

CITATION REPORT

List of articles citing

A universal construction of Artstein's theorem on nonlinear stabilization

DOI: 10.1016/0167-6911(89)90028-5
Systems and Control Letters, 1989, 13, 117-123.

Source: <https://exaly.com/paper-pdf/20623708/citation-report.pdf>

Version: 2024-04-27

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
969	.		
968	.		7
967	A necessary condition for feedback stabilization. <i>Systems and Control Letters</i> , 1990 , 14, 227-232	2.4	74
966	Asymptotic feedback stabilization: A sufficient condition for the existence of control Lyapunov functions. <i>Systems and Control Letters</i> , 1990 , 15, 441-448	2.4	19
965	Optimal controllers and output feedback stabilization. <i>Systems and Control Letters</i> , 1990 , 15, 277-284	2.4	26
964	. <i>IEEE Transactions on Automatic Control</i> , 1990 , 35, 951-954	5.9	43
963	. <i>IEEE Transactions on Automatic Control</i> , 1990 , 35, 473-476	5.9	270
962	Existence of Control Lyapunov Functions and Applications to State Feedback Stabilizability of Nonlinear Systems. 1991 , 29, 457-473		45
961	. <i>IEEE Transactions on Automatic Control</i> , 1991 , 36, 1177-1181	5.9	54
960	Design of stabilizing control laws for smooth non-linear systems. 1991 , 53, 541-558		1
959	A characterization of single-input planar bilinear systems which admit a smooth stabilizer. <i>Systems and Control Letters</i> , 1991 , 16, 139-144	2.4	19
958	Adding an integrator for the stabilization problem. <i>Systems and Control Letters</i> , 1991 , 17, 89-104	2.4	195
957	A generalization of Vidyasagar's theorem on stabilizability using state detection. <i>Systems and Control Letters</i> , 1991 , 17, 37-42	2.4	20
956	A universal formula for stabilization with bounded controls. <i>Systems and Control Letters</i> , 1991 , 16, 393-397		307
955	Planar nonlinear systems: Practical stabilization and Hermes controllability condition. <i>Systems and Control Letters</i> , 1991 , 17, 291-296	2.4	10
954	.		1
953	.		18

952	Recent Advances in The Stabilization Problem for Low Dimensional Systems. 1992 , 25, 1-8		13
951	Lyapunov Design of a Dynamic Output Feedback for Systems Linear in Their Unmeasured State Components. 1992 , 25, 63-68		7
950	Stabilization of Nonlinear Systems by Using integrators. 1992 , 25, 409-412		1
949	On the Existence of Control Lyapunov Functions: Generalizations of Vidyasagar's Theorem on Nonlinear Stabilization. 1992 , 30, 879-893		7
948	A local stabilization theorem for interconnected systems. <i>Systems and Control Letters</i> , 1992 , 18, 429-434	2.4	9
947	Adaptive regulation: Lyapunov design with a growth condition. 1992 , 6, 329-351		29
946	An extension of Artstein's theorem on stabilization by using ordinary feedback integrators. <i>Systems and Control Letters</i> , 1993 , 20, 141-148	2.4	19
945	Dynamic output feedback regulation for a class of nonlinear systems. 1993 , 6, 106-124		36
944	Linear stabilization of nonlinear cascade systems. 1993 , 6, 146-165		7
943	Versions of Sontag's Input to State Stability Condition and the Global Stabilizability Problem. 1993 , 31, 928-941		22
942	.		6
941	A universal formula for the stabilization of control stochastic differential equations. 1993 , 11, 155-162		88
940	.		20
939	.		6
938	.		7
937	Stabilization of homogeneous bilinear systems. 1994 , 7, 23-28		5
936	Feedback stabilization of nonlinear systems by locally bounded controls. <i>Systems and Control Letters</i> , 1994 , 23, 255-262	2.4	1
935	Stabilization via dynamic output feedback for systems with output nonlinearities. <i>Systems and Control Letters</i> , 1994 , 23, 411-419	2.4	6

934	.			3
933	.			
932	. <i>IEEE Transactions on Automatic Control</i> , 1994 , 39, 33-46		5.9	46
931	Lyapunov and ISS Frameworks for Adaptive Nonlinear Stabilization *. 1995 , 28, 103-108			
930	Feedback Stabilization of Homogeneous Polynomial Systems. 1995 , 28, 137-141			
929	On Characterizations of Input-to-State Stability with Respect to Compact Sets. 1995 , 28, 203-208			2
928	Application of Stochastic Artstein's Theorem to Feedback Stabilization. 1995 , 28, 759-763			1
927	External Stability of Nonlinear Systems. 1995 , 28, 197-202			
926	Uncertainty structures in adaptive and robust stabilization. 1995 , 31, 1565-1575			5
925	Geometrical and topological methods in optimal control theory. 1995 , 76, 2555-2719			10
924	Control Lyapunov functions for adaptive nonlinear stabilization. <i>Systems and Control Letters</i> , 1995 , 26, 17-23		2.4	35
923	A global stabilization theorem for planar nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 1995 , 5, 719-729		3.6	2
922	On Characterizations of Input-to-State Stability with Respect to Compact Sets. 1995 , 203-208			36
921	Control of nonlinear dynamic systems using a stability based neural network approach.			1
920	Smoothly Global Stabilizability by Dynamic Feedback and Generalizations of Artstein's Theorem. 1995 , 33, 1071-1085			5
919	Nonsmooth control-Lyapunov functions.			43
918	Feedback Stabilization of Nonlinear Systems: Sufficient Conditions and Lyapunov and Input-output Techniques. 1995 , 293-348			44
917	Optimal nonlinear controllers for feedback linearizable systems.			44

916	Lyapunov-Like Techniques for Stochastic Stability. 1995 , 33, 1151-1169		158
915	Noninteraction and Stability via Invertible Feedback Laws and Some Existence Conditions. 1995 , 33, 107-125		
914	Control Lyapunov functions: new ideas from an old source.		46
913	Global output regulation and disturbance attenuation with global stability via measurement feedback for a class of nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 1996 , 41, 315-327	5.9	56
912	Passivity based damping of power system oscillations.		12
911	Inverse Optimality in Robust Stabilization. 1996 , 34, 1365-1391		248
910	A Converse Lyapunov Theorem with Applications to Lss-Disturbance Attenuation 1. 1996 , 29, 1960-1965		5
909	Stabilization of Nonlinear Systems with Norm Bounded Uncertainties. 1996 , 29, 2002-2007		1
908	Approaches to robust nonlinear control. 1996 , 1-14		
907	Trajectory approximation based adaptive control for nonlinear systems under matching conditions.		
906	Modular approach to adaptive nonlinear stabilization. 1996 , 32, 625-629		24
905	Global almost disturbance decoupling with stability for non minimum-phase single-input single-output nonlinear systems. <i>Systems and Control Letters</i> , 1996 , 28, 115-122	2.4	66
904	Stabilization in spite of matched unmodeled dynamics and an equivalent definition of input-to-state stability. 1996 , 9, 1-33		185
903	Optimal design of adaptive tracking controllers for nonlinear systems. 1997 ,		2
902	An adaptive approach to Lyapunov design in nonlinear optimal stabilization problems.		4
901	Output-feedback stochastic nonlinear stabilization.		2
900	Polytopic control Lyapunov functions for robust stabilization of a class of nonlinear systems. 1997 ,		
899	.		1

898	Inverse optimal design of input-to-state stabilizing nonlinear controllers.		4
897	Stochastic nonlinear Lyapunov stabilization and inverse optimality.		3
896	Stabilization of nonlinear stochastic systems using control Lyapunov function.		
895	.		5
894	Asymptotic controllability implies feedback stabilization. <i>IEEE Transactions on Automatic Control</i> , 1997 , 42, 1394-1407	5.9	366
893	Control Lyapunov stabilization of affine discrete-time systems.		17
892	A control Lyapunov function approach to robust stabilization of nonlinear systems. 1997 ,		7
891	Universal controllers for robust control problems. 1997 , 10, 188-202		4
890	Stochastic nonlinear stabilization III: Inverse optimality. <i>Systems and Control Letters</i> , 1997 , 32, 151-159	2.4	111
889	Stochastic nonlinear stabilization II: A backstepping design. <i>Systems and Control Letters</i> , 1997 , 32, 143-150	4	389
888	Optimal design of adaptive tracking controllers for non-linear systems. 1997 , 33, 1459-1473		60
887	Trajectory-approximation-based adaptive control for nonlinear systems under matching conditions. 1998 , 34, 287-299		18
886	On nonlinear detectability. 1998 , 335, 1105-1123		4
885	Some results on global and semiglobal stabilization of affine-systems. <i>Systems and Control Letters</i> , 1998 , 33, 259-263	2.4	1
884	Polytopic control Lyapunov functions for robust stabilization of a class of nonlinear systems. <i>Systems and Control Letters</i> , 1998 , 34, 77-83	2.4	4
883	Interconnected nonlinear systems, local and global stabilization. <i>Systems and Control Letters</i> , 1998 , 35, 317-323	2.4	9
882	Universal stabilization using control Lyapunov functions, adaptive derivative feedback, and neural network approximators. 1998 , 28, 472-7		16
881	Inverse optimal design of input-to-state stabilizing nonlinear controllers. <i>IEEE Transactions on Automatic Control</i> , 1998 , 43, 336-350	5.9	184

880	Computational Complexity of Lyapunov Stability Analysis Problems for a Class of Nonlinear Systems. 1998 , 36, 2176-2193	2
879	Robust nonlinear controller for turbocharged diesel engines. 1998 ,	49
878	On receding horizon extensions and control Lyapunov functions. 1998 ,	6
877	A receding horizon state dependent Riccati equation approach to suboptimal regulation of nonlinear systems.	3
876	. 1998 ,	6
875	A Jurdjevic-Quinn type theorem for nonlinear systems.	1
874	Robust switching adaptive control of multi-input nonlinear systems.	0
873	Nonlinear stabilization of particular interconnected structures.	
872	Stability margins in inverse optimal input-to-state stabilization. 1998 ,	3
871	Nonlinear integral control.	0
870	Control of unknown nonlinear systems using output feedback.	1
869	Neural network control of unknown systems.	2
868	Stabilizing Dead-Beat Controllers for Two Classes of Wiener-Hammerstein Systems. 1998 , 31, 329-334	
867	Robust Neural Control of a Flexible Structure. 1998 , 31, 99-104	
866	Adaptive Stabilization of Stochastic Nonlinear Systems. 1998 , 31, 473-480	3
865	Practical L ₂ Disturbance Attenuation for Nonlinear Systems. 1998 , 31, 155-160	2
864	Closed-Form Solutions of Stochastic and Deterministic Nonlinear Control Problems. 1998 , 31, 327-332	
863	Stabilization of Nonlinear Systems Using Vector Lyapunov Functions. 1998 , 31, 603-608	0

862	Practical Stabilization of a Class of Single-Input Nonlinear Systems. 1998 , 31, 89-94			1
861	Feedback stabilization of nonlinear stochastic systems by locally bounded controls. 1998 , 16, 17-27			
860	Robustness analysis of Hopfield and modified Hopfield neural networks in time domain.			
859	On assigning the derivative of a disturbance attenuation CLF.			5
858	Control Lyapunov function based receding horizon control for time-varying systems.			
857	On integral-input-to-state stabilization. 1999 ,			3
856	Semiglobal L_2 performance bounds for disturbance attenuation in nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 1535-1545	5.9		16
855	Lyapunov function for the ball and beam: robustness property.			5
854	Nonlinear control for joint air and fuel management in a SI engine. 1999 ,			
853	Optimal adaptive tracking for nonlinear systems. 1999 , 184-214			
852	On a universal formula for the stabilization of control stochastic nonlinear systems. 1999 , 17, 359-368			10
851	Robust stabilization of nonlinear systems with pointwise norm-bounded uncertainties: a control Lyapunov function approach. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 3-17	5.9		25
850	Stabilizability and dead-beat controllers for two classes of Wiener-Hammerstein models. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 2068-2071	5.9		5
849	Stabilizing receding horizon control of nonlinear systems: a control Lyapunov function approach. 1999 ,			27
848	Robust optimal control of nonlinear systems. 1999 ,			3
847	Nonlinear control of the salnikov model reaction. <i>Computers and Chemical Engineering</i> , 1999 , 23, S289-S292			
846	The concept of Exponential input to state stability for stochastic systems and applications to feedback stabilization. <i>Systems and Control Letters</i> , 1999 , 36, 221-229	2.4		35
845	CLF based designs with robustness to dynamic input uncertainties. <i>Systems and Control Letters</i> , 1999 , 37, 45-54	2.4		43

