

George Weiss

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6952628/publications.pdf>

Version: 2024-02-01

52
papers

2,352
citations

279798

23
h-index

206112

48
g-index

52
all docs

52
docs citations

52
times ranked

990
citing authors

#	ARTICLE	IF	CITATIONS
1	Admissible observation operators for linear semigroups. Israel Journal of Mathematics, 1989, 65, 17-43.	0.8	291
2	Regular linear systems with feedback. Mathematics of Control, Signals, and Systems, 1994, 7, 23-57.	2.3	235
3	Internal model based tracking and disturbance rejection for stable well-posed systems. Automatica, 2003, 39, 1555-1569.	5.0	194
4	Repetitive control of MIMO systems using H^∞ design. Automatica, 1999, 35, 1185-1199.	5.0	170
5	Wave energy converter control by wave prediction and dynamic programming. Renewable Energy, 2012, 48, 392-403.	8.9	136
6	Synchronverters With Better Stability Due to Virtual Inductors, Virtual Capacitors, and Anti-Windup. IEEE Transactions on Industrial Electronics, 2017, 64, 5994-6004.	7.9	130
7	Well-posed systems – The LTI case and beyond. Automatica, 2014, 50, 1757-1779.	5.0	86
8	Optimal control of stable weakly regular linear systems. Mathematics of Control, Signals, and Systems, 1997, 10, 287-330.	2.3	81
9	Recovering the initial state of an infinite-dimensional system using observers. Automatica, 2010, 46, 1616-1625.	5.0	80
10	Increasing Voltage Utilization in Split-Link, Four-Wire Inverters. IEEE Transactions on Power Electronics, 2009, 24, 1562-1569.	7.9	77
11	How to get a conservative well-posed linear system out of thin air. Part I. Well-posedness and energy balance. ESAIM - Control, Optimisation and Calculus of Variations, 2003, 9, 247-273.	1.3	75
12	Admissibility of input elements for diagonal semigroups on. Systems and Control Letters, 1988, 10, 79-82.	2.3	55
13	New results on the operator Carleson measure criterion. IMA Journal of Mathematical Control and Information, 1997, 14, 3-32.	1.7	53
14	Weak L_p -stability of a linear semigroup on a Hilbert space implies exponential stability. Journal of Differential Equations, 1988, 76, 269-285.	2.2	47
15	When is a linear system conservative?. Quarterly of Applied Mathematics, 2006, 64, 61-91.	0.7	47
16	Tracking and disturbance rejection for fully actuated mechanical systems. Automatica, 2008, 44, 2863-2868.	5.0	45
17	Coprime factorization for regular linear systems. Automatica, 1996, 32, 1519-1531.	5.0	41
18	The operator Carleson measure criterion for admissibility of control operators for diagonal semigroups on. Systems and Control Letters, 1991, 16, 219-227.	2.3	32

