

YangQuan Chen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5947575/yangquan-chen-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. 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.

867
papers

22,898
citations

69
h-index

132
g-index

1,057
ext. papers

28,712
ext. citations

3
avg, IF

7.61
L-index

#	Paper	IF	Citations
867	State-of-Charge Estimation of Lithium-Ion Batteries Based on Fractional-Order Square-Root Unscented Kalman Filter. <i>Fractal and Fractional</i> , 2022 , 6, 52	3	1
866	Estimation via Mobile Sensors for Semilinear Time-Fractional Diffusion Processes 2022 , 6, 2114-2119		
865	Mobile Actuator-Plus-Sensor Strategy for Event-Driven Observer-Based Control of Delayed Distributed Parameter Systems 2022 , 6, 2162-2167		
864	A Look-Up Table Based Fractional Order Composite Controller Synthesis Method for the PMSM Speed Servo System. <i>Fractal and Fractional</i> , 2022 , 6, 47	3	4
863	A LQy Distribution Based Searching Scheme for the Discrete Targets in Vast Region. <i>Symmetry</i> , 2022 , 14, 272	2.7	0
862	Multi-Robot Formation Control Based on CVT Algorithm and Health Optimization Management. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 755	2.6	
861	Hopf bifurcation in delayed nutrient-microorganism model with network structure.. <i>Journal of Biological Dynamics</i> , 2022 , 16, 1-13	2.4	1
860	Boundary stabilization and disturbance rejection for an unstable time fractional diffusion-wave equation. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2022 , 28, 7	1	
859	Fractional stochastic configuration networks-based nonstationary time series prediction and confidence interval estimation. <i>Expert Systems With Applications</i> , 2022 , 192, 116357	7.8	1
858	Identification and parameter sensitivity analyses of time-delay with single-fractional-pole systems under actuator rate limit effect. <i>Mechanical Systems and Signal Processing</i> , 2022 , 163, 108111	7.8	1
857	Periodic adaptive learning control of PMSM servo system with LuGre model-based friction compensation. <i>Mechanism and Machine Theory</i> , 2022 , 167, 104561	4	4
856	Mittag-Leffler Stability of Fractional-Order Nonlinear Differential Systems With State-Dependent Delays. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022 , 1-9	3.9	2
855	Estimating Evapotranspiration of Pomegranate Trees Using Stochastic Configuration Networks (SCN) and UAV Multispectral Imagery. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2022 , 104, 1	2.9	1
854	Smart three-dimensional processing of unconstrained cave scans using small unmanned aerial systems and red, green, and blue-depth cameras. <i>International Journal of Advanced Robotic Systems</i> , 2022 , 19, 172988142110177	1.4	
853	Explainable artificial intelligence for building energy performance certificate labelling classification. <i>Journal of Cleaner Production</i> , 2022 , 131626	10.3	1
852	Load frequency regulation for multi-area power systems with renewable sources via active disturbance rejection control. <i>Energy Reports</i> , 2022 , 8, 401-409	4.6	1
851	A Fractional-Order Age-Structured Generalized SEIR Model: The Role of COVID-19 Symptom Data Challenge Dataset 2022 , 13-24		