844	Control-Lyapunov functions. 1999 , 211-216		8
843	An adaptive approach to cost reduction in nonlinear uncertain systems using Lyapunov design.		1
842	Output-feedback stochastic nonlinear stabilization. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 328-333	5.9	310
841	Universal formulas for CLFs with respect to Minkowski balls. 1999 ,		5
840	Comparison of nonlinear control designs for a ducted fan model. 1999 , 32, 2181-2186		2
839	A control lyapunov function based receding horizon methodology for input constrained nonlinear systems. 1999 , 32, 2651-2656		
838	Output-feedback disturbance attenuation and adaptive control for stochastic nonlinear systems. 1999 , 32, 4977-4982		1
837	Control Lyapunov-Razumikhin functions for time delay systems.		6
836	Output-Feedback Control of stochastic nonlinear systems. 1999 , 269-289		
835	Feedback stabilization of discrete-time nonlinear systems via the control Lyapunov functions.		1
834	ISS and integral-ISS disturbance attenuation with bounded controls.		13
833	Robust stability and stabilization: From linear to nonlinear. 2000 , 33, 21-32		1
832	Nonlinear Torque Control of a Spark Ignition Engine. 2000 , 33, 591-596		2
831	Modified Optimal Control: Robust Stabilization of Nonlinear Uncertain Systems. 2000 , 33, 511-516		2
830	Inverse optimal adaptive control for non-linear uncertain systems with exogenous disturbances. 2000 , 14, 1-38		9
829	Universal formulas for feedback stabilization with respect to Minkowski balls. <i>Systems and Control Letters</i> , 2000 , 40, 247-260	2.4	36
828	Output-feedback stabilization of stochastic nonlinear systems driven by noise of unknown covariance. <i>Systems and Control Letters</i> , 2000 , 39, 173-182	2.4	127
827	Application of stochastic artsteins theorem to feedback stablization. 2000 , 18, 361-373		3

826	Adaptive minimum cost-Lyapunov-descent control of nonlinear systems. 2000 ,		1
825	Inverse optimal H/sub /spl infin// disturbance attenuation for planar manipulators with the eye-in-hand system.		1
824	Comparison of receding horizon control and an adaptive approach to cost reduction using Lyapunov design in nonlinear systems. 2000 ,		1
823	Uniform asymptotic controllability to a set implies locally Lipschitz control-Lyapunov function.		14
822	Control of zero-bias magnetic bearings using control Lyapunov functions.		10
821	Robust CLRF based nonlinear control design for time delay systems. 2000 ,		1
820	An algorithm for feedback stabilization with respect to saturating controls using universal formulas for control-Lyapunov functions. 2000 ,		1
819	Extension of control Lyapunov functions to time-delay systems.		9
818	Constructive Lyapunov control design for turbocharged diesel engines. 2000 , 8, 288-299		219
817	Receding Horizon Control Lyapunov Function Approach to Suboptimal Regulation of Nonlinear Systems. 2000 , 23, 399-405		20
816	A receding horizon generalization of pointwise min-norm controllers. <i>IEEE Transactions on Automatic Control</i> , 2000 , 45, 898-909	5.9	98
815	A computationally efficient Lyapunov-based scheduling procedure for control of nonlinear systems with stability guarantees. <i>IEEE Transactions on Automatic Control</i> , 2000 , 45, 33-49	5.9	46
814	Control Lyapunov-Razumikhin functions and robust stabilization of time delay systems. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 1048-1060	5.9	266
813	Remarks on the Feedback Stabilization of System Affine in Control. 2001 , 7, 17-28		7
812	A continuous feedback approach to global strong stabilization of nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 1061-1079	5.9	714
811	Control Lyapunov functions for controllable series devices. 2001 , 16, 689-694		109
810	Nonlinear regulation using the satisficing paradigm. 2001 ,		2
809	Application of control Lyapunov functions technique for partial stabilization.		3

808	Stabilization of nonlinear systems via forwarding mod $\{L/sub g/V\}$. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 1461-1466	5.9	47
807	. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 1237-1253	5.9	477
806	On the Synthesis of a Stabilizing Feedback Control via Manifold Methods. 2001 , 34, 381-384		
805	Design non-linear system with sliding mode control. 2001 , 34, 190-197		
804	Robust Nonlinear Torque Control of a Spark Ignition Engine. 2001 , 34, 301-306		
803	Converse Lyapunov Theorems for Non-Uniform in Time Global Asymptotic Stability and Stabilization by Means of Time-Varying Feedback. 2001 , 34, 769-773		
802	On the existence of nonsmooth control-Lyapunov functions in the sense of generalized gradients. 2001 , 6, 593-611		20
801	Non-Lipschitz continuous stabilizers for nonlinear systems with uncontrollable unstable linearization. <i>Systems and Control Letters</i> , 2001 , 42, 185-200	2.4	432
800	Some results on inverse optimality based designs. <i>Systems and Control Letters</i> , 2001 , 43, 239-246	2.4	3
799	Discrete-time control design with positive semi-definite Lyapunov functions. <i>Systems and Control Letters</i> , 2001 , 43, 287-292	2.4	10
798	Global stabilization of a certain class of nonlinear dynamical systems using state detection. 2001 , 14, 913-919		4
797	Constructive nonlinear control: a historical perspective. 2001 , 37, 637-662		450
796	Ignored input dynamics and a new characterization of control Lyapunov functions. 2001 , 37, 831-841		10
795	A control strategy for controllable series capacitor in electric power systems. 2001 , 37, 1575-1583		36
794	Stable adaptive neuro-control design via Lyapunov function derivative estimation. 2001 , 37, 1213-1221		50
793	Comparison of nonlinear control design techniques on a model of the Caltech ducted fan. 2001 , 37, 1971-1978		30
792	Hybrid control strategies in ABS. 2001 ,		20
791	On the optimal and suboptimal VSC approaches for nonlinear uncertain systems. 2001 ,		

790	A CONSTRUCTIVE EXTENSION OF ARTSTEIN'S THEOREM TO THE STOCHASTIC CONTEXT. 2002 , 02, 251-263		1
789	Application of control Lyapunov functions to static VAR compensator.		2
788	A condition of CLF existence for affine systems.		6
787	A graphical understanding of Lyapunov-based nonlinear control.		3
786	A stochastic version of Artstein's theorem.		
785	.		
784	Ensuring stability of state-dependent Riccati equation controllers via satisficing.		7
783	Robust switching adaptive control of multi-input nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 2002 , 47, 610-624	5.9	56
782	Adaptive stabilization of generalized Hamiltonian systems with dissipation and its applications to power systems. 2002 , 33, 839-846		14
781	Semiconcave Control-Lyapunov Functions and Stabilizing Feedbacks. 2002 , 41, 659-681		63
780	A manifold-like characterization of asymptotic stabilizability of homogeneous systems. <i>Systems and Control Letters</i> , 2002 , 45, 173-178	2.4	3
779	Universal construction of feedback laws achieving ISS and integral-ISS disturbance attenuation. <i>Systems and Control Letters</i> , 2002 , 46, 111-127	2.4	62
778	Global robust stabilization of nonlinear systems subject to input constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2002 , 12, 1227-1238	3.6	10
777	Practical L2 disturbance attenuation for nonlinear systems. 2002 , 38, 139-145		13
776	A new Lyapunov design approach for nonlinear systems based on Zubov's method. 2002 , 38, 1999-2007		37
775	Strict Lyapunov functions for time-varying systems. 2003 , 39, 349-353		64
774	Bounded robust control of constrained multivariable nonlinear processes. 2003 , 58, 3025-3047		134
773	Optimal practical stabilization and controllability of systems with Markovian jumps. 2003 , 54, 1011-1027		13

772	Dynamic control of a SI engine with variable intake valve timing. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 399-420	3.6	4
771	Suboptimal control of constrained nonlinear systems via receding horizon constrained control Lyapunov functions. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 247-259	3.6	13
770	Robust inverse optimal control laws for nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 1371-1388	3.6	16
769	Control of nonlinear systems with time delay.		12
768	Zero- and low-bias control designs for active magnetic bearings. 2003 , 11, 889-904		48
767	On necessary conditions for almost global stability. <i>IEEE Transactions on Automatic Control</i> , 2003 , 48, 631-634	5.9	32
766	Global stabilization of nonlinear systems: A continuous feedback framework. 2003 , 295-315		
765	A Converse Lyapunov Theorem for Nonuniform in Time Global Asymptotic Stability and Its Application to Feedback Stabilization. 2003 , 42, 936-965		42
764	Controller Synthesis for Constrained Flight Systems via Receding Horizon Optimization. 2003 ,		3
763	Rendering the electromechanical valve actuator globally asymptotically stable.		16
762	Global robust state-feedback for nonlinear systems via dynamic high-gain scaling.		
761	Design fuzzy controllers based on T-S fuzzy model via control Lyapunov function.		
760	Generalization of CLF-based nonlinear control systems. 2003 , 36, 59-64		
759	Backstepping with Bounded Feedbacks for Time-Varying Systems. 2004 , 43, 856-871		16
758	A Bounded Stabilizing Control for Nonlinear Systems Synthesized Using Parametric Families of Lyapunov Functions. 2004 , 15, 296-302		
757	A complete parameterization of clf-based input-to-state stabilizing control laws. <i>International Journal of Robust and Nonlinear Control</i> , 2004 , 14, 1393-1420	3.6	7
756	Robust stabilization for single-input polytopic nonlinear systems.		
755	Nonlinear control experiments on an axial flow compressor. 2004 , 12, 683-693		14

754	Propagating asymptotic controllability through integrators. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 134-140	5.9	1
753	Satisficing: a new approach to constructive nonlinear control. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1090-1102	5.9	26
752	Robust redesign of a neural network controller in the presence of unmodeled dynamics. 2004 , 15, 1482-90		21
751	On the stability and control of nonlinear systems via vector Lyapunov functions. 2004 ,		1
750	Nonuniform in time input-to-state stability and the small-gain theorem. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 196-216	5.9	39
749	Strong Lyapunov Functions for systems satisfying the conditions of La salle. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1026-1030	5.9	20
748	Weak Converse Lyapunov Theorems and Control-Lyapunov Functions. 2004 , 42, 1934-1959		38
747	Controller design for a nonlinear system with inputs restricted to a direct product of Minkowski balls. 2004 ,		2
746	Approximate Solutions of Nonlinear H ₂ Or H _∞ Control Problems via a Wavelet Galerkin Method. 2004 , 37, 451-456		
745	Nonlinear Magnetic Levitation of Automotive Engine Valves. 2004 , 37, 611-616		1
744	Conditions for global asymptotic stabilization of discrete-time systems. 2004 , 37, 1201-1206		1
743	NONLINEAR SAMPLED DATA CONTROLLER REDESIGN VIA LYAPUNOV FUNCTIONS. 2005 , 38, 862-867		
742	NON AUTONOMOUS AFFINE SYSTEMS: CONTROL LYAPUNOV FUNCTION AND THE STABILIZATION PROBLEM. 2005 , 38, 372-376		0
741	GLOBAL ASYMPTOTIC STABILIZATION BY USING THE CONTROL LYAPUNOV FUNCTION. 2005 , 38, 640-645		0
740	CONTROLLER FOR A NONLINEAR SYSTEM WITH AN INPUT CONSTRAINT BY USING A CONTROL LYAPUNOV FUNCTION I. 2005 , 38, 747-752		2
739	CONTROLLER FOR A NONLINEAR SYSTEM WITH AN INPUT CONSTRAINT BY USING A CONTROL LYAPUNOV FUNCTION II. 2005 , 38, 753-758		2
738	Constructive Control Lyapunov Functions for a Class of Nonlinear Systems.		
737	Nonlinear sampled-data output feedback receding horizon control. 2005 , 15, 469-480		2

736	Lyapunov-based continuous-time nonlinear controller redesign for sampled-data implementation. 2005 , 41, 1143-1156	110
735	Sequential Support Vector Machine Control of Nonlinear Systems via Lyapunov Function Derivative Estimation. 2005 , 292-295	
734	Stabilisation and improvement of performance by extension of universal formula in the presence of disturbance. 2005 , 152, 229-237	
733	Inverse optimal control of nonlinear systems with structural uncertainty. 2005 , 152, 79-83	21
732	Partial stability and control: The state-of-the-art and development prospects. 2005 , 66, 511-561	47
731	Controller design techniques for the Lotka-Volterra nonlinear system. 2005 , 16, 124-135	7
730	Modifizierte Optimale Regelung \mathcal{L} Stabilit \mathcal{L} sorientierter nichtlinearer Reglerentwurf (Modified Optimal Control \mathcal{L} Stability-Oriented Nonlinear Control). 2005 , 53, 367-377	1
729	Non-linear missile guidance synthesis using control Lyapunov functions. 2005 , 219, 77-87	10
728	Input-to- Output Stabilization of Nonlinear Systems via Backstepping.	2
727	Controller synthesis for a class of second-order nonlinear systems.	
726	Improving the Performance of an Electrostatically Actuated MEMS by Nonlinear Control: Some Advances and Comparisons.	3
725	Biodynamic Response Mitigation to Shock Loads Using Magnetorheological Helicopter Crew Seat Suspensions. 2005 , 42, 1288-1295	57
724	Mitigation of biodynamic response to vibratory and blast-induced shock loads using magnetorheological seat suspensions. 2005 , 219, 741-753	42
723	Control-Lyapunov Functions for Systems Satisfying the Conditions of the Jurdjevic-Quinn Theorem.	
722	Stabilization of nonlinear time delay systems with delay-independent feedback.	14
721	Decentralized Output Feedback Adaptive Control of Large-Scale Stochastic Nonlinear System. 2005	
720	Almost Sure Stabilizability of Controlled Degenerate Diffusions. 2005 , 44, 75-98	17
719	Nonlinear norm-observability notions and stability of switched systems. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 154-168	5.9 208

