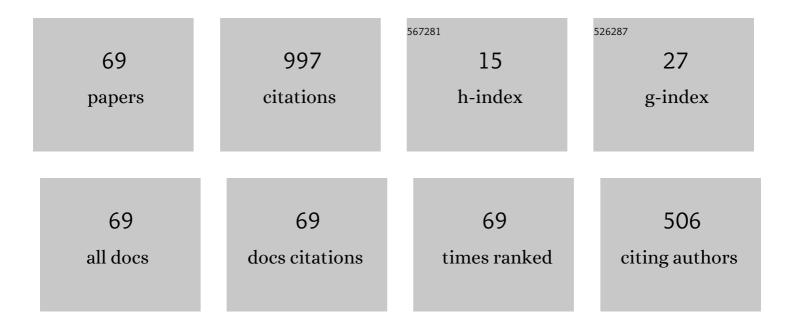
Christian Ebenbauer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	ISS-like properties in Lie-bracket approximations and application to extremum seeking. Automatica, 2022, 136, 110041.	5.0	6
2	Robust and structure exploiting optimisation algorithms: an integral quadratic constraint approach. International Journal of Control, 2021, 94, 2956-2979.	1.9	30
3	Extremum seeking control of nonlinear dynamic systems using Lie bracket approximations. International Journal of Adaptive Control and Signal Processing, 2021, 35, 1233-1255.	4.1	9
4	Anytime MHE-based output feedback MPC. IFAC-PapersOnLine, 2021, 54, 264-271.	0.9	2
5	Proximity Moving Horizon Estimation for Discrete-Time Nonlinear Systems. , 2021, , .		Ο
6	Relaxed Barrier MPC for Path Following in Constrained Environments. , 2021, , .		0
7	Proximity Moving Horizon Estimation for Discrete-Time Nonlinear Systems. , 2021, 5, 2090-2095.		6
8	A Note on Nussbaum-type Control and Lie-bracket Approximation. , 2021, , .		1
9	Sparsity-Exploiting Anytime Algorithms for Model Predictive Control: A Relaxed Barrier Approach. IEEE Transactions on Control Systems Technology, 2020, 28, 425-435.	5.2	4
10	A Lie bracket approximation approach to distributed optimization over directed graphs. Automatica, 2020, 112, 108691.	5.0	4
11	Online learning with stability guarantees: A memory-based warm starting for real-time MPC. Automatica, 2020, 122, 109247.	5.0	6
12	A proximity moving horizon estimator for a class of nonlinear systems. International Journal of Adaptive Control and Signal Processing, 2020, 34, 721-742.	4.1	6
13	An iteration scheme with stability guarantees for proximity moving horizon estimation. , 2020, , .		1
14	A proximity moving horizon estimator based on Bregman distances and relaxed barrier functions. , 2019, , .		4
15	Newton-based extremum seeking: A second-order Lie bracket approximation approach. Automatica, 2019, 105, 356-367.	5.0	24
16	Proximity moving horizon estimation for linear time-varying systems and a Bayesian filtering view. , 2019, , .		5
17	Extremum Seeking Algorithms based on Non-Commutative Maps. IFAC-PapersOnLine, 2019, 52, 688-693.	0.9	3
18	Robust Optimal Power Flow for Mixed AC/DC Transmission Systems With Volatile Renewables. IEEE Transactions on Power Systems, 2018, 33, 5171-5182.	6.5	21

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#	Article	IF	CITATIONS
19	On extremum seeking controllers based on the Lie bracket approximation in domains with obstacles. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800298.	0.2	4
20	Characterizing the learning dynamics in extremum seeking: The role of gradient averaging and non-convexity. , 2018, , .		3
21	Gradient-Based Extremum Seeking: Performance Tuning via Lie Bracket Approximations. , 2018, , .		3
22	A family of extremum seeking laws for a unicycle model with a moving target: theoretical and experimental studies. , 2018, , .		4
23	A novel scheme for output definition in feedback passivation of nonlinear systems. International Journal of Systems Science, 2018, 49, 3196-3201.	5.5	4
24	Parameter Tuning and Optimal Design of Decentralized Structured Controllers for Power Oscillation Damping in Electrical Networks. , 2018, , .		5
25	Derivative-Free Optimization Algorithms Based on Non-Commutative Maps. , 2018, 2, 743-748.		8
26	On a class of generating vector fields for the extremum seeking problem: Lie bracket approximation and stability properties. Automatica, 2018, 94, 151-160.	5.0	68
27	Relaxed Logarithmic Barrier Function Based Model Predictive Control of Linear Systems. IEEE Transactions on Automatic Control, 2017, 62, 1223-1238.	5.7	36
28	A new approach for minimum phase output definition. International Journal of Systems Science, 2017, 48, 264-271.	5.5	8
29	Iterative Learning and Extremum Seeking for Repetitive Time-Varying Mappings. IEEE Transactions on Automatic Control, 2017, 62, 3339-3353.	5.7	15
30	Extremum seeking for dynamic maps using Lie brackets and singular perturbations. Automatica, 2017, 83, 91-99.	5.0	35
31	A stabilizing iteration scheme for model predictive control based on relaxed barrier functions. Automatica, 2017, 80, 328-339.	5.0	29
32	Extremum Seeking for Time-Varying Functions using Lie Bracket Approximations * *This work is supported in part by the Alexander von Humboldt Foundation, the Deutsche Forschungsgemeinschaft (EB 425/4-1), and the State Fund for Fundamental Research of Ukraine (F63-726) IFAC-PapersOnLine, 2017, 50, 5522-5528.	0.9	16
33	Distributed Optimization over Directed Graphs with the help of Lie Brackets. IFAC-PapersOnLine, 2017, 50, 15343-15348.	0.9	8
34	Distributed extremum seeking over directed graphs. , 2017, , .		6
35	A first step toward moving horizon state estimation based on relaxed logarithmic barrier functions. , 2017, , .		5