#	ARTICLE	IF	CITATIONS
19	Transfer Functions of Regular Linear Systems Part III: Inversions and Duality. Integral Equations and Operator Theory, 2004, 49, 517.	0.8	31
20	An example in linear quadratic optimal control. Systems and Control Letters, 1998, 33, 339-349.	2.3	30
21	A unified Smith predictor based on the spectral decomposition of the plant. International Journal of Control, 2004, 77, 1362-1371.	1.9	29
22	The virtual infinite capacitor. International Journal of Control, 2017, 90, 78-89.	1.9	25
23	Necessary conditions for exact controllability with a finite-dimensional input space. Systems and Control Letters, 2000, 40, 217-227.	2.3	24
24	Exponential Stabilization of a Rayleigh Beam Using Collocated Control. IEEE Transactions on Automatic Control, 2008, 53, 643-654.	5.7	23
25	State Convergence of Passive Nonlinear Systems With an L^2 Input. IEEE Transactions on Automatic Control, 2009, 54, 1723-1727.	5.7	23
26	Admissible Observation Operators for the Right-Shift Semigroup. Mathematics of Control, Signals, and Systems, 2000, 13, 179-192.	2.3	21
27	Suppression of the vibrations of wind turbine towers. IMA Journal of Mathematical Control and Information, 2011, 28, 377-389.	1.7	20
28	The resolvent growth assumption for semigroups on Hilbert spaces. Journal of Mathematical Analysis and Applications, 1990, 145, 154-171.	1.0	17
29	A stability theorem for networks containing synchronous generators. Systems and Control Letters, 2019, 134, 104561.	2.3	17
30	Well-posedness and controllability of a wind turbine tower model. IMA Journal of Mathematical Control and Information, 2011, 28, 103-119.	1.7	16
31	The Low-Frequency Distortion in D-Class Amplifiers. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 772-776.	3.0	15
32	Optimal control of systems with a unitary semigroup and with colocated control and observation. Systems and Control Letters, 2003, 48, 329-340.	2.3	14
33	Well-posedness, regularity and exact controllability of the SCOLE model. Mathematics of Control, Signals, and Systems, 2010, 22, 91-127.	2.3	14
34	Time-varying additive perturbations of well-posed linear systems. Mathematics of Control, Signals, and Systems, 2015, 27, 149-185.	2.3	14
35	Two classes of passive time-varying well-posed linear systems. Mathematics of Control, Signals, and Systems, 2010, 21, 265-301.	2.3	13
36	Stabilization of a fluid-rigid body system. Journal of Differential Equations, 2015, 259, 6459-6493.	2.2	12

#	ARTICLE	IF	CITATIONS
37	An Indirect Approach to Control an Active Capacitor. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2898-2906.	5.4	12
38	The Sensitivity of Grid-Connected Synchronverters With Respect to Measurement Errors. IEEE Access, 2021, 9, 118985-118995.	4.2	12
39	Spectral properties of infinite-dimensional closed-loop systems. Mathematics of Control, Signals, and Systems, 2005, 17, 153-172.	2.3	11
40	Plug-and-Play Control of the Virtual Infinite Capacitor. IEEE Transactions on Power Electronics, 2020, 35, 1947-1956.	7.9	11
41	Weakly p -stable linear operators are power stable. International Journal of Systems Science, 1989, 20, 2323-2328.	5.5	10
42	Approximating signals by fast impulse sampling. Mathematics of Control, Signals, and Systems, 1993, 6, 166-179.	2.3	10
43	The iISS Property for Globally Asymptotically Stable and Passive Nonlinear Systems. IEEE Transactions on Automatic Control, 2008, 53, 1947-1951.	5.7	9
44	From exact observability to identification of singular sources. Mathematics of Control, Signals, and Systems, 2015, 27, 1-21.	2.3	9
45	Stability Properties of Coupled Impedance Passive LTI Systems. IEEE Transactions on Automatic Control, 2017, 62, 5769-5779.	5.7	8
46	Integral control of stable nonlinear systems based on singular perturbations. IFAC-PapersOnLine, 2020, 53, 6157-6164.	0.9	7
47	The Parallel Virtual Infinite Capacitor Applied to DC-Link Voltage Filtering for Wind Turbines. Energies, 2018, 11, 1649.	3.1	5
48	Exact controllability of a class of nonlinear distributed parameter systems using back-and-forth iterations. International Journal of Control, 2019, 92, 145-162.	1.9	4
49	Minimal order controllers for output regulation of nonlinear systems. IFAC Journal of Systems and Control, 2019, 7, 100028.	1.7	3
50	The Modular Active Capacitor for High Power Ripple Attenuation. CPSS Transactions on Power Electronics and Applications, 2021, 6, 251-262.	4.4	3
51	Non-linear damping for scattering-passive systems in the Maxwell class. IFAC-PapersOnLine, 2020, 53, 7458-7465.	0.9	3
52	Strong stabilization of (almost) impedance passive systems by static output feedback. Mathematical Control and Related Fields, 2019, 9, 643-671.	1.1	2