7 ¹⁸	Stabilization of nonaffine systems: a constructive method for polynomial systems. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 520-526	5.9	39
7 ¹⁷	Lyapunov-based approach for finite time stability and stabilization.		9
7 ¹⁶	Threshold policies control for predator-prey systems using a control Liapunov function approach. 2005 , 67, 273-84		62
7 ¹⁵	A Resetting Neuro-Controller in the Presence of Unmodeled Dynamics.		
7 ¹⁴	An adaptive neuro-fuzzy control approach for nonlinear systems via Lyapunov function derivative estimation. 2006 ,		
7 ¹³	On-Line Trajectory Planning for Aerial Vehicles: A Safe Approach with Guaranteed Task Completion. 2006 ,		5
7 ¹²	Constrained Optimal Control of Hybrid Systems With a Linear Performance Index. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 1903-1919	5.9	43
7 ¹¹	An analysis and design method for systems with structural uncertainty. 2006 , 79, 1647-1653		11
7 ¹⁰	Necessary and sufficient conditions for robust global asymptotic stabilization of discrete-time systems. 2006 , 12, 741-768		6
7 ⁰⁹	Damping Control by Fusion of Reinforcement Learning and Control Lyapunov Functions. 2006 ,		1
7 ⁰⁸	Nonlinear control for magnetic levitation of automotive engine valves. 2006 , 14, 346-354		38
7 ⁰⁷	Simultaneous Controller and Protocol Design for Networked Control Systems with Packet Based Communication. 2006 ,		4
7 ⁰⁶	On the stability and control of nonlinear dynamical systems via vector Lyapunov functions. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 203-215	5.9	70
7 ⁰⁵	Further constructions of control-Lyapunov functions and stabilizing feedbacks for systems satisfying the Jurdjevic-Quinn conditions. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 360-365	5.9	16
7 ⁰⁴	Robust Stabilization for Single-Input Polytopic Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 1492-1496	5.9	13
7 ⁰³	A New Nonlinear Controller Design Method Based on Control Lyapunov Function. 2006 ,		0
7 ⁰²	Stochastic adaptive backstepping controller design by introducing dynamic signal and changing supply function. 2006 , 79, 1635-1646		79
7 ⁰¹	Stabilization for Nonlinear Systems with Ignored Input Dynamics. 2006 ,		

700	Adaptive Output Feedback Control for Stochastic Nonlinear Systems. 2006,	
699	Finite time stability and stabilization of a class of continuous systems. 2006, 323, 1430-1443	276
698	Backstepping design for controlling electrohydraulic servos. 2006, 343, 94-110	45
697	Adaptive robust control of nonholonomic systems with stochastic disturbances. 2006, 49, 189-207	18
696	Backstepping Controller Design for Large-scale Stochastic Systems with Time Delays. 2006,	
695	An example with interesting controllability and stabilisation properties. 2006,	1
694	Searching for control Lyapunov-Morse functions using genetic programming for global asymptotic stabilization of nonlinear systems. 2006,	3
693	Generalized Point Wise Min-Norm Control Based on Control Lyapunov Functions. 2006,	2
692	Smooth patchy control Lyapunov functions. 2006,	7
691	Control Vector Lyapunov Functions for Large-Scale Impulsive Dynamical Systems. 2006,	0
690	. 2006,	11
689	Model-based control of nonlinear systems subject to sensor data losses: A chemical process case study. 2007,	2
688	Output Feedback Control of Nonlinear Systems Subject to Sensor Data Losses. 2007,	1
687	Nonlinear stabilization via control-Lyapunov measure. 2007,	1
686	Adaptive State Feedback Control for a Class of Stochastic Nonlinear Systems with Unknown Backlash-Like Hysteresis. 2007,	2
685	Robust nonlinear adaptive control for the magnetic levitation system. 2007,	1
684	Nonlinear model predictive control enhanced by generalized pointwise min-norm scheme. 2007,	2
683	CONSTRUCTIVE SAFETY USING CONTROL BARRIER FUNCTIONS. 2007, 40, 462-467	137

682	. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 2390-2394	5.9	55
681	Fault Tolerant Control for Nonlinear Systems: Sum-of-Squares Optimization Approach. 2007 ,		
680	A Control Lyapunov Approach for Feedback Control of Cable-Suspended Robots. 2007 ,		7
679	Global asymptotic stabilization of nonlinear system with multiple singular points using changeover of control Lyapunov-Morse function. 2007 ,		
678	Stabilization of Time-varying Nonlinear Systems: A Control Lyapunov Function Approach. 2007 ,		1
677	Nonlinear robust walking control of biped robot. 2007 ,		
676	Adaptive control of a class of nonaffine systems using neural networks. 2007 , 18, 1149-59		66
675	A Control-Theoretic Approach to the Design of Zero Finding Numerical Methods. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1014-1026	5.9	41
674	Sampled-data feedback practical semi-global controllability and stabilization for time-varying systems. 2007 , 80, 21-34		5
673	Inverse optimal control for nonlinear systems with input constraints. 2007 ,		5
672	Feedback stabilization of homogeneous polynomial systems of odd degree in the plane. <i>Systems and Control Letters</i> , 2007 , 56, 611-617	2.4	1
671	Quadratic stabilization of linear networked control systems via simultaneous protocol and controller design. 2007 , 43, 1145-1155		83
670	Control vector Lyapunov functions for large-scale impulsive dynamical systems. 2007 , 1, 223-243		13
669	Feedback stabilization of bifurcations in multivariable nonlinear systemsPart I: equilibrium bifurcations. <i>International Journal of Robust and Nonlinear Control</i> , 2007 , 17, 265-293	3.6	4
668	On Constrained Nonlinear Tracking Control of a Small Fixed-wing UAV. 2007 , 48, 525-537		27
667	A New Stabilizing Control Law with Respect to a Control Lyapunov Function and Construction of Control Lyapunov Function for Particular Nonaffine Nonlinear Systems. 2007 , 13, 563-576		3
666	Constructive Stabilization of Quadratic-Input Nonlinear Systems with Bounded Controls. 2008 , 14, 571-593		8
665	On The Stabilization of Homogeneous Perturbed Systems. 2008 , 14, 595-606		2

664	Constructive model predictive control for constrained nonlinear systems. 2008 , 29, 467-481		5
663	An adaptive neuro-fuzzy tracking control for multi-input nonlinear dynamic systems. 2008 , 44, 1418-1425		20
662	Output feedback control of nonlinear systems subject to sensor data losses. <i>Systems and Control Letters</i> , 2008 , 57, 631-642	2.4	22
661	Constructive stabilization for quadratic input nonlinear systems. 2008 , 44, 1996-2005		16
660	Stabilization via homogeneous feedback controls. 2008 , 44, 2981-2984		15
659	NONLINEAR OPTIMAL CONTROL: A CONTROL LYAPUNOV FUNCTION AND RECEDING HORIZON PERSPECTIVE. 2008 , 1, 14-24		116
658	Fuzzy control design for switched nonlinear systems. 2008 ,		1
657	Feedback Stabilization for Multiinput Switched Nonlinear Systems: Two Subsystems Case. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 1037-1042	5.9	34
656	Facilitated variation: how evolution learns from past environments to generalize to new environments. 2008 , 4, e1000206		109
655	Further Development of Input-to-State Stabilizing Control for Dynamic Neural Network Systems. 2008 , 38, 1425-1433		15
654	Lyapunov-Based Model Predictive Control of Nonlinear Systems Subject to Data Losses. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 2076-2089	5.9	187
653	Robust Adaptive Control of Feedback Linearizable MIMO Nonlinear Systems With Prescribed Performance. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 2090-2099	5.9	903
652	Output Feedback Control of Bilinear Systems via a Bilinear LTR Observer. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 617-621	5.9	14
651	Optimal Regulation of Unknown Nonlinear Systems Based on Locally Weighted Learning. 2008 ,		0
650	Universal construction of control Lyapunov functions for multi-input linear systems. 2008 ,		1
649	Lyapunov-based model predictive control of nonlinear systems subject to time-varying measurement delays. 2008 ,		2
648	Fault Detection and Isolation for Nonlinear Process Systems Using Asynchronous Measurements. 2008 , 47, 10009-10019		10
647	Locally optimal and globally inverse optimal controller for multi-input nonlinear systems. 2008 ,		

- 646 . **2008**, 3
- 645 Simultaneous stabilization for a collection of nonlinear systems with uncertain parameter. **2008**,
- 644 A Control Lyapunov Approach to Predictive Control of Hybrid Systems. **2008**, 130-143 4
- 643 Sufficient Conditions for Closed-Loop Asymptotic Controllability and Stabilization by Smooth Time-Varying Feedback Integrator. *IEEE Transactions on Automatic Control*, **2008**, 53, 1983-1997 5-9
- 642 Uniting two Control Lyapunov Functions for affine systems. **2008**, 4
- 641 On the averaging method for affine in control systems. **2008**,
- 640 Optimized input-to-state stabilization of discrete-time nonlinear systems with bounded inputs. **2008**, 7
- 639 The Global Inverse Optimal Design with Robustness to Some Uncertainties. **2008**,
- 638 A quasi-optimal Variable Structure Control scheme based on Control Lyapunov Function. **2008**,
- 637 Optimal tracking control for unknown nonlinear systems based on locally weighted learning. **2008**, 1
- 636 . **2008**, 5
- 635 Entropy based algorithm for combinatorial optimization problems with mobile sites and resources. **2008**, 6
- 634 Remarks on ISS and Integral-ISS Stabilization with Positive Controls. **2008**, 41, 2454-2459
- 633 Control Lyapunov Functions: New Framework for Nonlinear Controller Design. **2008**, 41, 14138-14143 1
- 632 Global asymptotic stabilization for a nonlinear system on a manifold via a dynamic compensator. **2008**, 41, 6178-6183 3
- 631 Adaptive Control Design based on Adaptive Optimization Principles. **2008**, 41, 5065-5070
- 630 Relaxed Lyapunov criteria for robust global stabilisation of non-linear systems. **2009**, 82, 2077-2094 16
- 629 Stabilization problems of nonlinear systems using feedback laws with Wiener processes. **2009**, 4

628	An entropy-based framework for dynamic clustering and coverage problems. 2009,	0
627	Adaptive output-feedback control for stochastic nonlinear systems with zero dynamics. 2009,	0
626	Fault detection and isolation of a polyethylene reactor using asynchronous measurements. 2009,	
625	Stabilization for a collection of feedback linearizable systems. 2009,	
624	The Optimal Stabilization of Cart-Pole System: A Modified Forwarding Control Method. 2009,	
623	Numerical optimization method for HJB equations with its application to receding horizon control schemes. 2009,	2
622	Design of an error-based robust adaptive controller. 2009,	3
621	Quasi-ISS reduced-order observers and quantized output feedback. 2009,	4
620	Lyapunov functions under LaSalle conditions with an application to Lotka-Volterra systems. 2009,	1
619	Stability of quantized time-delay nonlinear systems: A Lyapunov-Krasowskii-functional approach. 2009,	4
618	Synthesis of positive controls for the global CLF stabilization of systems. 2009,	0
617	Control Lyapunov functions and stabilization by means of continuous time-varying feedback. 2009, 15, 599-625	10
616	Adaptive control of stochastic nonlinear systems with uncontrollable linearization. 2009, 23, 667-678	4
615	Lyapunov-based model predictive control of nonlinear systems subject to time-varying measurement delays. 2009, 23, 788-807	36
614	Distributed model predictive control of nonlinear process systems. <i>AICHE Journal</i> , 2009, 55, 1171-1184 3.6	171
613	Inverse optimal control and construction of control Lyapunov functions. 2009, 161, 297-307	8
612	Stabilization of nonlinear time-varying systems: a control lyapunov function approach. 2009, 22, 683-696	15
611	Simultaneous Stabilization for a Collection of Multi-input Nonlinear Systems with Uncertain Parameters. 2009, 35, 206-209	3

610	Synchronization of unified chaotic systems with uncertain parameters based on the CLF. 2009 , 10, 715-722	34
609	Finite-time synchronization of uncertain unified chaotic systems based on CLF. 2009 , 10, 2842-2849	69
608	Smooth patchy control Lyapunov functions. 2009 , 45, 675-683	21
607	Stabilizing controllers design for switched nonlinear systems in strict-feedback form. 2009 , 45, 1092-1096	215
606	Inverse optimality of cooperative control for networked systems. 2009 ,	6
605	Inverse optimal control problem for bilinear systems: Application to the inverted pendulum with horizontal and vertical movement. 2009 ,	17
604	Generalized Receding Horizon Control of Fuzzy Systems Based on Numerical Optimization Algorithm. 2009 , 17, 1336-1352	15
603	On the robustness analysis of triangular nonlinear systems: iISS and practical stability. 2009 ,	0
602	Nonlinear predictive control of input constrained system based on generalized pointwise min-norm scheme. 2009 ,	
601	Simultaneous H^∞ Control for Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 606-610	5.9 11
600	Control of unknown nonlinear systems with efficient transient performance using concurrent exploitation and exploration. 2009 ,	1
599	Distributed model predictive control of nonlinear systems subject to delayed measurements. 2009 ,	1
598	Global Robust Stabilizing Control for a Dynamic Neural Network System. 2009 , 39, 426-436	15
597	Optimal sliding mode controllers for attitude tracking of spacecraft. 2009 ,	12
596	Optimal Sliding Mode Controllers for Spacecraft Attitude Manoeuvres. 2009 , 42, 173-178	2
595	Inverted Pendulum with Horizontal and Vertical Motion: As a Benchmark of Bilinear System. 2010 , 42, 198-203	
594	Design of a Control Lyapunov Function for Stabilizing Specified States. 2010 , 43, 529-534	1
593	Synthesis of Regular Controls for the Global CLF Stabilization of Nonlinear Systems *. 2010 , 43, 242-248	