850	Prediction and Control of the Impact of the Onset Influenza Season on the Spread of COVID-19 2022 , 3-12		
849	A controller design method for high-order unstable linear time-invariant systems.. <i>ISA Transactions</i> , 2022 ,	5.5	1
848	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2113561119	11.5	13
847	Synchronization of Incommensurate Fractional-Order Chaotic Systems Based on Linear Feedback Control. <i>Fractal and Fractional</i> , 2022 , 6, 221	3	2
846	A Digital Twin Framework for Environmental Sensing with sUAS. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2022 , 105, 1	2.9	0
845	Stability Analysis of the Nabla Distributed-Order Nonlinear Systems. <i>Fractal and Fractional</i> , 2022 , 6, 228	3	0
844	A Controller Synthesis Method to Achieve Independent Reference Tracking Performance and Disturbance Rejection Performance.. <i>ACS Omega</i> , 2022 , 7, 16164-16186	3.9	1
843	Offline Sifting and Majorization of Loop Detections. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2022 , 67-79	0.4	
842	Fractional Order Random Sample Consensus. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2022 , 21-35	0.4	
841	Online Sifting of Loop Detections for 3D Reconstruction of Caves. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2022 , 37-56	0.4	
840	Dense Map Posterior: A Novel Quality Metric for 3D Reconstruction. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2022 , 57-65	0.4	
839	Multi-UAVs collaborative tracking of moving target with maximized visibility in Urban Environment. <i>Journal of the Franklin Institute</i> , 2022 , 359, 5512-5512	4	0
838	Fault Cause Assignment with Physics Informed Transfer Learning. <i>IFAC-PapersOnLine</i> , 2021 , 54, 53-58	0.7	0
837	Data-Driven Modelling for a High Order Multivariable Thermal System and Control. <i>IFAC-PapersOnLine</i> , 2021 , 54, 753-758	0.7	0
836	Preview Control Based on RIOTS MPC and H _∞ for A Thermal Hardware in the Loop System. <i>IFAC-PapersOnLine</i> , 2021 , 54, 729-734	0.7	
835	3D Semantic Mapping: a Benchmark and Baseline Method. <i>IFAC-PapersOnLine</i> , 2021 , 54, 820-825	0.7	
834	Delay-Dependent and Order-Dependent Guaranteed Cost Control for Uncertain Fractional-Order Delayed Linear Systems. <i>Mathematics</i> , 2021 , 9, 41	2.3	4
833	Solution Analysis and Novel Admissibility Conditions of SFOSs: The 1. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-12	7.3	

832	Advanced Leak Detection and Quantification of Methane Emissions Using sUAS. <i>Drones</i> , 2021 , 5, 117	5.4	2
831	Spatiotemporal patterns in a general networked activator-substrate model. <i>Nonlinear Dynamics</i> , 2021 , 106, 3521	5	0
830	Boundary Mittag-Leffler stabilization of coupled time fractional order reaction-advection-diffusion systems with non-constant coefficients. <i>Systems and Control Letters</i> , 2021 , 149, 104875	2.4	7
829	Reliable Tree-level Evapotranspiration Estimation of Pomegranate Trees Using Lysimeter and UAV Multispectral Imagery 2021 ,		3
828	Simultaneous Characterization of Relaxation, Creep, Dissipation, and Hysteresis by Fractional-Order Constitutive Models. <i>Fractal and Fractional</i> , 2021 , 5, 36	3	4
827	Networked control for linear systems with forward and backward channels in presence of data transmission delays, consecutive packet dropouts and disordering. <i>Journal of the Franklin Institute</i> , 2021 , 358, 4121-4140	4	0
826	RLIM: a recursive and latent infection model for the prediction of US COVID-19 infections and turning points. <i>Nonlinear Dynamics</i> , 2021 , 106, 1-14	5	1
825	The proportional-integral controller design based on a Smith-like predictor for a class of high order systems. <i>Transactions of the Institute of Measurement and Control</i> , 2021 , 43, 875-890	1.8	4
824	FaultFace: Deep Convolutional Generative Adversarial Network (DCGAN) based Ball-Bearing failure detection method. <i>Information Sciences</i> , 2021 , 542, 195-211	7.7	27
823	Exact bounds for robust stability of output feedback controlled fractional-order systems with single parameter perturbations. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 207-224	3.6	4
822	An adaptive PID-type sliding mode learning compensation of torque ripple in PMSM position servo systems towards energy efficiency. <i>ISA Transactions</i> , 2021 , 110, 258-270	5.5	7
821	Investigation of Zn- and Pb-rich deposits on water-wall tubes in three coal-fired boilers. <i>Fuel Processing Technology</i> , 2021 , 211, 106607	7.2	2
820	Synthesis of fractional order robust controller based on Bode's ideas. <i>ISA Transactions</i> , 2021 , 111, 290-301	3.5	7
819	Learnability of Linear Fractional-Order ILC Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 963-967	3.5	2
818	Fractional-order DOB-sliding mode control for a class of noncommensurate fractional-order systems with mismatched disturbances. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 8228-8242	2.3	3
817	Stabilization of uncertain fractional order system with time-varying delay using BMI approach. <i>Asian Journal of Control</i> , 2021 , 23, 582-590	1.7	2
816	Design of a class of fractional-order hyperchaotic multidirectional multi-scroll attractors. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 2416-2430	2.3	
815	Uniform Stability of Complex-Valued Neural Networks of Fractional Order With Linear Impulses and Fixed Time Delays. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	7

