

# Dirk Aeyels

## List of Publications by Year in descending order

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43  
papers

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430754

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43  
docs citations

43  
times ranked

495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilization of a class of nonlinear systems by a smooth feedback control. Systems and Control Letters, 1985, 5, 289-294.	1.3	260
2	Comments on the stabilizability of the angular velocity of a rigid body. Systems and Control Letters, 1988, 10, 35-39.	1.3	111
3	Semi-global practical asymptotic stability and averaging. Systems and Control Letters, 1999, 37, 329-334.	1.3	98
4	On exponential stability of nonlinear time-varying differential equations. Automatica, 1999, 35, 1091-1100.	3.0	96
5	Stabilization by smooth feedback of the angular velocity of a rigid body. Systems and Control Letters, 1985, 6, 59-63.	1.3	87
6	Pole assignment for linear time-invariant systems by periodic memoryless output feedback. Automatica, 1992, 28, 1159-1168.	3.0	68
7	Averaging Results and the Study of Uniform Asymptotic Stability of Homogeneous Differential Equations That Are Not Fast Time-Varying. SIAM Journal on Control and Optimization, 1999, 37, 997-1010.	1.1	65
8	Exponential Stability of Nonlinear Time-Varying Differential Equations and Partial Averaging. Mathematics of Control, Signals, and Systems, 2002, 15, 42-70.	1.4	46
9	Partial entrainment in the finite Kuramoto-Sakaguchi model. Physica D: Nonlinear Phenomena, 2007, 234, 81-89.	1.3	45
10	Asymptotic stability of nonautonomous systems by Liapunov's direct method. Systems and Control Letters, 1995, 25, 273-280.	1.3	43
11	Local and global controllability for nonlinear systems. Systems and Control Letters, 1984, 5, 19-26.	1.3	34
12	A mathematical model for the dynamics of clustering. Physica D: Nonlinear Phenomena, 2008, 237, 2517-2530.	1.3	34
13	Periodic output feedback stabilization of single-input single-output continuous-time systems with odd relative degree. Systems and Control Letters, 2004, 51, 395-406.	1.3	32
14	On stabilization by means of the Energy-Casimir method. Systems and Control Letters, 1992, 18, 325-328.	1.3	30
15	Cluster formation in a time-varying multi-agent system. Automatica, 2011, 47, 2481-2487.	3.0	29
16	Clustering in a network of non-identical and mutually interacting agents. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 745-768.	1.0	24
17	Exponential Stability of Slowly Time-Varying Nonlinear Systems. Mathematics of Control, Signals, and Systems, 2002, 15, 202-228.	1.4	22
18	Boundedness Properties For Time-Varying Nonlinear Systems. SIAM Journal on Control and Optimization, 2000, 39, 1408-1422.	1.1	21

#	ARTICLE	IF	CITATIONS
19	Global observability of Morse-Smale vectorfields. <i>Journal of Differential Equations</i> , 1982, 45, 1-15.	1.1	16
20	Controllability of linear time-invariant systems. <i>International Journal of Control</i> , 1987, 46, 2027-2034.	1.2	14
21	Pole Assignment for Linear Time-Invariant Second-Order Systems by Periodic Static Output Feedback. <i>IMA Journal of Mathematical Control and Information</i> , 1991, 8, 267-274.	1.1	13
22	Trajectory-Based Local Approximations of Ordinary Differential Equations. <i>SIAM Journal on Control and Optimization</i> , 2003, 41, 1922-1945.	1.1	13
23	Averaging techniques without requiring a fast time-varying differential equation. <i>Automatica</i> , 2011, 47, 192-200.	3.0	11
24	Emergence and evolution of multiple clusters of attracting agents. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 1026-1037.	1.3	10
25	Global Controllability for Smooth Nonlinear Systems: A Geometric Approach. <i>SIAM Journal on Control and Optimization</i> , 1985, 23, 452-465.	1.1	8
26	Resonances and entrainment breakup in Kuramoto models with multimodal frequency densities. <i>Physical Review E</i> , 2008, 77, 066212.	0.8	7
27	Robustness of Nonlinear Delay Equations with Respect to Input Perturbations: a Trajectory-Based Approach. <i>Mathematics of Control, Signals, and Systems</i> , 2002, 15, 316-335.	1.4	6
28	Stability of nonautonomous systems by Liapunov's direct method. <i>Banach Center Publications</i> , 1995, 32, 9-17.	0.1	6
29	On local controllability for nonlinear systems. , 1986, , .		4
30	Clustering in a network of mutually attracting agents. , 2008, , .		3
31	Cluster transitions in a multi-agent clustering model. , 2009, , .		3
32	Remarks on the Stabilizability of Nonlinear Systems by Smooth Feedback. , 1990, , 1-11.		3
33	Global observability for nonlinear autonomous differential equations. , 1978, , .		1
34	Stabilizability and asymptotic stabilizability of the angular velocity of a rigid body. , 1989, , 241-253.		1
35	Pole Assignment for Linear Systems by Periodic Output Feedback. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1994, 27, 297-302.	0.4	1
36	Asymptotic methods in stability analysis and control. <i>Lecture Notes in Control and Information Sciences</i> , 1999, , 201-213.	0.6	1

#	ARTICLE	IF	CITATIONS
37	Transient stability of a power system using a non-LurÅ©-type Lyapunov function. International Journal of Control, 1987, 46, 1477-1479.	1.2	0
38	Comments on "Global stability of solutions of non-linear control systems"™. International Journal of Systems Science, 1991, 22, 443-446.	3.7	0
39	A New Criterion for Asymptotic Stability of Nonautonomous Differential Equations: An Illustrative Example *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 31-35.	0.4	0
40	Pole assignment by memoryless periodic output feedback. Control and Dynamic Systems, 1995, 70, 353-378.	0.1	0
41	Averaging Results for Homogeneous Differential Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 65-69.	0.4	0
42	A NEW CRITERION FOR ASYMPTOTIC STABILITY OF NONAUTONOMOUS DIFFERENTIAL EQUATIONS: AN ILLUSTRATIVE EXAMPLE**The paper presents research results of the Belgian Programme on Interuniversity Poles of Attraction initiated by the Belgian State, Prime Minister's Office for Science, Technology and Culture. The author gratefully acknowledges research support from the EC-Science Project SC1-0433-C(A). The scientific responsibility rests with the author. , 1995, , 31-35.		0
43	Pole assignment for linear systems by periodic output feedback. , 1995, , 297-302.		0