fast sampled input guaranteeing the stability of the plant zeros: extensions to adaptive control. IET Control Theory and Applications, 2007, 1, 210-225.	2.1	24
10	Stability analysis and observer design for discrete-time SEIR epidemic models. Advances in Difference Equations, 2015, 2015, .	3.5	24
11	Robust Sliding Control of SEIR Epidemic Models. Mathematical Problems in Engineering, 2014, 2014, 1-11.	1.1	23
12	On an SEIR Epidemic Model with Vaccination of Newborns and Periodic Impulsive Vaccination with Eventual On-Line Adapted Vaccination Strategies to the Varying Levels of the Susceptible Subpopulation. Applied Sciences (Switzerland), 2020, 10, 8296.	2.5	23
13	On a SIR Model in a Patchy Environment Under Constant and Feedback Decentralized Controls with Asymmetric Parameterizations. Symmetry, 2019, 11, 430.	2.2	21
14	Robust adaptive control of discrete nominally stabilizable plants. Applied Mathematics and Computation, 2004, 150, 555-583.	2.2	17
15	On a New Discrete SEIADR Model with Mixed Controls: Study of Its Properties. Mathematics, 2019, 7, 18.	2.2	17
16	Robust adaptive regulation of potentially inversely unstable first-order hybrid systems. Journal of the Franklin Institute, 1999, 336, 627-648.	3.4	13
17	On the Stability and Equilibrium Points of Multistaged $S \leq l < n < T_j \text{ ETQq1 } 1 \text{ } 0.784314 \text{ rgBT /Overlock } 10 \text{ Tf } 50 \text{ } 92 \text{ Td}$	0.9	13
18	Some Formal Results on Positivity, Stability, and Endemic Steady-State Attainability Based on Linear Algebraic Tools for a Class of Epidemic Models with Eventual Incommensurate Delays. Discrete Dynamics in Nature and Society, 2019, 2019, 1-22.	0.9	13

#	ARTICLE	IF	CITATIONS
19	On a Discrete SEIR Epidemic Model with Two-Doses Delayed Feedback Vaccination Control on the Susceptible. Vaccines, 2021, 9, 398.	4.4	13
20	On the Equilibrium Points, Boundedness and Positivity of a Sveirs Epidemic Model under Constant Regular Constrained Vaccination. Informatica, 2011, 22, 339-370.	2.7	12
21	A stable multimodel scheme control for the regulation of the transient behavior of a tunnel-diode trigger circuit. ISA Transactions, 2007, 46, 313-326.	5.7	11
22	On vaccination control tools for a general SEIR-epidemic model. , 2010, , .		11
23	Sliding mode robust control of SEIR epidemic models. , 2013, , .		11
24	A Feedback Control Loop Optimisation Methodology for Floating Offshore Wind Turbines. Energies, 2019, 12, 3490.	3.1	9
25	On a Discrete SEIR Epidemic Model with Exposed Infectivity, Feedback Vaccination and Partial Delayed Re-Susceptibility. Mathematics, 2021, 9, 520.	2.2	9
26	A Study on COVID-19 Incidence in Europe through Two SEIR Epidemic Models Which Consider Mixed Contagions from Asymptomatic and Symptomatic Individuals. Applied Sciences (Switzerland), 2021, 11, 6266.	2.5	9
27	Observer design for SEIR discrete-time epidemic models. , 2014, , .		8
28	A Tunnel-diode Trigger Circuit Using a Regulation Multimodel Scheme. , 2006, , .		7
29	On a generalized SVEIR epidemic model under regular and adaptive impulsive vaccination. Nonlinear Analysis: Modelling and Control, 2014, 19, 83-108.	1.6	7
30	Intelligent Control of Discrete Linear Systems Based on a Supervised Adaptive Multiestimation Scheme. Journal of Intelligent and Robotic Systems: Theory and Applications, 2004, 40, 359-411.	3.4	6
31	Adaptive control of time-invariant systems with discrete delays subject to multiestimation. Discrete Dynamics in Nature and Society, 2006, 2006, 1-27.	0.9	6
32	A vaccination strategy based on linearization control techniques for fighting against epidemic diseases propagation. Advances in Difference Equations, 2013, 2013, .	3.5	6