814	A Simplified Fractional Order PID Controller's Optimal Tuning: A Case Study on a PMSM Speed Servo. <i>Entropy</i> , 2021 , 23,	2.8	8
813	Renormalization group and fractional calculus methods in a complex world: A review. <i>Fractional Calculus and Applied Analysis</i> , 2021 , 24, 5-53	2.7	2
812	Converse Lyapunov Theorem for Nabla Asymptotic Stability Without Conservativeness. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-12	7.3	5
811	Optimal Fractional-Order Active Disturbance Rejection Controller Design for PMSM Speed Servo System. <i>Entropy</i> , 2021 , 23,	2.8	1
810	On transitioning from PID to ADRC in thermal power plants. <i>Control Theory and Technology</i> , 2021 , 19, 3-18	1	13
809	Why Do Big Data and Machine Learning Entail the Fractional Dynamics?. <i>Entropy</i> , 2021 , 23,	2.8	6
808	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 842-855	3.9	4
807	Spatial Path Tracking Controllers for Autonomous Ground Vehicles: Conventional and Nonconventional Schemes. <i>Research on World Agricultural Economy</i> , 2021 , 01, 2150003		
806	Input-output Finite-time Stability of Switched Singular Continuous-time Systems. <i>International Journal of Control, Automation and Systems</i> , 2021 , 19, 1828-1835	2.9	4
805	Guaranteed cost control of fractional-order linear uncertain systems with time-varying delay. <i>Optimal Control Applications and Methods</i> , 2021 , 42, 1102-1118	1.7	4
804	Active disturbance rejection control design for high-order integral systems. <i>ISA Transactions</i> , 2021 ,	5.5	5
803	An active disturbance rejection control design with actuator rate limit compensation for the ALSTOM gasifier benchmark problem. <i>Energy</i> , 2021 , 227, 120447	7.9	7
802	Parallel Self Optimizing Control Framework for Digital Twin Enabled Smart Control Engineering 2021 ,		4
801	Fractional order active disturbance rejection control with the idea of cascaded fractional order integrator equivalence. <i>ISA Transactions</i> , 2021 , 114, 359-369	5.5	8
800	State of Charge Estimation of Lithium-Ion Batteries Based on Fuzzy Fractional-Order Unscented Kalman Filter. <i>Fractal and Fractional</i> , 2021 , 5, 91	3	4
799	Optimal robust fractional order PID controller synthesis for first order plus time delay systems. <i>ISA Transactions</i> , 2021 , 114, 136-149	5.5	9
798	Guaranteed Cost Leaderless Consensus Protocol Design for Fractional-Order Uncertain Multi-Agent Systems with State and Input Delays. <i>Fractal and Fractional</i> , 2021 , 5, 141	3	3
797	Optimal vaccination and treatment policies for regional approximate controllability of the time-fractional reaction-diffusion SIR epidemic systems. <i>ISA Transactions</i> , 2021 , 115, 143-152	5.5	6