592	Dynamic vs static scaling: an existence result. 2010 , 43, 1075-1080		4
591	Stability of quantized time-delay nonlinear systems: a Lyapunov-Krasovskii-functional approach. 2010 , 21, 337-370		63
590	Robust adaptive neuro-fuzzy control of uncertain nonholonomic systems. 2010 , 8, 125-138		6
589	Closed loop stability of measure-driven impulsive control systems. 2010 , 16, 1-21		6
588	Sequential and iterative architectures for distributed model predictive control of nonlinear process systems. <i>AICHE Journal</i> , 2010 , 56, NA-NA	3.6	34
587	Stabilization of sets with application to multi-vehicle coordinated motion. 2010 , 46, 1419-1427		11
586	Stabilization of nonlinear systems with a slowly varying parameter by a control Lyapunov function. 2010 , 49, 215-21		9
585	Nonlinear optimal control of tethered satellite systems using tether offset in the presence of tether failure. 2010 , 66, 1434-1448		14
584	Control functionals in stabilization problem systems with time delay. 2010 , 71, 902-910		3
583	Necessary and sufficient Lyapunov-like conditions for robust nonlinear stabilization. 2010 , 16, 887-928		41
582	Adaptive backstepping for stabilization of switched nonlinear systems. 2010 ,		10
581	Integrator forwarding via dynamic scaling. 2010 ,		4
580	Using computer games for hybrid systems controller synthesis. 2010 ,		7
579	From Artstein-Sontag theorem to the min-projection strategy. 2010 , 32, 571-581		8
578	A Nonlinear Suboptimal Guidance Law with 3D Impact Angle Constraints for Ground Targets. 2010 ,		8
577	Robust nonlinear real-time control strategy to stabilize a PVTOL aircraft in crosswind. 2010 ,		13
576	Design of Affine Controllers via Convex Optimization. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2476-2487	5.9	66
575	. 2010 ,		12

574	Output Feedback Control of Distributed Parameter Systems Using Adaptive Proper Orthogonal Decomposition. 2010 , 49, 10496-10509		28
573	Strict Lyapunov Function Constructions Under LaSalle Conditions With an Application to Lotka-Volterra Systems. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 841-854	5.9	19
572	Simultaneous Quadratic Stabilization for Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 1443-1448	5.9	5
571	Finite-time stabilization of non affine systems a constructive method for polynomial systems. 2010 ,		1
570	CLF-Based Control Design for Unknown Multiinput Nonlinear Systems With Good Transient Performance. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 2635-2640	5.9	13
569	Trajectory-based controller design for hybrid systems with affine continuous dynamics. 2010 ,		12
568	Control of unknown nonlinear systems with efficient transient performance using concurrent exploitation and exploration. 2010 , 21, 1245-61		14
567	Some new notions in the stability investigations and design of controllers for nonlinear systems. 2010 ,		
566	Finite time stabilization of a class of nonlinear systems and its applications. 2011 ,		
565	Finite-Time Chaos Control of the Chaotic Financial System Based on Control Lyapunov Function. 2011 , 55-57, 203-208		3
564	Informatics in Control, Automation and Robotics. <i>Lecture Notes in Electrical Engineering</i> , 2011 ,	0.2	
563	A nonlinear static output controller design for polynomial systems: An iterative sums of squares approach. 2011 ,		2
562	Stabilizing Randomly Switched Systems. 2011 , 49, 2008-2031		31
561	Global stabilization of nonlinear system with developed control Lyapunov function. 2011 , 15, 1110-1114		
560	. 2011 ,		
559	Development and Implementation of Control Algorithms for Synchronous Generator. 2011 , 52, 95-106		1
558	Design of an Error-Based Adaptive Controller for a Flexible Robot Arm Using Dynamic Pole Motion Approach. 2011 , 2011, 1-9		2
557	Optimized-Based Stabilization of Constrained Nonlinear Systems: A Receding Horizon Approach. 2011 , 44, 4904-4908		

556	On Factorization of the Nonlinear Drift Term for SDRE Approach. 2011 , 44, 9607-9612		3
555	On the Global CLF Stabilization of Systems with Polytopic Control Value Sets. 2011 , 44, 11042-11047		
554	Global CLF Stabilization of Nonlinear Systems: A Geometric Point of View. 2011 , 44, 11139-11144		
553	Dynamic Lyapunov Functions. 2011 , 44, 3409-3414		2
552	Input to state stability and allied system properties. 2011 , 72, 1579-1614		97
551	Globally asymptotical stabilisation for a class of feedback linearisable differential inclusion systems. <i>IET Control Theory and Applications</i> , 2011 , 5, 1586-1596	2.5	8
550	Lyapunov Function for Nonuniform in Time Global Asymptotic Stability in Probability with Application to Feedback Stabilization. 2011 , 116, 107-117		9
549	Generalized nonlinear H_∞ synthesis condition with its numerically efficient solution. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 2079-2100	3.6	9
548	Robust receding horizon control based on data mining of nonlinear systems. 2011 ,		
547	. 2011 ,		1
546	Control Lyapunov functions and stabilizability of compact sets for hybrid systems. 2011 ,		3
545	A sensitivity trade-off arising in small-gain design for nonlinear systems: An iISS framework. 2011 ,		0
544	Extended Finite Time Inverse Optimal Control of Nonlinear Systems. 2011 , 403-408, 1499-1502		
543	Networked and Distributed Predictive Control. 2011 ,		42
542	Analysis and design for a set of feedback linearizable systems. 2011 ,		0
541	Iterative learning control of nonlinear systems with time-varying uncertainties. 2011 ,		
540	Oscillating system design applying universal formula for control. 2011 ,		4
539	Feedback stabilization and adaptive stabilization of stochastic nonlinear systems by the control Lyapunov function. 2011 , 83, 179-201		5

538	Static nonsmooth control Lyapunov function design via dynamic extension. 2011,	11
537	A Note on Stabilization of Discrete Nonlinear Systems. 2011, 2011, 1-6	
536	Finite-Time Robust Stabilization for Stochastic Neural Networks. 2012, 2012, 1-15	1
535	Dynamic Feedback Backstepping Control for a Class of MIMO Nonaffine Block Nonlinear Systems. 2012, 2012, 1-18	1
534	Inverse optimal design of a class of stochastic nonlinear systems with uncontrollable linearization. 2012,	
533	Nonlinear and optimal real-time control of a rotary-wing UAV. 2012,	7
532	A scalable iterative convex design for nonlinear systems. 2012,	1
531	Path tracking of a small autonomous airplane in wind gusts. 2012,	0
530	Control lyapunov functions and hybrid zero dynamics. 2012,	39
529	Finite time inverse optimal control of affine nonlinear systems. 2012,	
528	Stabilization for a class of discrete-time stochastic systems with sector nonlinearities and mixed time-delays. 2012,	
527	Nonlinear State Feedback Control For A Class of Polynomial Discrete-time Systems with Norm-Bounded Uncertainties: An Integrator Approach. 2012, 45, 319-324	
526	Discrepancy based control of continuous fluidized bed spray granulation with internal product classification. 2012, 45, 756-761	9
525	Cooperative adaptive optimization for a class of nonlinear systems. 2012, 45, 87-92	1
524	Diskrepanzbasierte Regelung der kontinuierlichen Kristallisation. 2012, 60, 145-154	13
523	Dynamic Coverage and Clustering: A Maximum Entropy Approach. 2012, 215-243	
522	Robust speed control method for permanent magnet synchronous motor. 2012, 6, 399	6
521	New results on sampled-data feedback stabilization for autonomous nonlinear systems. <i>Systems and Control Letters</i> , 2012, 61, 1032-1040	2.4 16

520	Simultaneous H ₂ Stabilization for a Set of Nonlinear Systems. 2012 , 38, 473-481	1
519	. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 135-150	5.9 14
518	Specification of control goals for mechanical systems as function minimization problem. 2012 ,	
517	Control of chaotic systems with uncertain parameters and stochastic disturbance by LMPC. 2012 ,	
516	Fault detection and isolation and fault tolerant control of a catalytic alkylation of benzene process. 2012 , 78, 155-166	11
515	Fundamental problems in geometric control theory. 2012 ,	4
514	On the input-to-state practical stabilization of nonlinear neutral systems. 2012 ,	3
513	Numerical methods of stabilizer construction via guidance control. 2012 , 35, 1670-1680	2
512	Robust adaptive fuzzy control of nonaffine systems guaranteeing transient and steady state error bounds. 2012 , 26, 576-591	11
511	Limit-cycle-like control for planar space robot models with initial angular momenta. 2012 , 74, 20-28	5
510	Model-based control of a fedbatch biodegradation process by the control Lyapunov function approach. 2012 , 189-190, 256-263	4
509	An iterative optimization approach to design of control Lyapunov function. 2012 , 22, 145-155	4
508	Distributed economic MPC: Application to a nonlinear chemical process network. 2012 , 22, 689-699	63
507	Control Lyapunov function optimal sliding mode controllers for attitude tracking of spacecraft. 2012 , 349, 456-475	49
506	A quasi-optimal sliding mode control scheme based on control Lyapunov function. 2012 , 349, 1445-1458	11
505	Exponential Stabilization for a Class of Nonlinear Parabolic PDE Systems via Fuzzy Control Approach. 2012 , 20, 318-329	71
504	Nonlinear model predictive control with regulable computational cost. 2012 , 14, 300-307	3
503	Nonlinear state feedback control for a class of polynomial nonlinear discrete-time systems with norm-bounded uncertainties: An integrator approach. 2013 , 350, 1739-1752	12

502	Analysis of SDC matrices for successfully implementing the SDRE scheme. 2013 , 49, 3120-3124		28
501	Some Results on Stability and Stabilization of Homogeneous Time-Varying Systems. 2013 , 10, 177-188		
500	Decentralized measurement feedback stabilization of large-scale systems via control vector Lyapunov functions. <i>Systems and Control Letters</i> , 2013 , 62, 1187-1195	2.4	9
499	Asymptotic stabilization with locally semiconcave control Lyapunov functions on general manifolds. <i>Systems and Control Letters</i> , 2013 , 62, 902-909	2.4	29
498	Controller design for nonlinear affine systems by control Lyapunov functions. <i>Systems and Control Letters</i> , 2013 , 62, 930-936	2.4	7
497	Nonlinear Lyapunov-based control for HIV-1 dynamics. 2013 ,		1
496	On the Existence of Control Lyapunov Functions and State-Feedback Laws for Hybrid Systems. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 3242-3248	5.9	21
495	On Sontag's formula for the input-to-state practical stabilization of retarded control-affine systems. <i>Systems and Control Letters</i> , 2013 , 62, 1018-1025	2.4	21
494	Global Stabilization of Nonlinear Systems Based on Vector Control Lyapunov Functions. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2550-2562	5.9	13
493	Control of dissipative partial differential equation systems using APOD based dynamic observer designs. 2013 ,		7
492	Numerical Stability Verification of a Two-Dimensional Time-Dependent Nonlinear Shallow Water System Using Multidimensional Wave Digital Filtering Network. 2013 , 32, 299-319		5
491	Real-time Stabilization of a Quadrotor UAV: Nonlinear Optimal and Suboptimal Control. 2013 , 70, 79-91		9
490	A switching robust model predictive control approach for nonlinear systems. 2013 , 23, 852-860		8
489	Background on Nonlinear Systems and Control. 2013 , 9-28		
488	Homogeneous feedback design of differential inclusions based on control Lyapunov functions. 2013 , 18, 2790-2800		4
487	Minimum-Seeking for CLFs: Universal Semiglobally Stabilizing Feedback Under Unknown Control Directions. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1107-1122	5.9	66
486	Dynamic Versus Static Weighting of Lyapunov Functions. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1557-1561	5.9	4
485	Extending satisficing control strategy to slowly varying nonlinear systems. 2013 , 18, 1071-1078		8

484	Designing an optimal control law for nonlinear system by using intelligent algorithm. 2013,		2
483	Composite Antidisturbance Control for a Class of Nonlinear Stochastic Systems via Disturbance Observer. 2013, 2013, 1-7		4
482	Decentralised output-feedback control for a class of stochastic non-linear systems using homogeneous domination approach. <i>IET Control Theory and Applications</i> , 2013, 7, 1098-1109	2.5	17
481	Finite Time Inverse Optimal Stabilization for Stochastic Nonlinear Systems. 2013, 2013, 1-8		2
480	Finite-Time Anti-Disturbance Inverse Optimal Attitude Tracking Control of Flexible Spacecraft. 2013, 2013, 1-13		2
479	CLF-based nonlinear control design for turbocharged Diesel engine. 2013,		1
478	Constructive robust model predictive control for constrained non-linear systems with disturbances. <i>IET Control Theory and Applications</i> , 2013, 7, 1869-1876	2.5	7
477	Vector control Lyapunov functions as a tool for decentralized and distributed control. 2013,		
476	Feedback control law generation for safety controller synthesis. 2013,		5
475	Pointwise minimum norm control laws for hybrid systems. 2013,		3
474	Unifying dynamic economic optimization and model predictive control for optimal process operation. 2013,		1
473	Neural learning of stable dynamical systems based on data-driven Lyapunov candidates. 2013,		18
472	Finite time stabilization of linear systems by state feedback : Application to mixing tank system. 2013,		1
471	Encyclopedia of Systems and Control. 2013, 1-14		
470	Constructive design method of stochastic continuous feedback laws for stabilization of deterministic nonlinear systems. 2013,		2
469	Sufficient conditions for the Lipschitz continuity of QP-based multi-objective control of humanoid robots. 2013,		33
468	Modification to adaptive model reduction for regulation of distributed parameter systems with fast transients. <i>AIChE Journal</i> , 2013, 59, 4595-4611	3.6	37
467	Is dissipativeness ? dissipativeness? ¶When two theories met. 2013,		2

