Dirk Aeyels

List of Publications by Year
in descending order

43 papers	1,266 citations	430754 18 h-index	454834 30 g-index
43 all docs	43 docs citations	43 times ranked	495 citing authors

#	Article	IF	Citations
1	Cluster formation in a time-varying multi-agent system. Automatica, 2011, 47, 2481-2487.	3.0	29
2	Averaging techniques without requiring a fast time-varying differential equation. Automatica, 2011, 47, 192-200.	3.0	11
3	Emergence and evolution of multiple clusters of attracting agents. Physica D: Nonlinear Phenomena, 2010, 239, 1026-1037.	1.3	10
4	Cluster transitions in a multi-agent clustering model. , 2009, , .		3
5	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
6	A mathematical model for the dynamics of clustering. Physica D: Nonlinear Phenomena, 2008, 237, 2517-2530.	1.3	34
7	Clustering in a network of mutually attracting agents. , 2008, , .		3
8	Resonances and entrainment breakup in Kuramoto models with multimodal frequency densities. Physical Review E, 2008, 77, 066212.	0.8	7
9	Partial entrainment in the finite Kuramotoâ€"Sakaguchi model. Physica D: Nonlinear Phenomena, 2007, 234, 81-89.	1.3	45
10	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
11	Trajectory-Based Local Approximations of Ordinary Differential Equations. SIAM Journal on Control and Optimization, 2003, 41, 1922-1945.	1.1	13
12	Exponential Stability of Nonlinear Time-Varying Differential Equations and Partial Averaging. Mathematics of Control, Signals, and Systems, 2002, 15, 42-70.	1.4	46
13	Exponential Stability of Slowly Time-Varying Nonlinear Systems. Mathematics of Control, Signals, and Systems, 2002, 15, 202-228.	1.4	22
14	Robustness of Nonlinear Delay Equations with Respect to Input Perturbations: a Trajectory-Based Approach. Mathematics of Control, Signals, and Systems, 2002, 15, 316-335.	1.4	6
15	Boundedness Properties For Time-Varying Nonlinear Systems. SIAM Journal on Control and Optimization, 2000, 39, 1408-1422.	1.1	21
16	Semi-global practical asymptotic stability and averaging. Systems and Control Letters, 1999, 37, 329-334.	1.3	98
17	On exponential stability of nonlinear time-varying differential equations. Automatica, 1999, 35, 1091-1100.	3.0	96
18	Asymptotic methods in stability analysis and control. Lecture Notes in Control and Information Sciences, 1999, , 201-213.	0.6	1

#	ARTICLE	IF	CITATIONS
19	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
20	Averaging Results for Homogeneous Differential Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 65-69.	0.4	0
21	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
22	Pole assignment by memoryless periodic output feedback. Control and Dynamic Systems, 1995, 70, 353-378.	0.1	0
23	Asymptotic stability of nonautonomous systems by Liapunov's direct method. Systems and Control Letters, 1995, 25, 273-280.	1.3	43
24	Stability of nonautonomous systems by Liapunov's direct method. Banach Center Publications, 1995, 32, 9-17.	0.1	6
25	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
26	Pole assignment for linear systems by periodic output feedback. , 1995, , 297-302.		0
27	Pole Assignment for Linear Systems by Periodic Output Feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1994, 27, 297-302.	0.4	1
28	On stabilization by means of the Energy-Casimir method. Systems and Control Letters, 1992, 18, 325-328.	1.3	30
29	Pole assignment for linear time-invariant systems by periodic memoryless output feedback. Automatica, 1992, 28, 1159-1168.	3.0	68
30	Comments on â€˜Global stability of solutions of non-linear control systemsâ€™. International Journal of Systems Science, 1991, 22, 443-446.	3.7	0
31	Pole Assignment for Linear Time-Invariant Second-Order Systems by Periodic Static Output Feedback. IMA Journal of Mathematical Control and Information, 1991, 8, 267-274.	1.1	13
32	Remarks on the Stabilizability of Nonlinear Systems by Smooth Feedback. , 1990, , 1-11.		3
33	Stabilizability and asymptotic stabilizability of the angular velocity of a rigid body. , 1989, , 241-253.		1
34	Comments on the stabilizability of the angular velocity of a rigid body. Systems and Control Letters, 1988, 10, 35-39.	1.3	111
35	Controllability of linear time-invariant systems. International Journal of Control, 1987, 46, 2027-2034.	1.2	14
36	Transient stability of a power system using a non-LurÃ©-type Lyapunov function. International Journal of Control, 1987, 46, 1477-1479.	1.2	0

#	Article	IF	Citations
37	On local controllability for nonlinear systems. , 1986, , .		4
38	Stabilization of a class of nonlinear systems by a smooth feedback control. Systems and Control Letters, 1985, 5, 289-294.	1.3	260
39	Stabilization by smooth feedback of the angular velocity of a rigid body. Systems and Control Letters, 1985, 6, 59-63.	1.3	87
40	Global Controllability for Smooth Nonlinear Systems: A Geometric Approach. SIAM Journal on Control and Optimization, 1985, 23, 452-465.	1.1	8
41	Local and global controllability for nonlinear systems. Systems and Control Letters, 1984, 5, 19-26.	1.3	34
42	Global observability of Morse-Smale vectorfields. Journal of Differential Equations, 1982, 45, 1-15.	1.1	16
43	Global observability for nonlinear autonomous differential equations. , 1978, , .		1