796	Passivity-based non-fragile control of a class of uncertain fractional-order nonlinear systems. <i>The Integration VLSI Journal</i> , 2021 , 81, 25-33	1.4	2
795	Physics-informed energy-balanced modeling and active disturbance rejection control for circulating fluidized bed units. <i>Control Engineering Practice</i> , 2021 , 116, 104934	3.9	2
794	Technical note: On the actuator rate limit effect in reaction curves. <i>ISA Transactions</i> , 2021 , 117, 303-308	5.5	1
793	Death mechanism-based mothflame optimization with improved flame generation mechanism for global optimization tasks. <i>Expert Systems With Applications</i> , 2021 , 183, 115436	7.8	6
792	On a Method of Solution of Systems of Fractional Pseudo-Differential Equations. <i>Fractional Calculus and Applied Analysis</i> , 2021 , 24, 254-277	2.7	2
791	A variable-order fractional proportional-integral controller and its application to a permanent magnet synchronous motor. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 3247-3254	6.1	5
790	The influence of rate limit on proportional-integral controller for first-order plus time-delay systems. <i>ISA Transactions</i> , 2020 , 105, 157-173	5.5	7
789	Framework of Specific Description Generation for Aluminum Alloy Metallographic Image Based on Visual and Language Information Fusion. <i>Symmetry</i> , 2020 , 12, 771	2.7	1
788	Regional output feedback stabilization of semilinear time-fractional diffusion systems in a parallelepipedon with control constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 3639-3652	3.6	9
787	A Unified Framework of Stability Theorems for LTI Fractional Order Systems With 0 IEEE Transactions on Circuits and Systems II: Express Briefs, 2020 , 67, 3237-3241	3.5	12
786	Fuzzy neural network-based chaos synchronization for a class of fractional-order chaotic systems: an adaptive sliding mode control approach. <i>Nonlinear Dynamics</i> , 2020 , 100, 1275-1287	5	25
785	Iterative learning-based formation control for multiple quadrotor unmanned aerial vehicles. <i>International Journal of Advanced Robotic Systems</i> , 2020 , 17, 172988142091152	1.4	6
784	Stability and resonance analysis of a general non-commensurate elementary fractional-order system. <i>Fractional Calculus and Applied Analysis</i> , 2020 , 23, 183-210	2.7	11
783	Investigating public biodiversity conservation awareness based on the propagation of wildlife-related incidents on the Sina Weibo social media platform. <i>Environmental Research Letters</i> , 2020 , 15, 094082	6.2	2
782	Analysis and implementation of fractional-order chaotic system with standard components. <i>Journal of Advanced Research</i> , 2020 , 25, 97-109	13	8
781	Remaining Useful Life Prediction and State of Health Diagnosis of Lithium-Ion Battery Based on Second-Order Central Difference Particle Filter. <i>IEEE Access</i> , 2020 , 8, 37305-37313	3.5	22
780	Compensation strategies based on Bode step concept for actuator rate limit effect on first-order plus time-delay systems. <i>Nonlinear Dynamics</i> , 2020 , 99, 2851-2866	5	2
779	Chaos in fractional-order discrete neural networks with application to image encryption. <i>Neural Networks</i> , 2020 , 125, 174-184	9.1	82

778	Digital Twin Enabled Smart Control Engineering as an Industrial AI: A New Framework and Case Study 2020 ,			3
777	More Informed Random Sample Consensus 2020 ,			1
776	Integrated Intelligence of Fractional Neural Networks and Sequential Quadratic Programming for Bagley-Torvik Systems Arising in Fluid Mechanics. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020 , 15,	1.4		24
775	Estimating actual crop evapotranspiration using deep stochastic configuration networks model and UAV-based crop coefficients in a pomegranate orchard 2020 ,			8
774	The green function for a class of Caputo fractional differential equations with a convection term. <i>Fractional Calculus and Applied Analysis</i> , 2020 , 23, 787-798	2.7		5
773	Fractional order [Proportional Integral Derivative] Controller Design with Specification Constraints: More Flat Phase Idea. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3650-3656	0.7		0
772	A Low-cost Soil Moisture Monitoring Method by Using Walabot and Machine Learning Algorithms. <i>IFAC-PapersOnLine</i> , 2020 , 53, 15784-15789	0.7		1
771	Distributed Event-Triggered Output Feedback Control for Semilinear Time Fractional Diffusion Systems 2020 , 245-253			
770	Control of the Fluidized Bed Combustor based on Active Disturbance Rejection Control and Bode Ideal Cut-off. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12517-12522	0.7		1
769	Evacuation Control of Crowds of Pedestrians: Distributed or Decentralized?. <i>IFAC-PapersOnLine</i> , 2020 , 53, 318-323	0.7		
768	PHELP: Pixel Heating Experiment Learning Platform for Education and Research on IAI-based Smart Control Engineering 2020 ,			1
767	Optimal Randomness for Stochastic Configuration Network (SCN) with Heavy-Tailed Distributions. <i>Entropy</i> , 2020 , 23,	2.8		7
766	A More Optimal Stochastic Extremum Seeking Control Using Fractional Dithering For A Class of Smooth Convex Functions. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3737-3742	0.7		0
765	A Fractional Order Controller Design Based on Bode's Ideal Transfer Function and Bode's Ideal Cut-Off Ideas. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3663-3668	0.7		1
764	Fractional Order BPNN for Estimating State of Charge of Lithium-ion Battery under Temperature Influence. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3707-3712	0.7		2
763	Bilateral Output Feedback Control of Fractional PDEs with Space-Dependent Coefficients. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3743-3748	0.7		
762	Compensation Strategies for Actuator Rate Limit Effect on First-Order Plus Time-Delay Systems 2020 , 275-282			0
761	A low-cost proximate sensing method for early detection of nematodes in walnut using Walabot and scikit-learn classification algorithms 2020 ,			3