466 . 2013,

465 GLOBAL CLF STABILIZATION OF SYSTEMS WITH POINT-DISSIPATIVE FREE DYNAMICS VIA ADMISSIBLE CONTROLS: CHAOS CONTROL OF A CHUA'S SYSTEM. **2013**, 23, 1350176 5

464 Necessary Conditions for Feedback Passivation of Nonaffine-in-Control Systems. **2013**, 91-97 1

463 Input-to-State Stabilization in the L_p Space of Stabilizable Systems Described by Coupled Delay Differential and Difference Equations. **2013**, 46, 427-432 2

462 Stochastic Asymptotic Stabilizers for Deterministic Input-Affine Systems Based on Stochastic Control Lyapunov Functions. **2013**, E96.A, 1695-1702 8

461 Satisficing Nonlinear Rendezvous Approach Under Control Magnitude and Direction Constraints. **2014**, 37, 497-512 6

460 Stability properties of infected networks with low curing rates. **2014**, 24

459 A New Approach to Stable Optimal Control of Complex Nonlinear Dynamical Systems. **2014**, 81, 30

458 On the control of a vehicle dynamics problem. **2014**,

457 Stability Analysis and Related Control Research of Nonlinear and Uncertain Stochastic Systems with Time-Delay. **2014**, 631-632, 688-691

456 . **2014**, 4

455 Forced nonlinear oscillation of underactuated systems: the balance board example. **2014**, 14, 299-300

454 Analysis of braking dynamics using parameter-dependent polynomial Control Lyapunov Functions. **2014**, 0

453 Finite-time stabilization for a class of stochastic high-order nonlinear systems. **2014**,

452 Diffeomorphism-based control of nonlinear systems subject to state constraints with actual applications. **2014**, 10

451 Global CLF stabilization of systems with polytopic CVS containing 0 in their boundaries, and positive controls. **2014**, 0

450 Observer based inverse optimal attitude stabilization control of spacecraft with uncertainties. **2014**, 1

449 . **2014**, 222

448	Design of decentralized, practically stabilizing controllers for a class of interconnected retarded systems. 2014,		1
447	Uniting Control Lyapunov and Control Barrier Functions. 2014,		27
446	A universal feedback controller for discontinuous dynamical systems using nonsmooth control Lyapunov functions. 2014,		1
445	Homogeneous Feedback Control of Nonlinear Systems Based on Control Lyapunov Functions. 2014 , 16, 1082-1090		2
444	Stabilization analysis of single-input polynomial fuzzy systems using control Lyapunov functions. 2014,		4
443	L2-gain control for discrete-time switched nonlinear control systems. 2014,		
442	Smart manufacturing: Handling preventive actuator maintenance and economics using model predictive control. <i>AICHE Journal</i> , 2014 , 60, 2179-2196	3.6	20
441	Nonlinear automotive actuator analysis based on sum of squares programming. 2014,		3
440	Comparison of linear and nonlinear controller applied to an Antilock Braking System. 2014,		
439	Nonlinear Estimation and Control of Automotive Drivetrains. 2014,		5
438	Anti-disturbance inverse optimal attitude control design for flexible spacecraft with input saturation. 2014,		
437	Lyapunov-based dual-mode method for economic optimization model predictive control. 2014,		1
436	Constrained control Lyapunov function based model predictive control design. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 374-388	3.6	12
435	Robust stabilization of uncertain nonlinear slowly-varying systems: application in a time-varying inertia pendulum. 2014 , 53, 373-9		11
434	Feedback Stabilization Methods for the Solution of Nonlinear Programming Problems. 2014 , 161, 783-806		3
433	Economic model predictive control with time-varying objective function for nonlinear process systems. <i>AICHE Journal</i> , 2014 , 60, 507-519	3.6	41
432	Discrepancy based control of particulate processes. 2014 , 24, 33-46		42
431	Stabilization and Finite Time Stabilization of Nonlinear Differential Inclusions Based on Control Lyapunov Function. 2014 , 33, 2319-2331		2

430	Nonsmooth finite-time stabilization of neural networks with discontinuous activations. 2014 , 52, 25-32	82
429	Models, feedback control, and open problems of 3D bipedal robotic walking. 2014 , 50, 1955-1988	169
428	. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 876-891	5.9 181
427	Clustering and Coverage Control for Systems With Acceleration-Driven Dynamics. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 1342-1347	5.9 5
426	Optimal second order sliding mode control for nonlinear uncertain systems. 2014 , 53, 1191-8	33
425	Global output feedback stabilisation for a class of upper triangular stochastic nonlinear systems. 2014 , 1-12	2
424	Locally optimal controllers and globally inverse optimal controllers. 2014 , 50, 2918-2923	1
423	Robust control design of an electro-hydraulic actuator. 2014 ,	
422	Analysis and control of nonlinear actuator dynamics based on the sum of squares programming method. 2014 ,	0
421	Finite-Time Output Feedback Stabilization for Stochastic High-Order Nonlinear Systems. 2014 , 33, 3809-3837	31
420	Hierarchical design of electro-hydraulic actuator control for vehicle dynamic purposes. 2014 ,	
419	Neural learning of vector fields for encoding stable dynamical systems. 2014 , 141, 3-14	21
418	Robust stabilization of nonlinear time delay systems: A complete type functionals approach. 2014 , 351, 207-224	4
417	. 2014 , 50, 756-763	9
416	Event-based Stabilization of Nonlinear Time-Delay Systems. 2014 , 47, 6953-6958	6
415	Discontinuous Control of Nonlinear Systems with convex input constraint via Locally Semiconcave Control Lyapunov Functions. 2014 , 47, 8629-8635	1
414	Set-based analysis of the variable-geometry suspension system. 2014 , 47, 11201-11206	3
413	Optimized-Based Stabilization of Constrained Nonlinear Systems: A Receding Horizon Approach. 2014 , 16, 1693-1701	9

412	Inverse optimality for a class of nonlinear time delay systems: A constructive approach. 2014,		1
411	Global CLF stabilization of systems with respect to a hyperbox, allowing the null-control input in its boundary (positive controls). 2014,		0
410	Approximate optimal control by inverse CLF approach. 2015, 48, 286-291		3
409	Set-Based Actuator Reconfiguration Analysis for the Integrated Control of Lateral Vehicle Dynamics. 2015, 48, 368-373		
408	Multiple CLFs for Stabilization of Nonlinear Systems with Input Constraints. 2015,		
407	Robustness of Control Barrier Functions for Safety Critical Control**This work is partially supported by the National Science Foundation Grants 1239055, 1239037 and 1239085.. 2015, 48, 54-61		119
406	Linearizing and stabilizing discontinuous feedbacks for delay systems as stabilizers in the sample-and-hold sense. 2015,		
405	Sufficient lie algebraic conditions for sampled-data feedback stabilization. 2015,		10
404	Distributed Coordinated Control of Large-Scale Nonlinear Networks. 2015, 48, 240-245		2
403	Stabilization in the Sample-and-Hold Sense of Nonlinear Retarded Systems: Further insights and perspectives. 2015,		4
402	Real-time preventive sensor maintenance using robust moving horizon estimation and economic model predictive control. <i>AICHE Journal</i> , 2015, 61, 3374-3389	3.6	16
401	On identification of well-conditioned nonlinear systems: Application to economic model predictive control of nonlinear processes. <i>AICHE Journal</i> , 2015, 61, 3353-3373	3.6	19
400	Lyapunov Characterization for the Stability of Stochastic Control Systems. 2015, 2015, 1-7		3
399	Safety Controller Synthesis Using Human Generated Trajectories. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 1597-1610	5.9	4
398	A Universal Feedback Controller for Discontinuous Dynamical Systems Using Nonsmooth Control Lyapunov Functions. 2015, 137,		2
397	Stabilization of Artstein's circle by continuous stochastic feedback. 2015,		
396	Feedback stabilization via rational control Lyapunov functions. 2015,		2
395	Event-Triggered linear control design for an Antilock Braking System. 2015,		0

394	Canonical forms for stochastic nonlinear affine systems with unknown parameters. 2015 ,		
393	3D inverted pendulum stabilization on a quadrotor via bilinear system approximations. 2015 ,		2
392	Control design for nonlinear differential inclusions based on CLFs. 2015 ,		
391	Analysis of the urban network gating problem: An SOS programming approach. 2015 ,		1
390	Generalized Minimum Projection Method and Its Application to Two Wheeled Mobile Robot Control. 2015 , 48, 168-173		2
389	Economic model predictive control of nonlinear process systems using empirical models. <i>AICHE Journal</i> , 2015 , 61, 816-830	3.6	41
388	Fault recoverability and fault tolerant control for a class of interconnected nonlinear systems. 2015 , 54, 49-55		74
387	On the stability of a class of nonlinear control systems. 2015 , 80, 1245-1256		5
386	Stabilization of Polynomial Nonlinear Systems by Algebraic Geometry Techniques. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 2482-2487	5.9	6
385	Hierarchical design of an electro-hydraulic actuator based on robust LPV methods. 2015 , 88, 1429-1440		9
384	Design of APOD-based switching dynamic observers and output feedback control for a class of nonlinear distributed parameter systems. 2015 , 136, 62-75		20
383	Optimal stable control for nonlinear dynamical systems: an analytical dynamics based approach. 2015 , 82, 547-562		27
382	Learning robot motions with stable dynamical systems under diffeomorphic transformations. 2015 , 70, 1-15		30
381	Robustification of nonlinear stabilizers in the sample-and-hold sense. 2015 , 352, 4107-4128		23
380	Inverse optimal sliding mode control of spacecraft with coupled translation and attitude dynamics. 2015 , 46, 2421-2438		20
379	Universal stabilisation design for a class of non-linear systems with time-varying input delays. <i>IET Control Theory and Applications</i> , 2015 , 9, 1481-1490	2.5	10
378	Flow functions, control flow functions, and the reach control problem. 2015 , 55, 108-115		10
377	Nonlinear suboptimal synchronized control for relative position and relative attitude tracking of spacecraft formation flying. 2015 , 352, 1495-1520		16

376	Robust optimal sliding mode control for spacecraft position and attitude maneuvers. 2015 , 43, 329-342		62
375	Dynamics and control of a multi-body planar pendulum. 2015 , 81, 845-866		36
374	Simultaneous stabilization for a collection of multi-input nonlinear time-delay systems. 2015 ,		1
373	On optimisation programmes with hidden convexity. 2015 ,		
372	Economic model predictive control of nonlinear process systems using multiple empirical models. 2015 ,		2
371	Lyapunov-Razumikhin Methods For Stabilization in the Sample-and-Hold Sense of Retarded Nonlinear Systems. 2015 , 197-204		3
370	Model Predictive Frequency Control employing stability constraints. 2015 ,		3
369	A simplified adaptive neural network prescribed performance controller for uncertain MIMO feedback linearizable systems. 2015 , 26, 589-600		59
368	Inverse Optimal Attitude Stabilization of Flexible Spacecraft with Actuator Saturation. 2016 , 2016, 1-14		2
367	Stabilization by unbounded-variation noises. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 4126-4147	3.6	3
366	Performance improvement of SISO linear control systems by hybrid state resetting and sector confinement of trajectories. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 4008-4034	3.6	1
365	A feedback control framework for safe and economically-optimal operation of nonlinear processes. <i>AICHE Journal</i> , 2016 , 62, 2391-2409	3.6	21
364	Global CLF stabilization of systems allowing the null-control input in the boundary of compact control value sets: An approximation approach. 2016 ,		
363	Finite-time state feedback stabilization for a class of stochastic nonlinear systems. 2016 ,		
362	Controller synthesis for stochastic systems with persistent noise via semi-definite programming. 2016 ,		
361	A gradient descent control for output tracking of a class of non-minimum phase nonlinear systems. 2016 , 14, 383-395		4
360	Integrating production scheduling and process operation via economic model predictive control. 2016 ,		1
359	On robustness of Lyapunov-based nonlinear adaptive controllers. 2016 , 49, 229-234		1

358	Static Smooth Control Lyapunov Function Design for differentially Flat Systems. 2016 , 49, 241-246		7
357	The impact of suspension control on the controllability of the lateral vehicle dynamics. 2016 ,		
356	Robust controller synthesis of switched systems using counterexample guided framework. 2016 ,		14
355	On SDRE method using by coordinate transformation for an obstacle avoidance problem. 2016 ,		
354	New results in global stabilization for stochastic nonlinear systems. 2016 , 14, 57-67		3
353	Fault tolerant control for plug-and-play interconnected nonlinear systems. 2016 , 353, 2199-2217		4
352	Event--Selected Vector Field Discontinuities Yield Piecewise--Differentiable Flows. 2016 , 15, 1227-1267		9
351	On the dynamics of a generalized predator-prey system with Z-type control. 2016 , 280, 10-23		15
350	Stabilization of retarded systems of neutral type by control Lyapunov-Krasovskii functionals. <i>Systems and Control Letters</i> , 2016 , 94, 142-151	2-4	9
349	Finite-time stability and stabilization of stochastic nonlinear systems with Markovian switching. 2016 ,		3
348	On elimination of state constraints in the construction of reachable sets. 2016 , 292, 115-124		1
347	On estimates of reachable sets of nonlinear control systems with state constraints. 2016 ,		
346	Analysis and synthesis of nonlinear controllers for input constrained systems using semidefinite programming optimization. 2016 ,		5
345	Application of penalty function method to computation of reachable sets for control systems with state constraints. 2016 ,		5
344	Backstepping-Based Lyapunov Function Construction Using Approximate Dynamic Programming and Sum of Square Techniques. 2017 , 47, 3393-3403		16
343	Anti-disturbance inverse optimal control for spacecraft position and attitude maneuvers with input saturation. 2016 , 8, 168781401664988		9
342	General Formula for Event-Based Stabilization of Nonlinear Systems with Delays in the State. 2016 , 59-77		4
341	Strong iISS for a class of systems under saturated feedback. 2016 , 71, 272-280		8

