

# Hernan Haimovich

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Differentiator for Noisy Sampled Signals With Best Worst-Case Accuracy. , 2022, 6, 938-943.		2
2	Generalized Super-Twisting for Control Under Time- and State-Dependent Perturbations: Breaking the Algebraic Loop. IEEE Transactions on Automatic Control, 2022, , 1-8.	5.7	2
3	Semiglobal exponential input-to-state stability of sampled-data systems based on approximate discrete-time models. Automatica, 2021, 131, 109742.	5.0	2
4	Robust exact differentiators with predefined convergence time. Automatica, 2021, 134, 109858.	5.0	31
5	(Integral-)ISS of switched and time-varying impulsive systems based on global state weak linearization. IEEE Transactions on Automatic Control, 2021, , 1-1.	5.7	1
6	Strong ISS implies strong iISS for time-varying impulsive systems. Automatica, 2020, 122, 109224.	5.0	14
7	Nonrobustness of asymptotic stability of impulsive systems with inputs. Automatica, 2020, 122, 109238.	5.0	5
8	Uniform stability of nonlinear time-varying impulsive systems with eventually uniformly bounded impulse frequency. Nonlinear Analysis: Hybrid Systems, 2020, 38, 100933.	3.5	40
9	Converging-Input Convergent-State and Related Properties of Time-Varying Impulsive Systems. , 2020, 4, 680-685.		2
10	Uniform Input-To-State Stability for Switched and Time-Varying Impulsive Systems. IEEE Transactions on Automatic Control, 2020, 65, 5028-5042.	5.7	28
11	State Measurement Error-to-State Stability Results Based on Approximate Discrete-Time Models. IEEE Transactions on Automatic Control, 2019, 64, 3308-3315.	5.7	4
12	ISS implies iISS even for switched and time-varying systems (if you are careful enough). Automatica, 2019, 104, 154-164.	5.0	20
13	A characterization of strong iISS for time-varying impulsive systems. , 2019, , .		4
14	Disturbance-tailored super-twisting algorithms: Properties and design framework. Automatica, 2019, 101, 318-329.	5.0	14
15	A Characterization of Integral ISS for Switched and Time-Varying Systems. IEEE Transactions on Automatic Control, 2018, 63, 578-585.	5.7	13
16	A Characterization of iISS for Time-Varying Impulsive Systems. , 2018, , .		4
17	Characterization of semiglobal stability properties for discrete-time models of non-uniformly sampled nonlinear systems. Systems and Control Letters, 2018, 122, 60-66.	2.3	4
18	On zero-input stability inheritance for time-varying systems with decaying-to-zero input power. Systems and Control Letters, 2017, 104, 31-37.	2.3	3

#	ARTICLE	IF	CITATIONS
19	Global Stability Results for Switched Systems Based on Weak Lyapunov Functions. IEEE Transactions on Automatic Control, 2017, 62, 2764-2777.	5.7	22
20	Equivalence between uniform- and varying-sampling stability properties for discrete-time exact and approximate models. , 2017, , .		2
21	Ideal switched-model dynamic stability conditions for semi-quasi-Z-source inverters. Automatica, 2016, 63, 47-59.	5.0	9
22	On controller-driven varying-sampling-rate stabilization via Lie-algebraic solvability. Nonlinear Analysis: Hybrid Systems, 2013, 7, 28-38.	3.5	8