760	A Velocity-Combined Local Best Particle Swarm Optimization Algorithm for Nonlinear Equations. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-9	1.1	
759	Synthesised fractional-order PD controller design for fractional-order time-delay systems based on improved robust stability surface analysis. <i>IET Control Theory and Applications</i> , 2020 , 14, 3723-3730	2.5	1
758	Observation and stabilisation of coupled time-fractional reaction–advection–diffusion systems with spatially-varying coefficients. <i>IET Control Theory and Applications</i> , 2020 , 14, 3128-3138	2.5	3
757	Control Performance Assessment of the Disturbance with Fractional Order Dynamics 2020 , 255-264		1
756	A Study of the Influence of Stochastic Fractional-Order Delay Dynamics in a Networked Control System. <i>IFAC-PapersOnLine</i> , 2020 , 53, 5789-5794	0.7	
755	Boundary stabilization and disturbance rejection for a time fractional order diffusion-wave equation. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3695-3700	0.7	0
754	External boundary regional controllability for nonlocal diffusion systems involving the fractional Laplacian. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7659-7664	0.7	
753	NILT and Prony technique for new definitions of fractional calculus for modeling very slow decay phenomena. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3689-3694	0.7	
752	A Portable and Affordable Networked Temperature Distribution Control Platform for Education and Research. <i>IFAC-PapersOnLine</i> , 2020 , 53, 17530-17535	0.7	
751	State and output feedback boundary control of time fractional PDE–fractional ODE cascades with space-dependent diffusivity. <i>IET Control Theory and Applications</i> , 2020 , 14, 3589-3600	2.5	0
750	First-order plus time-delay systems under the effects of actuator rate limit. <i>IET Control Theory and Applications</i> , 2020 , 14, 2481-2490	2.5	1
749	Non-fragile control for a class of fractional-order uncertain linear systems with time-delay. <i>IET Control Theory and Applications</i> , 2020 , 14, 1575-1589	2.5	3
748	COVID-19 reopening strategies at the county level in the face of uncertainty: Multiple Models for Outbreak Decision Support 2020 ,		16
747	Bounded consensus for multiagent systems by event-triggered data transmission, time delay, and predictor-based control. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 804-823	3.6	4
746	Observer-based event-triggered control for semilinear time-fractional diffusion systems with distributed feedback. <i>Nonlinear Dynamics</i> , 2020 , 99, 1089-1101	5	11
745	Estimating Crop Coefficients Using Linear and Deep Stochastic Configuration Networks Models and UAV-Based Normalized Difference Vegetation Index (NDVI) 2020 ,		2
744	Characterization of ground-to-air emissions with sUAS using a digital twin framework 2020 ,		2
743	A Neural Network based Frequency-domain Design Method for the Optimal Fractional Order PI D Controller. <i>Journal of Physics: Conference Series</i> , 2020 , 1576, 012038	0.3	