340	A Reset-Time Dependent Approach for Stability Analysis of Nonlinear Reset Control Systems. 2016 , 18, 1856-1866		1
339	A universal design of Freeman's formula for the stabilization of stochastic systems. 2016 , 34, 137-146		
338	Output Feedback Stabilization and Estimation of the Region of Attraction for Nonlinear Systems: A Vector Control Lyapunov Function Perspective. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 4034-4040	5.9	11
337	A constructive approach for an optimal control applied to a class of nonlinear time delay systems. 2016 , 40, 35-49		14
336	Global Asymptotic Stabilization of Nonlinear Deterministic Systems Using Wiener Processes. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 2318-2323	5.9	9
335	Networked predictive control for nonlinear systems with stochastic disturbances in the presence of data losses. 2016 , 194, 56-64		6
334	Disturbance observer based optimal second order sliding mode controller for nonlinear systems with mismatched uncertainty. 2016 ,		3
333	Stabilization with guaranteed safety using Control Lyapunov Barrier Function. 2016 , 66, 39-47		115
332	Inverse Optimal Sliding Mode Guidance Law against Maneuvering Targets. 2016 ,		
331	Finite-Time Stabilization and Optimal Feedback Control. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1069-1074	5.9	58
330	Stabilization of Nonlinear Delay Systems: A Tutorial on Recent Results. 2016 , 1-41		8
329	An SOS-Based Control Lyapunov Function Design for Polynomial Fuzzy Control of Nonlinear Systems. 2017 , 25, 775-787		26
328	CLFs-based optimization control for a class of constrained visual servoing systems. 2017 , 67, 507-514		5
327	Control Contraction Metrics: Convex and Intrinsic Criteria for Nonlinear Feedback Design. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3046-3053	5.9	68
326	Predictor control for multi-input non-linear systems with time- and state-dependent input delays. <i>IET Control Theory and Applications</i> , 2017 , 11, 495-503	2.5	3
325	Nonsmooth and discontinuous speed-gradient algorithms. 2017 , 25, 99-113		5
324	On Control Lyapunov-Bazumikhin Functions, Nonconstant Delays, Nonsmooth Feedbacks, and Nonlinear Sampled-Data Stabilization. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5604-5619	5.9	17
323	On the stabilization of quadratic nonlinear systems. 2017 , 35, 28-33		3

322	Nonlinear stabilization for a class of time delay systems via inverse optimality approach. 2017 , 67, 1-8		7
321	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3861-3876	5.9	377
320	Safety verification for distributed parameter systems using barrier functionals. <i>Systems and Control Letters</i> , 2017 , 108, 33-39	2.4	12
319	Energy Efficient and Robust Balancing with Motion Primitive Switching. 2017 , 14, 1750009		3
318	Control design of an electro-hydraulic actuator for variable-geometry suspension systems. 2017 ,		1
317	Nonlinear stabilization via Control Contraction Metrics: A pseudospectral approach for computing geodesics. 2017 ,		17
316	Combining Control Lyapunov and Barrier Functions for constrained stabilization of nonlinear systems. 2017 ,		12
315	Control design of traffic flow using look-ahead vehicles to increase energy efficiency. 2017 ,		2
314	Robustification of sample-and-hold stabilizers for control-affine time-delay systems. 2017 , 83, 141-154		21
313	An economic model predictive control approach to integrated production management and process operation. <i>AIChE Journal</i> , 2017 , 63, 1892-1906	3.6	8
312	Sampled-Data Stabilization of Nonlinear Dynamics With Input Delays Through Immersion and Invariance. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2561-2567	5.9	22
311	Background on Nonlinear Systems, Control, and Optimization. 2017 , 21-55		
310	Finite-Time Stabilization of a Class of TS Fuzzy Systems. 2017 , 25, 1824-1829		17
309	A Tool for the Global Stabilization of Stochastic Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1946-1951	5.9	6
308	Asymptotically exact stabilisation for constrained discrete Takagi-Sugeno systems via set-invariance. 2017 , 316, 117-138		16
307	Lyapunov-Based EMPC: Closed-Loop Stability, Robustness, and Performance. 2017 , 75-133		
306	Quadratic-like stability of nonlinear homogeneous systems. 2017 ,		4
305	Asymptotic Stabilization of Nonlinear Systems with Convex-Polytope Input Constraints and its Inverse Optimality * *This work is partially supported by JSPS KAKENHI Grant Number 16H04380.. 2017 , 50, 1397-1402		2

304	Globally Stabilizing Finite-Dimensional Damping Control for Dissipative PDE with Bounded Inputs. 2017 , 50, 7115-7120		1
303	Erweiterte Regelungskonzepte auf Basis der exakten Linearisierung. 2017 , 223-273		
302	Design of quasi-optimal regulators for quadratically-cubic control objects using generalized work criterion. 2017 ,		1
301	A Control Barrier Function Approach for the Robust Lateral Control of Steer-by-Wire Vehicles. 2017 ,		1
300	Robust global nonlinear sampled-data regulator for the Glucose-Insulin system. 2017 ,		5
299	Fault tolerant safe control for nonlinear systems and its applications on hypersonic vehicles. 2017 ,		
298	Static smooth path-following control Lyapunov function design via minimum projection method. 2017 ,		
297	Reactive controller synthesis for UAV mission planning. 2017 ,		0
296	Nonlinear hovering control laws for small vectored-thrust tail-sitter UAVs. 2017 ,		1
295	Stabilization of nonlinear homogeneous systems. <i>IMA Journal of Mathematical Control and Information</i> , 2017 ,	1.1	
294	Algebraic Certificates of (Semi)Definiteness for Polynomials Over Fields Containing the Rationals. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 158-173	5.9	4
293	Optimal steering stabilization of an autonomous underwater vehicle using nonlinear output feedback control. 2018 ,		1
292	Input-to-State Stability Based Control of Doubly Fed Wind Generator. 2018 , 33, 2949-2961		10
291	Inverse optimal design of input-to-state stabilisation for affine nonlinear systems with input delays. 2018 , 49, 833-847		3
290	Curved Path Following Control for Fixed-wing Unmanned Aerial Vehicles with Control Constraint. 2018 , 89, 107-119		20
289	Input-to-State Stability and Inverse Optimality of Linear Time-Varying-Delay Predictor Feedbacks. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 233-240	5.9	24
288	Robust perimeter control for two urban regions with macroscopic fundamental diagrams: A control-Lyapunov function approach. 2018 , 117, 687-707		28
287	Utilizing null controllable regions to stabilize input-constrained nonlinear systems. <i>Computers and Chemical Engineering</i> , 2018 , 108, 24-30	4	13

286	Feedback stabilization of positive nonlinear systems with applications to biological systems. 2018 ,		2
285	Feedback Stabilization Using Koopman Operator. 2018 ,		14
284	On Dynamical Feedback Control Design for Generalized Homogeneous Differential Inclusions. 2018		2
283	Path-Following through Control Funnel Functions. 2018 ,		2
282	Adaptive Robust Control of Biomass Fuel Co-Combustion Process. 2018 ,		
281	Unsafe Point Avoidance in Linear State Feedback. 2018 ,		6
280	Local Minimum Connection for Static Smooth Control Lyapunov Function. 2018 , 51, 272-278		1
279	Safety Control Synthesis with Input Limits: a Hybrid Approach. 2018 ,		3
278	Adaptive synchronization in networks with heterogeneous uncertain Kuramoto-like units. 2018 ,		4
277	Control Lyapunov-Barrier Function-Based Model Predictive Control of Nonlinear Systems. 2018 ,		3
276	Global finite-time control for a class of switched nonlinear systems with different powers via output feedback. 2018 , 49, 2776-2783		19
275	. 2018 ,		6
274	Stabilisation of state-and-input constrained nonlinear systems via diffeomorphisms: A Sontag's formula approach with an actual application. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4032-4044	3.6	2
273	Lyapunov Design for Event-Triggered Exponential Stabilization. 2018 ,		3
272	Robust control barrier functions for constrained stabilization of nonlinear systems. 2018 , 96, 359-367		56
271	A new approach to design asymptotically stabilizing control and adaptive control. 2018 , 39, 1952-1964		5
270	Safeness Index-Based Economic Model Predictive Control of Stochastic Nonlinear Systems. 2018 , 6, 69		4
269	Simultaneous stabilization for a set of multi-input nonlinear systems with time-delay. 2018 ,		

268	Simultaneous stabilization for a collection of single-input nonlinear time-delay systems with uncertain parameters. 2018,		0
267	Control Barrier Functions for Constrained Control of Linear Systems with Input Delay. 2018,		6
266	Dissipative distributed parameter systems on-line reduction and control using DEIM/APOD combination. 2018,		1
265	Control Contraction Metrics on Finsler Manifolds. 2018,		4
264	Using Null Controllable Regions to Stabilize Nonlinear Systems. 2018,		1
263	State Dependent Riccati Equation Based Rotor-Side Converter Control for Doubly Fed Wind Generator. <i>IEEE Access</i> , 2018 , 6, 27853-27863	3.5	7
262	Event triggered control for a switched LPV system with applications to aircraft engines. <i>IET Control Theory and Applications</i> , 2018 , 12, 1505-1514	2.5	14
261	Control Approaches for Parallel Source Converter Systems. 2018 , 111-217		
260	Analysis of extremum value theorems for function spaces in optimal control under numerical uncertainty. <i>IMA Journal of Mathematical Control and Information</i> , 2019 , 36, 1015-1032	1.1	1
259	An iterative method for suboptimal control of a class of nonlinear time-delayed systems. 2019 , 92, 2869-2885		2
258	. 2019 , 3, 108-113		43
257	A Robustness Consideration in Continuous Time \mathcal{H}_∞ Sector for Nonlinear System. <i>IEEE Access</i> , 2019 , 7, 30628-30636	3.5	7
256	Control Barrier Functions: Theory and Applications. 2019,		186
255	Input-to-state Stability of Nonlinear Positive Systems. 2019 , 17, 3058-3068		8
254	Distributed Parameter Control Method for Axial Neutron Flux in Fast Nuclear Reactor. 2019 , 66, 899-910		3
253	Control Lyapunov-Barrier function-based model predictive control of nonlinear systems. 2019 , 109, 108508		18
252	Koopman Lyapunov-based model predictive control of nonlinear chemical process systems. <i>AIChE Journal</i> , 2019 , 65, e16743	3.6	22
251	Fault-tolerant safe control design of switched and interconnected nonlinear systems. 2019 , 356, 8929-8951		6

250	Optimizing process economics and operational safety via economic MPC using barrier functions and recurrent neural network models. 2019 , 152, 455-465	8
249	Analytical Infinite-time Optimal and Sub-optimal Controllers for Scalar Nonlinear Systems using Krotov Sufficient Conditions. 2019 ,	1
248	Constrained Stabilization of Multi-Input Linear Systems with Distinct Input Delays. 2019 , 52, 82-87	1
247	Conditions for fixed-time stability and stabilization of continuous autonomous systems. <i>Systems and Control Letters</i> , 2019 , 129, 26-35	2.4 28
246	Global stabilization of nonlinear systems via hybrid implementation of dynamic continuous-time local controllers. 2019 , 106, 401-405	1
245	Convex Optimization-based Controller Design for Stochastic Nonlinear Systems using Contraction Analysis. 2019 ,	4
244	Episodic Learning with Control Lyapunov Functions for Uncertain Robotic Systems*. 2019 ,	19
243	Universal Feedback Controllers and Inverse Optimality for Nonlinear Stochastic Systems. 2019 ,	
242	A Characterization of Finite-Time Stability With Density Functions. 2019 ,	
241	Constrained control Lyapunov function construction via approximation of static Hamilton-Jacobi-Bellman equations. 2019 ,	
240	A Control Lyapunov Perspective on Episodic Learning via Projection to State Stability. 2019 ,	4
239	Universal formula for robust stabilization of affine nonlinear multistable systems. 2019 ,	
238	Simultaneous stabilization for a collection of stochastic nonlinear systems based on CLFs. 2019 ,	1
237	A Control Lyapunov Function Approach Using Quantifier Elimination. 2019 ,	
236	Universal Formula for Smooth Safe Stabilization. 2019 ,	3
235	. 2019 ,	0
234	. 2019 ,	
233	Finite Horizon Backward Reachability Analysis and Control Synthesis for Uncertain Nonlinear Systems. 2019 ,	4