33	A Modelization of the Propagation of COVID-19 in Regions of Spain and Italy with Evaluation of the Transmission Rates Related to the Intervention Measures. Biology, 2021, 10, 121.	2.8	6
34	MULTIMODEL DISCRETE CONTROL WITH ONLINE UPDATING OF THE FRACTIONAL ORDER HOLD GAINS. Cybernetics and Systems, 2007, 38, 249-274.	2.5	5
35	A time-varying SIS epidemic model with incidence rate depending on the susceptible and infective populations with eventual impulsive effects. Applied Mathematics and Computation, 2013, 219, 5516-5536.	2.2	5
36	On finite-time consensus objectives in time-varying interconnected discrete linear dynamic systems under internal and external delays. Advances in Mechanical Engineering, 2018, 10, 168781401878484.	1.6	5

#	ARTICLE	IF	CITATIONS
37	An SIRS Epidemic Model Supervised by a Control System for Vaccination and Treatment Actions Which Involve First-Order Dynamics and Vaccination of Newborns. <i>Mathematics</i> , 2022, 10, 36.	2.2	5
38	On a root locus-based analysis of the limiting zeros of plants of nominal order at most two under FROH-discretization. , 0, , .		4
39	Adaptive Control for Stabilizing Nonnecessarily Inversely Stable Plants by Using Multiple Estimation Models with Multirate Input and Fractional-Order Holds. , 2006, , .		4
40	A multiestimation-based scheme for modelling single-inputâ€“single-output discrete adaptive control systems. <i>Applied Mathematical Modelling</i> , 2006, 30, 765-798.	4.2	4
41	Alternative linearisation methodology for aero-elastic Floating Offshore Wind Turbine non-linear models. <i>Journal of Physics: Conference Series</i> , 2018, 1037, 062019.	0.4	4
42	On Vaccination Strategies for a SISV Epidemic Model Guaranteeing the Nonexistence of Endemic Solutions. <i>Discrete Dynamics in Nature and Society</i> , 2018, 2018, 1-20.	0.9	4
43	Using Multiple Fidelity Numerical Models for Floating Offshore Wind Turbine Advanced Control Design. <i>Energies</i> , 2018, 11, 2484.	3.1	4
44	Adaptive control for stabilizing possibly inversely unstable continuous-time plants by using multirate input and fractional-order holds. , 2006, , .		3
45	Identification and control of delayed unstable and integrative LTI MIMO systems using pattern search methods. <i>Advances in Difference Equations</i> , 2013, 2013, .	3.5	3
46	Adaptive control of SEIR discrete-time epidemic models. , 2014, , .		3
47	A Supervised Multi-control for Monitoring the Antiviral Treatment Strategy for an SEIADR Epidemic Model. , 2018, , .		3
48	Robust adaptive stabilizer of a class of time-varying plants using multiple controllers. <i>Mathematics and Computers in Simulation</i> , 2003, 63, 15-34.	4.4	2
49	A new approach to the study of controlled systems. <i>Kybernetes</i> , 2008, 37, 801-826.	2.2	2
50	Some equilibrium, stability, instability and oscillatory results for an extended discrete epidemic model with evolution memory. <i>Advances in Difference Equations</i> , 2013, 2013, .	3.5	2
51	Asymptotic Hyperstability of a Class of Linear Systems under Impulsive Controls Subject to an Integral Popovian Constraint. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-14.	0.7	2
52	A New Epidemic Model Under Vaccination. , 2019, , .		2
53	On the Properties of a Class of Impulsive Competition Bevertonâ€“Holt Equations. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9020.	2.5	2
54	On the Supervision of a Saturated SIR Epidemic Model with Four Joint Control Actions for a Drastic Reduction in the Infection and the Susceptibility through Time. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1512.	2.6	2

#	ARTICLE	IF	CITATIONS
55	Adaptive stabilizability and robustness under the presence of unmodeled dynamics of non necessarily controllable continuous-time systems. , 0, , .		1