742	Improved Decentralized Fractional PD Control of Structure Vibrations. <i>Mathematics</i> , 2020 , 8, 326	2.3	16
741	Output-feedback-guaranteed cost control of fractional-order uncertain linear delayed systems. <i>Computational and Applied Mathematics</i> , 2020 , 39, 1	2.4	7
740	Stability analysis of switched fractional-order continuous-time systems. <i>Nonlinear Dynamics</i> , 2020 , 102, 2467-2478	5	6
739	Evapotranspiration Estimation with Small UAVs in Precision Agriculture. <i>Sensors</i> , 2020 , 20,	3.8	14
738	A fractional-order SEIHDR model for COVID-19 with inter-city networked coupling effects. <i>Nonlinear Dynamics</i> , 2020 , 101, 1-14	5	26
737	Boundary state and output feedbacks for underactuated systems of coupled time-fractional PDEs with different space-dependent diffusivity. <i>International Journal of Systems Science</i> , 2020 , 51, 2922-2942 ²⁻³		4
736	Distribution consensus of nonlinear stochastic multi-agent systems based on sliding-mode control with probability density function compensation. <i>Journal of the Franklin Institute</i> , 2020 , 357, 9308-9329	4	4
735	Adaptive Control of a Piezo-Positioning Mechanism With Hysteresis and Input Saturation Using Time Delay Estimation. <i>IEEE Access</i> , 2020 , 8, 176062-176072	3.5	1
734	Analytical calculation of the inverse nabla Laplace transform 2020 ,		1
733	Forecast analysis of the epidemics trend of COVID-19 in the USA by a generalized fractional-order SEIR model. <i>Nonlinear Dynamics</i> , 2020 , 101, 1-14	5	29
732	Variable coefficient fractional-order PID controller and its application to a SEPIC device. <i>IET Control Theory and Applications</i> , 2020 , 14, 900-908	2.5	8
731	Active Disturbance Rejection Control Design Based on Probabilistic Robustness for Uncertain Systems. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 18070-18087	3.9	9
730	Principle of Self-Support (PSS) and Its Extensions With Fractional Calculus and Event-Triggered Scheme. <i>IEEE Open Journal of Circuits and Systems</i> , 2020 , 1, 270-279	1.7	
729	An improved cooperative team spraying control of a diffusion process with a moving or static pollution source. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2020 , 7, 494-504	7	1
728	Delay-Dependent and Order-Dependent Stability and Stabilization of Fractional-Order Linear Systems With Time-Varying Delay. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020 , 67, 1064-1068	3.5	18
727	Robust dissipativity and dissipation of a class of fractional-order uncertain linear systems. <i>IET Control Theory and Applications</i> , 2019 , 13, 1454-1465	2.5	17
726	Data Quality Aware Flight Mission Design for Fugitive Methane Sniffing using Fixed Wing sUAS 2019 ,		2
725	A UAV Resolution and Waveband Aware Path Planning for Onion Irrigation Treatments Inference 2019 ,		10