232	On Impact of Unsafe Set Structure in Control Lyapunov-Barrier Function-Based Model Predictive Control. 2019 ,		
231	. 2019 ,		4
230	Observer-based stabilization of sector-bounded nonlinear stochastic systems in the presence of intermittent measurements. 2019 , 346, 740-752		1
229	Handling bounded and unbounded unsafe sets in Control Lyapunov-Barrier function-based model predictive control of nonlinear processes. 2019 , 143, 140-149		8
228	Learning control lyapunov functions from counterexamples and demonstrations. 2019 , 43, 275-307		11
227	Sliding mode control design using canonical homogeneous norm. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 682-701	3.6	21
226	A linear algebra method to decompose forms whose length is lower than the number of variables into weighted sum of squares. 2019 , 92, 2647-2666		1
225	Stabilization of a class of nonlinear control systems via a neural network scheme with convergence analysis. 2020 , 24, 1957-1970		0
224	Lyapunov Event-Triggered Stabilization With a Known Convergence Rate. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 507-521	5.9	13
223	. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3229-3240	5.9	3
222	Hybrid Control for Robust and Global Tracking on Smooth Manifolds. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 1870-1885	5.9	5
221	State-Constrained Nonlinear L2-Gain Control. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 771-777	5.9	1
220	Control Lyapunov-Barrier function-based predictive control of nonlinear processes using machine learning modeling. <i>Computers and Chemical Engineering</i> , 2020 , 134, 106706	4	10
219	Berechnung gesicherter Einzugsgebiete für nichtlineare Systeme mit Hilfe von BŁout-Matrizen. 2020 ,		
218	Stabilization with guaranteed safety using Barrier Function and Control Lyapunov Function. 2020 , 357, 10472-10491		
217	Incorporating Structural Process Knowledge in Recurrent Neural Network Modeling of Nonlinear Processes. 2020 ,		
216	Adaptive Safety with Control Barrier Functions. 2020 ,		25
215	Stabilization of Nonlinear Control-Affine Systems With Multiple State Constraints. <i>IEEE Access</i> , 2020 , 8, 179735-179744	3.5	2

214	ISS of predictor feedback for multi-input affine nonlinear systems with distinct input delays. 2020 , 51, 2326-2342		0
213	Control Lyapunov-Barrier Function-Based Predictive Control of Nonlinear Systems Using Machine Learning Models. 2020 ,		0
212	Visual servo optimization stabilization of nonholonomic mobile robots based on control Lyapunov functions. 2020 , 53, 1825-1831		1
211	Prescribed-time Convergence with Input Constraints: A Control Lyapunov Function Based Approach. 2020 ,		3
210	Trajectory tracking control of a wheeled mobile robot in the presence of matched uncertainties via a composite control approach. 2020 ,		2
209	Control of semilinear dissipative distributed parameter systems with minimum feedback information. 2020 ,		
208	Input-to-State Stability Analysis of Subhomogeneous Cooperative Systems. <i>IEEE Access</i> , 2020 , 8, 90132-90140		4
207	Robust feedback stabilisation of homogeneous differential inclusions. 2020 , 1-9		2
206	Spacecraft trajectory tracking and parameter estimation around a splitting contact binary asteroid. 2020 , 171, 280-289		2
205	Hybrid robust and optimal control for pointing a staring-mode spacecraft. 2020 , 105, 105959		5
204	Rigid spacecraft robust optimal attitude stabilization under actuator misalignments. 2020 , 105, 105990		8
203	Safe Controller Synthesis for Data-Driven Differential Inclusions. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 4934-4940	5.9	6
202	Simultaneous Facility Location and Path Optimization in Static and Dynamic Networks. 2020 , 7, 1700-1711		1
201	Safe reinforcement learning for dynamical games. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 3706-3726	3.6	22
200	Safe nonlinear control design for input constrained polynomial systems using sum-of-squares programming. 2020 , 1-11		2
199	Model-based reinforcement learning for nonlinear optimal control with practical asymptotic stability guarantees. <i>AICHE Journal</i> , 2020 , 66, e16544	3.6	3
198	From inverse optimal control to inverse reinforcement learning: A historical review. 2020 , 50, 119-138		14
197	Exponential small-gain theorem and fault tolerant safe control of interconnected nonlinear systems. 2020 , 115, 108866		3

196	Real-time machine learning for operational safety of nonlinear processes via barrier-function based predictive control. 2020 , 155, 88-97			3
195	Optimal Output Feedback Diving Control of Autonomous Underwater Vehicle Using Robust State Estimators. 2020 ,			
194	Process structure-based recurrent neural network modeling for model predictive control of nonlinear processes. 2020 , 89, 74-84			30
193	Design of adaptive optimal robust control for two-flexible-link manipulators in the presence of matched uncertainties. 2021 , 27, 612-628			3
192	Adaptive Nonlinear Control With Contraction Metrics. 2021 , 5, 205-210			7
191	Simultaneous stabilization of single-input nonlinear systems with bounded controls. 2021 , 9, 550-556			2
190	Construction of Continuous and Piecewise Affine Feedback Stabilizers for Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 4059-4068	5.9		0
189	Continuous simultaneous stabilization of single-input nonlinear stochastic systems. 2021 , 23, 82-91			0
188	Event-Triggered Control of Nonlinear Systems With Time-Varying State Delays. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 2846-2853	5.9		11
187	Integral Control Barrier Functions for Dynamically Defined Control Laws. 2021 , 5, 887-892			7
186	Finite-Dimensional Periodic Event-Triggered Control of Nonlinear Time-Delay Systems With an Application to the Artificial Pancreas. 2021 , 5, 31-36			5
185	Optimal adaptive backstepping control for chaos synchronization of nonlinear dynamical systems. 2021 , 291-345			3
184	Plug and play control for islanded microgeneration systems. 2021 , 123-172			
183	Inverse Optimal Design of Direct Adaptive Fuzzy Controllers for Uncertain Nonlinear Systems. 2021 , 1-1			4
182	Encyclopedia of Systems and Control. 2021 , 794-803			
181	Optimal Control and Stability Analysis of Nonlinear Control-Affine Systems. 2021 , 1730, 012076			
180	Robust Safety-Critical Control for Dynamic Robotics. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9		8
179	Input-to-state stability and Lyapunov functions with explicit domains for SIR model of infectious diseases. 2021 , 26, 5171			6

178	A New Approach to the Design of Sampled--Data Dynamic Output Feedback Stabilizers. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
177	Machine-learning-based state estimation and predictive control of nonlinear processes. 2021 , 167, 268-280		7
176	Robust control MinkowskiLyapunov functions. 2021 , 125, 109437		2
175	A Strict Smooth Lyapunov Function and Input-to-State Stability of SIR Model. 2021 ,		4
174	Disturbance attenuation control for LVRT capability enhancement of doubly fed wind generators. 2021 , 15, 2582-2592		1
173	Characterization of Domain of Fixed-time Stability under Control Input Constraints. 2021 ,		2
172	Constraint learning for control tasks with limited duration barrier functions. 2021 , 127, 109504		1
171	Gaussian Process-based Min-norm Stabilizing Controller for Control-Affine Systems with Uncertain Input Effects and Dynamics. 2021 ,		2
170	. 2021 ,		
169	Control of Nonlinear Systems with Reach-Avoid-Stay Specifications: A Lyapunov-Barrier Approach with an Application to the Moore-Greizer Model. 2021 ,		0
168	Controllability minimum principle based construction of the null controllable region for nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 6025-6038	3.6	2
167	Control MinkowskiLyapunov functions. 2021 , 128, 109598		2
166	A Jurdjevic-Quinn theorem for nonlinear stochastic systems. 1-11		
165	Neural Identification for Control. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 4648-4655	4.2	1
164	Optimal control of port-Hamiltonian systems: A continuous-time learning approach. 2021 , 130, 109725		2
163	Lyapunov based on-line model reduction and control of semilinear dissipative distributed parameter systems with minimum feedback information. 2021 , 104, 135-145		
162	Learning feedback Nash strategies for nonlinear port-Hamiltonian systems. 1-23		
161	Machine-learning-based construction of barrier functions and models for safe model predictive control. <i>AIChE Journal</i> , e17456	3.6	1

160	Robust Controller Design for Stochastic Nonlinear Systems via Convex Optimization. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 4731-4746	5.9	11
159	Combining Model-Based Design and Model-Free Policy Optimization to Learn Safe, Stabilizing Controllers. 2021 , 54, 19-24		1
158	Lyapunov-Based Model Predictive Control. 2011 , 13-45		3
157	Recursive Designs and Feedback Passivation. 1997 , 313-326		5
156	Mathematics of Complexity and Dynamical Systems. 2012 , 1639-1652		4
155	Activation of Nonlinear Feedback Concepts. 2000 , 379-389		2
154	Data-Driven Nonlinear Stabilization Using Koopman Operator. 2020 , 313-334		5
153	General Classes of Control-Lyapunov Functions. 1996 , 87-96		6
152	Stabilization of controllable systems. 1996 , 365-388		2
151	Towards the Unification of Locomotion and Manipulation through Control Lyapunov Functions and Quadratic Programs. 2013 , 219-240		47
150	Optimal Controller Gain Tuning for Robust Stability of Spacecraft Formation. <i>Lecture Notes in Electrical Engineering</i> , 2011 , 335-347	0.2	1
149	Dynamic Optimization Using Analytic and Evolutionary Approaches: A Comparative Review. 2013 , 1-28		3
148	On the stabilization of some nonlinear control systems: results, tools, and applications. 1999 , 307-367		8
147	Integral Sliding Mode for Nonlinear System: A Control-Lyapunov Function Approach. 2021 , 813-823		1
146	RECENT ADVANCES IN THE STABILIZATION PROBLEM FOR LOW DIMENSIONAL SYSTEMS. 1993 , 1-8		8
145	LYAPUNOV DESIGN OF A DYNAMIC OUTPUT FEEDBACK FOR SYSTEMS LINEAR IN THEIR UNMEASURED STATE COMPONENTS. 1993 , 63-68		3
144	FEEDBACK STABILIZATION OF HOMOGENEOUS POLYNOMIAL SYSTEMS. 1995 , 137-141		1
143	Nonlinear analysis and control of a variable-geometry suspension system. 2017 , 61, 279-291		8

142	Learning Control Barrier Functions from Expert Demonstrations. 2020 ,	12
141	Learning Min-norm Stabilizing Control Laws for Systems with Unknown Dynamics. 2020 ,	1
140	Universal Feedback Controllers and Inverse Optimality for Nonlinear Stochastic Systems. 2020 , 142,	2
139	Robust Asymptotic Stabilization of Hybrid Systems using Control Lyapunov Functions. 2016 ,	6
138	Data-Based Nonlinear Model Identification in Economic Model Predictive Control. 2018 , 2, 20180025	7
137	Funç� energia generalizada de controle para estabiliza� de sistemas n� lineares. 2009 , 20, 133-145	3
136	Simultaneous Stabilization for a Collection of Multi-input Nonlinear Systems with Uncertain Parameters. 2009 , 35, 206-209	4
135	Simultaneous H� Stabilization for a Class of Multi-input Nonlinear Systems. 2012 , 38, 473-478	2
134	Feedback stabilization methods for the numerical solution of ordinary differential equations. 2011 , 16, 283-317	12
133	Control Lyapunov Function Design by Cancelling Input Singularity. 2012 , 12, 131-136	2
132	A K, KL sector based Hands-off control with quantization parameter mismatch. 2021 , 1-1	
131	Safe Learning for Control using Control Lyapunov Functions and Control Barrier Functions: A Review. 2021 , 192, 3987-3997	2
130	Adaptive neural inverse optimal tracking control for uncertain multi-agent systems. 2021 , 584, 31-31	1
129	. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 5362-5368	5.9
128	Receding Horizon Control. 2003 , 9, 177-185	
127	Support Vector Machine Adaptive Control of Nonlinear Systems. 2005 , 159-168	
126	Neural Network Control of Unknown Nonlinear Systems with Efficient Transient Performance. 2009 , 638-647	
125	Encyclopedia of Complexity and Systems Science. 2009 , 8616-8630	

124 Distributed Model Predictive Control System Design Using Lyapunov Techniques. **2009**, 181-194

123 Inverse optimal control of nonlinear systems with structural uncertainty. **2009**, 10, 2651-2659

122 Global Asymptotic Stabilization for a Nonlinear System on a Manifold via a Dynamic Compensator. **2010**, 46, 598-606

121 Robust Output Feedback Stabilization. **2011**, 261-353

120 Distributed Model Predictive Control: Two-Controller Cooperation. **2011**, 99-133

119 Continuous Stabilizing of First Order Single Input Nonlinear Systems. **2011**, 02, 182-185

118 Distributed Model Predictive Control: Multiple-Controller Cooperation. **2011**, 135-192

117 Digital Control with One Sampling Delay Focused on Value of Control Lyapunov Function of Continuous-time System. **2012**, 48, 889-897

116 Control and Fault-Handling Subject to Asynchronous Measurements. **2013**, 205-252 1

115 Control of Hybrid Systems: An Overview of Recent Advances. 145-178 2

114 Speed-Gradient Control of Mechanical Systems with Constraints. **2014**, 21-29 1

113 Semi-global Feedback Control System Design in an Unknown Plane at an Unknown Destination. **2014**, 50, 775-783 0

112 Stabilization Inverse Optimal Control of Nonlinear Systems with Structural Uncertainty. *Lecture Notes in Electrical Engineering*, **2014**, 1343-1348 0.2