56	Discrete multiestimation adaptive control with model reduction. , 0, , .		1
57	A Semiempirical Reduced-Order Identification Modeling Tool for Partially Unknown Discrete-Time Plants by using a Multi-Estimation Scheme. Instrumentation Science and Technology, 2007, 35, 419-436.	1.8	1
58	The Beverton-Holt equation from a Control Theory point of view. , 2008, , .		1
59	Periodic equilibrium states in a SEIR mathematical model of an infectious non-lethal disease. , 2013, , .		1
60	A nonlinear SEIR epidemic model with feedback vaccination control. , 2014, , .		1
61	On a new model for Ebola disease. , 2016, , .		1
62	Parameter Estimation of Multi-Staged SI(n)RS Epidemic Models. , 2018, , .		1
63	A Blade Load Feedback Control For Floating Offshore Wind Turbines. Journal of Physics: Conference Series, 2019, 1222, 012014.	0.4	1
64	Supervision of the Infection in an SI (SI-RC) Epidemic Model by Using a Test Loss Function to Update the Vaccination and Treatment Controls. Applied Sciences (Switzerland), 2020, 10, 7183.	2.5	1
65	On the Reachability of a Feedback Controlled Leontief-Type Singular Model Involving Scheduled Production, Recycling and Non-Renewable Resources. Mathematics, 2021, 9, 2175.	2.2	1
66	Robust adaptive pole placement of first-order potentially inversely unstable continuous-time systems. , 0, , .		0
67	Discrete multiestimation-based robust adaptive control using an estimation dead zone and model order-reduction. , 0, , .		0
68	A supervised discrete adaptive control scheme with multiestimation. Communications in Nonlinear Science and Numerical Simulation, 2005, 10, 797-822.	3.3	0
69	A multimodel scheme control for a tunnel-diode trigger circuit. , 2006, , .		0
70	Multiestimation based discrete adaptive control of LTI continuous plants with unknown bounded external time delays. , 2006, , .		0
71	A robust multiestimation based stable adaptive control scheme for a tandem of master-slave robotic manipulators with force reflection. , 2006, , .		0
72	A multiestimation discrete-time adaptive control with multirate sampling and supervision of the hold gain. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
73	About the Maximum Transfer of Power in Time-Varying Linear Circuits. Advanced Materials Research, 0, 629, 894-899.	0.3	0
74	About feedback vaccination rules for a true-mass action-type SEIR epidemic model. , 2012, , .		0
75	Hyperstability analysis of switched systems subject to integral popovian constraints. , 2013, , .		0
76	A SIS epidemic model with impulsive vaccination. , 2013, , .		0
77	About the power transfer in linear time-varying circuits. , 2013, , .		0
78	A SIS Epidemic Model with Eventual Impulsive Effects. Applied Mechanics and Materials, 0, 393, 666-674.	0.2	0
79	Stabilization and Optimal Quadratic Regulation of Linear Time-Invariant Discrete Systems with Data Dropout Compensation. Advanced Materials Research, 0, 816-817, 574-582.	0.3	0
80	On Controllability and Output-Controllability of a Class of Remote Learning Discrete Control Systems with Data Dropout Compensation. Applied Mechanics and Materials, 2013, 391, 424-432.	0.2	0
81	Partial stability of controlled SEIR epidemic models. , 2013, , .		0
82	A data dropout compensation system based on iterative learning control techniques. , 2014, , .		0
83	Partial stability-based vaccination control of SEIR epidemic models. , 2015, , .		0
84	Equilibrium, stability and discretization of some basic epidemic models. , 2016, , .		0
85	On some properties of a nonlinear delay integral equation used in epidemiology. , 2016, , .		0
86	Supervised Multi-Control Strategies for an SEIADR Epidemic Model. , 2018, , .		0
87	A VACCINATION CONTROL LAW BASED ON FEEDBACK LINEARIZATION TECHNIQUES FOR SEIR EPIDEMIC MODELS. , 2012, , .		0