Robust stability properties of MPC iteration schemes based on relaxed barrier functions. , 2016, , .

#	Article	IF	CITATIONS
37	Extremum control of linear systems based on output feedback. , 2016, , .		8
38	Gradient approximation and extremum seeking via needle variations. , 2016, , .		2
39	Multi-Agent Coordination with Lagrangian Measurements**This work was supported in part by the Alexander von Humboldt Foundation IFAC-PapersOnLine, 2016, 49, 115-120.	0.9	11
40	Ensemble Observability of Linear Systems. IEEE Transactions on Automatic Control, 2016, 61, 1452-1465.	5.7	40
41	Extremum Seeking with Drifta —a —All authors thank the German Research Foundation (DFG) for financial support of the project within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart. Hans-Bernd Dürr and Christian Ebenbauer are additionally supported by the German Research Foundation (DFG) within the Emmy-Noether-Grant "Novel Ways in Control and	0.9	2
42	Singularly Perturbed Lie Bracket Approximation. IEEE Transactions on Automatic Control, 2015, 60, 3287-3292.	5.7	19
43	Weight recentered barrier functions and smooth polytopic terminal set formulations for linear model predictive control. , 2015, , .		18
44	Model-based extremum seeking for a class of nonlinear systems. , 2015, , .		8
45	A Hessenberg–Jacobi isospectral flow. Nonlinear Differential Equations and Applications, 2015, 22, 87-103.	0.8	2
46	Barrier function based linear model predictive control with polytopic terminal sets. , 2014, , .		5
47	The multidimensional n-th order heavy ball method and its application to extremum seeking. , 2014, , .		14
48	Output Regulation for Control Systems on <inline-formula> <tex-math notation="TeX">\$SE(n)\$</tex-math </inline-formula> : A Separation Principle Based Approach. IEEE Transactions on Automatic Control, 2014, 59, 3057-3062.	5.7	7
49	Extremum seeking on submanifolds in the Euclidian space. Automatica, 2014, 50, 2591-2596.	5.0	23
50	Extremum Seeking and Obstacle Avoidance on the Special Orthogonal Group. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8229-8234.	0.4	5
51	Examples of distance-based synchronization: An extremum seeking approach. , 2013, , .		3
52	Lie bracket approximation of extremum seeking systems. Automatica, 2013, 49, 1538-1552.	5.0	161
53	Obstacle avoidance for an extremum seeking system using a navigation function. , 2013, , .		12

54 Output regulation for attitude control: A global approach. , 2013, , .

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#	Article	IF	CITATIONS
55	Swinging up the Stephenson-Kapitza pendulum. , 2013, , .		17
56	Saddle Point Seeking for Convex Optimization Problems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 540-545.	0.4	30
57	A barrier function based continuous-time algorithm for linear model predictive control. , 2013, , .		9
58	A solution for a class of output regulation problems on SO(n). , 2012, , .		7
59	A smooth vector field for quadratic programming. , 2012, , .		14
60	Feedback design for multi-agent systems: A saddle point approach. , 2012, , .		27
61	Observability properties of the periodic Toda lattice. , 2011, , .		0
62	A smooth vector field for saddle point problems. , 2011, , .		21
63	Locating omega-limit sets using height functions. Journal of Differential Equations, 2010, 248, 2458-2469.	2.2	26
64	Synchronization conditions for Lyapunov oscillators. , 2010, , .		0
65	Refining LaSalle's invariance principle. , 2009, , .		15
66	On an eigenflow equation and its structure preserving properties. , 2009, , .		1
67	A dynamical system that computes eigenvalues and diagonalizes matrices with a real spectrum. , 2007, , \cdot		4
68	Analysis and design of polynomial control systems using dissipation inequalities and sum of squares. Computers and Chemical Engineering, 2006, 30, 1590-1602.	3.8	87
69	Passivity-based Feedback Design for Polynomial Control Systems (PassivitAtsbasierter Reglerentwurf) Tj ETQq1 🕻	1 0,78431	4 rgBT /Overlc