111 Stability. **2014**, 57-90

110 Ongoing and Future Work. **2014**, 107-118

109 STABILIZATION OF NONLINEAR SYSTEMS BY USING INTEGRATORS. **1993**, 409-412

108 EXTERNAL STABILITY OF NONLINEAR SYSTEMS. **1995**, 197-202

107 LYAPUNOV AND ISS FRAMEWORKS FOR ADAPTIVE NONLINEAR STABILIZATION **This work was supported in part by the National Science Foundation under Grant ECS-9203491 and in part by the Air Force Office of Scientific Research under Grant F-49620-92-J-0495.. **1995**, 103-108

- 106 High-order neural network systems in the identification of dynamical systems. **1998**, 279-305
- 105 Nonlinear Control of Convex Input Costrained Nonlinear Systems Based on Locally Semiconcave Control Lyapunov Functions. **2015**, 51, 92-100
- 104 Application of Nonlinear Controller Design Based on a Geometric Consideration in the Phase Plane Behavior for Multi Input Nonlinear Systems. **2015**, 51, 430-439
- 103 Trajectory-Based Theory for Hybrid Systems. **2015**, 363-384
- 102 Towards Safe Robotic Surgical Systems. **2015**, 165-175
- 101 On reachability analysis for nonlinear control systems with state constraints. **2015**, 0
- 100 ISS Robustification for Stabilizable Systems Described by Retarded Functional Differential Equations and Functional Difference Equations. **2016**, 191-205
- 99 Models and Stabilization for Mechanical Systems with Propagation and Linear Motion Coordinates. **2016**, 149-167
- 98 Automatic Synthesis of Controllers from Specifications using Control Certificates. 232, 17-20
- 97 A Novel Continuous Feedback Control for Rapidly Exponentially Stabilisation of Mechanical Systems. *Lecture Notes in Electrical Engineering*, **2018**, 61-70 0.2
- 96 A Class of Control Certificates to Ensure Reach-While-Stay for Switched Systems. 260, 44-61 1
- 95 Static State Feedback Controller Design for the Differentially Flat Systems via Minimum Projection Method. **2018**, 54, 865-871
- 94 A Small-Gain Method for the Design of Decentralized Stabilizing Controllers for Interconnected Systems with Delays. **2019**, 99-114 1
- 93 Design and Experimental Verification of Two-Dimensional Rate Limiters in Trajectory Generation for Differential Drive Robots. **2020**, 53, 9664-9669
- 92 Control Lyapunov Function Based Finite-Horizon Optimal Control for Repointing of a Spacecraft. **2020**, 53, 2526-2531
- 91 Encyclopedia of Systems and Control. **2020**, 1-10
- 90 Homogeneous Stabilization. **2020**, 271-350
- 89 On Necessary Conditions of Tracking Control for Nonlinear Systems via Contraction Analysis. **2020**, 0

88	Hysteretic Control Lyapunov Functions with Application to Global Asymptotic Tracking for Underwater Vehicles. 2020,	1
87	Real-time Machine Learning-Based CLBF-MPC of Nonlinear Systems. 2020, 53, 11589-11594	1
86	Improved Event-Triggering Scheme for Uncertain Systems. 2020, 53, 4868-4874	
85	Task-Priority Control of Redundant Robotic Systems using Control Lyapunov and Control Barrier Function based Quadratic Programs. 2020, 53, 9037-9044	1
84	Economic MPC of Nonlinear Processes via Recurrent Neural Networks Using Structural Process Knowledge. 2020, 53, 11607-11613	
83	Robust Stabilization of Control Affine Systems with Homogeneous Functions. 2020, 53, 6311-6316	0
82	Contraction theory for nonlinear stability analysis and learning-based control: A tutorial overview. 2021,	4
81	Optimality-Oriented Stabilization for Recurrent Neural Networks. 93-115	
80	Design of Globally Robust Control for Biologically-Inspired Noisy Recurrent Neural Networks. 116-135	
79	CoSIR: Optimal control of SIR epidemic dynamics by mapping to Lotka-Volterra System.	
78	Suboptimal Repointing Maneuver of a staring-mode spacecraft with one DOF for final attitude. 2020, 175, 349-361	3
77	Lyapunov-based economic model predictive control for nonlinear descriptor systems. 2020, 163, 263-272	2
76	Asymptotic stabilization of nonlinear systems with convex-polytope input constraints by continuous input. 2021, 110032	1
75	Data-driven feedback stabilisation of nonlinear systems: Koopman-based model predictive control. 1-0	2
74	Design of Nonlinear Sectors with Comparison functions. 2021, 1-1	
73	Attitude Tracking Control with Constraints for Rigid Spacecraft Based on Control-Barrier Lyapunov Functions. 2021, 1-1	0
72	Adaptive Fuzzy Inverse Optimal Fixed-Time Control of Uncertain Nonlinear Systems. 2021, 1-1	0
71	On SampledData Leaderless Consensus Tracking of Nonlinear MultiAgent TimeDelay Systems. 2021, 54, 192-197	0

70	Universal Adaptive Control of Nonlinear Systems. 2022 , 6, 1826-1830		1
69	Design of Event-Triggered State-Constrained Stabilizing Controllers for Nonlinear Control Systems. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
68	Robust Optimal Control Framework for Nonlinear Differential Algebraic Equations.		1
67	Safe model-based reinforcement learning for nonlinear optimal control with state and input constraints. <i>AIChE Journal</i> ,	3.6	0
66	Finite-time stabilization of nonlinear polytopic systems: a control Lyapunov function approach. <i>IMA Journal of Mathematical Control and Information</i> ,	1.1	1
65	Control of grid side converters under constraints in unbalanced operating conditions. A Lyapunov framework. <i>IET Energy Systems Integration</i> ,	3.3	
64	Barrier-function-based distributed predictive control for operational safety of nonlinear processes. <i>Computers and Chemical Engineering</i> , 2022 , 159, 107690	4	
63	Strict smooth Lyapunov functions and vaccination control of SIR model certified by ISS. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	0
62	Finite-time attitude stabilization of rigid spacecrafts based on control Lyapunov functions. <i>IET Control Theory and Applications</i> , 2022 , 16, 663-673	2.5	0
61	Adaptive Lyapunov-based MPC With Constraint Updating For FCC Unit. 2021 ,		
60	Razumikhin-type Control Lyapunov and Barrier Functions for Time-Delay Systems. 2021 ,		0
59	Asymptotic stabilization with group-wise sparse input based on control Lyapunov function approach. <i>International Journal of Robust and Nonlinear Control</i> ,	3.6	0
58	A Lyapunov-Based Optimal Integral Finite-Time Tracking Control Approach for Asymmetric Nonholonomic Robotic Systems. <i>Symmetry</i> , 2021 , 13, 2367	2.7	1
57	Towards Robust Data-Driven Control Synthesis for Nonlinear Systems with Actuation Uncertainty. 2021 ,		4
56	On stochastic stabilization of sampled systems. 2021 ,		
55	Vaccination with Input-to-State Stability for SIR Model of Epidemics. 2021 ,		4
54	On the Stability of Nonlinear Receding Horizon Control: A Geometric Perspective. 2021 ,		0
53	Learning a Stability Filter for Uncertain Differentially Flat Systems using Gaussian Processes. 2021 ,		

52	On Compatibility and Region of Attraction for Safe, Stabilizing Control Laws. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	1
51	Global stabilization of a continuous tank reactor with Monod kinetics and amplitude-velocity bounded control. 2022 ,		
50	Statistical machine-learning-based predictive control using barrier functions for process operational safety. <i>Computers and Chemical Engineering</i> , 2022 , 163, 107860	4	0
49	On Robustification of Sampled Data Dynamic Output Feedback Stabilizers for Control of Affine Nonlinear Systems. 2022 , 1-1		
48	Necessary conditions for feedback stabilization and safety. <i>Journal of Geometric Mechanics</i> , 2022 ,	1.5	2
47	Safe Control Synthesis With Uncertain Dynamics and Constraints. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 7295-7302	4.2	
46	Energy Autonomy for Robot Systems With Constrained Resources. <i>IEEE Transactions on Robotics</i> , 2022 , 1-19	6.5	
45	Cooperative Path Following with Collision Avoidance Guarantees Using Control Lyapunov and Barrier Functions. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 181-193	0.2	
44	Multi-Robot Persistent Environmental Monitoring Based on Constraint-Driven Execution of Learned Robot Tasks. 2022 ,		0
43	Stabilization of State Constrained Delayed Systems Using Control-Lyapunov and Control-Barrier Functions. 2022 ,		
42	Attitude Stabilization of a Satellite Having Only Electromagnetic Actuation Using Oscillating Controls. 2022 , 9, 444		1
41	Q-Learning-based model predictive variable impedance control for physical human-robot collaboration. 2022 , 312, 103771		0
40	Razumikhin and Krasovskii approaches for safe stabilization. 2022 , 146, 110563		0
39	Continuous stabilization of composite stochastic systems. 2022 , 55, 713-716		0
38	Control multivaluado de sistemas hamiltonianos con puerto. 2022 , 19, 419-429		0
37	On the Feasibility and Continuity of Feedback Controllers Defined by Multiple Control Barrier Functions for Constrained Differential Inclusions. 2022 ,		1
36	RCP: A Temporal Clustering Algorithm for Real-time Controller Placement in Mobile SDN Systems. 2022 ,		0
35	A Control Barrier Function Perspective on Lyapunov-Based Economic Model Predictive Control. 2022 ,		0

- 34 High Order Robust Adaptive Control Barrier Functions and Exponentially Stabilizing Adaptive Control Lyapunov Functions. **2022**, ○
- 33 Model predictive control with input disturbance and guaranteed Lyapunov stability for controller approximation. **2022**, 65, 1
- 32 Trajectory Tracking Control of Two-wheeled Mobile Robot Using Control Lyapunov Function. **2022**, 58, 470-480 ○
- 31 A Unified Approach for Safety Critical Control Problem via Output Regulation Theory and Barrier Function. **2022**, ○
- 30 Decomposition-based Control for Switched Non-linear Systems with Vector L_2 -gain. **2022**, ○
- 29 Input-to-state stability and stabilization for switched nonlinear positive systems. **2023**, 47, 101298 ○
- 28 N-GKLS: An NMPC problem generator and a test platform for NMPC solvers. **2023**, 214, 119029 ○
- 27 On the Method of Penalty Functions for Control Systems with State Constraints under Integral Constraints on the Control. **2022**, 317, S98-S108 ○
- 26 Chaos synchronization in the presence of external disturbances with a novel layered control strategy. ○
- 25 Control Synthesis for Stability and Safety by Differential Complementarity Problem. **2023**, 7, 895-900 ○
- 24 Robust Linear PID Control of a Pressure Reducing Valve. **2023**, 149, ○
- 23 Adaptive Neural Inverse Optimal Tracking Control for Uncertain Nonlinear System With Actuator Faults. **2022**, 1-14 ○
- 22 Stabilization of Triangular Nonlinear Systems With Multiplicative Stochastic State Sensing Noise. **2022**, 1-8 ○
- 21 Constructing Control Lyapunov-Value Functions using Hamilton-Jacobi Reachability Analysis. **2022**, 1-1 ○
- 20 Neural Koopman Lyapunov Control. **2023**, 1
- 19 Pose Control With an Input-to-state Safe Control Barrier Function for Rigid Body Motion. **2023**, 143, 67-75 ○
- 18 Global Monotonic Radio-Frequency Impedance Matching Via Control Lyapunov Function Under Safety Constraints. **2022**, ○
- 17 Optimal Linear Multiple Estimation for Landmark-Based Planning via Control Synthesis. **2022**, ○

- 16 Safe Backstepping with Control Barrier Functions. **2022**, ○
- 15 Robust Control Barrier Functions for Nonlinear Control Systems with Uncertainty: A Duality-based Approach. **2022**, ○
- 14 A Global and Semi-Global Controller for SIQR Epidemic Model by A Control Lyapunov Function via Logarithmic Sum. **2022**, ○
- 13 Multi-Rate Planning and Control of Uncertain Nonlinear Systems: Model Predictive Control and Control Lyapunov Functions. **2022**, ○
- 12 Event-Triggered Optimal Safety Control for Nonlinear Safety-Critical Systems with Disturbance. **2022**, ○
- 11 Governor-parameterized barrier function for safe output tracking with locally sensed constraints. **2023**, 152, 110996 ○
- 10 Improving Drilling Efficiency and Safety Based on Hydraulic Mechanical Specific Energy in the Framework of Economic Model Predictive Control. **2023**, 1-17 ○
- 9 A Survey on the Control Lyapunov Function and Control Barrier Function for Nonlinear-Affine Control Systems. **2023**, 10, 584-602 ○
- 8 Modeling and predictive control of nonlinear processes using transfer learning method. ○
- 7 Design of Adaptive Cruise Control with Control Barrier Function and Model-Free Control. ○
- 6 Stabilization of fractional bilinear systems with multiple inputs. **2023**, 38, 78-88 ○
- 5 Simultaneous Collision Avoiding and Target Tracking for Unmanned Ground Vehicle with Velocity and Heading Rate Constraints. **2023**, 21, 1222-1232 ○
- 4 Robust Nonlinear Control and Observation. **2023**, 193-237 ○
- 3 Control Lyapunov function method for robust stabilization of multistable affine nonlinear systems. ○
- 2 On Sontag's formula for the sampled-data observer-based stabilization of nonlinear time-delay systems. **2023**, 153, 111052 ○
- 1 Observer-based robust optimal control for helicopter with uncertainties and disturbances. ○