724	Lithium-ion Battery Face Imaging with Contactless Walabot and Machine Learning 2019 ,		2
723	Iterative Learning Control Based on Nesterov Accelerated Gradient Method. <i>IEEE Access</i> , 2019 , 7, 115836-115842		3
722	Hybrid Model-Based Feedforward and Fractional-Order Feedback Control Design for the Benchmark Refrigeration System. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 17885-17897	3.9	6
721	Intelligent Bugs Mapping and Wiping (iBMW): An Affordable Robot-Driven Robot for Farmers 2019 ,		7
720	A Laboratory Setup for an Introduction to Fractional Order Systems. <i>IFAC-PapersOnLine</i> , 2019 , 52, 62-67	0.7	
719	Improved PRM for Path Planning in Narrow Passages 2019 ,		3
718	Mittag-Leffler stabilization for an unstable time-fractional anomalous diffusion equation with boundary control matched disturbance. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 4384-4401	3.6	19
717	Event-triggered uniform ultimate bound control for linear systems with time-varying delay. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 4263-4273	1.8	3
716	Finite energy Lyapunov function candidate for fractional order general nonlinear systems. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 78, 104886	3.7	15
715	Regional observability for Hadamard-Caputo time fractional distributed parameter systems. <i>Applied Mathematics and Computation</i> , 2019 , 360, 190-202	2.7	2
714	Animal based diets and environment: Perspective from phosphorus flow quantifications of livestock and poultry raising in China. <i>Journal of Environmental Management</i> , 2019 , 244, 199-207	7.9	9
713	Stability analysis of nonlinear Hadamard fractional differential system. <i>Journal of the Franklin Institute</i> , 2019 , 356, 6538-6546	4	30
712	The controllability, observability, and stability analysis of a class of composite systems with fractional degree generalized frequency variables. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2019 , 6, 859-864	7.4	3
711	Learning Feedforward Control of a One-Stage Refrigeration System. <i>IEEE Access</i> , 2019 , 7, 64120-64126	3.5	1
710	Force ripple compensation in a PMLSM position servo system using periodic adaptive learning control. <i>ISA Transactions</i> , 2019 , 95, 266-277	5.5	9
709	Optimizing Energy Consumption for Lighting Control System via Multivariate Extremum Seeking Control With Diminishing Dither Signal. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 1848-1859	4.9	14
708	A Review of Industrial MIMO Decoupling Control. <i>International Journal of Control, Automation and Systems</i> , 2019 , 17, 1246-1254	2.9	19
707	Robust passivity and feedback passification of a class of uncertain fractional-order linear systems. <i>International Journal of Systems Science</i> , 2019 , 1-14	2.3	10

706	Linear fractional order controllers; A survey in the frequency domain. <i>Annual Reviews in Control</i> , 2019 , 47, 51-70	10.3	53
705	Robust stability analysis for fractional-order systems with time delay based on finite spectrum assignment. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 2283-2295	3.6	19
704	Fractional derivative modeling for suspended sediment in unsteady flows. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019 , 79, 104971	3.7	2
703	Delay-dependent criterion for asymptotic stability of a class of fractional-order memristive neural networks with time-varying delays. <i>Neural Networks</i> , 2019 , 118, 289-299	9.1	37
702	Fractional-order model and experimental verification for broadband hysteresis in piezoelectric actuators. <i>Nonlinear Dynamics</i> , 2019 , 98, 3143-3153	5	12
701	Fractional-order flight control of quadrotor UAS on vision-based precision hovering with larger sampling period. <i>Nonlinear Dynamics</i> , 2019 , 97, 1735-1746	5	2
700	Gain scheduling design based on active disturbance rejection control for thermal power plant under full operating conditions. <i>Energy</i> , 2019 , 185, 744-762	7.9	25
699	Variable Gain Feedback PD^{α} -Type Iterative Learning Control for Fractional Nonlinear Systems With Time-Delay. <i>IEEE Access</i> , 2019 , 7, 90106-90114	3.5	2
698	A PD-Type Iterative Learning Algorithm for Semi-Linear Distributed Parameter Systems With Sensors/Actuators. <i>IEEE Access</i> , 2019 , 7, 159037-159047	3.5	1
697	Bounded average consensus for multi-agent systems with switching topologies by event-triggered persistent dwell time control. <i>Journal of the Franklin Institute</i> , 2019 , 356, 9095-9121	4	12
696	Aluminum alloy microstructural segmentation in micrograph with hierarchical parameter transfer learning method. <i>Journal of Electronic Imaging</i> , 2019 , 28, 1	0.7	1
695	The Southeasterly Gale in Tianshan Grand Canyon in Xinjiang, China: A Case Study. <i>Journal of the Meteorological Society of Japan</i> , 2019 , 97, 55-67	2.8	2
694	Unmanned Aerial Systems for Low-Altitude Remote Sensing 2019 , 231-296		
693	Low-Cost Real-Time Vision Platform for Spatial Temperature Control Research Education Developments 2019 ,		2
692	Some Fundamental Properties on the Sampling Free Nabla Laplace Transform 2019 ,		3
691	BLUE filter with fused range estimation. <i>Journal of Engineering</i> , 2019 , 2019, 8071-8075	0.7	
690	Optimal actuation for regional approximate controllability of parabolic systems with the fractional Laplacian 2019 ,		1
689	State-of-art survey of fractional order modeling and estimation methods for lithium-ion batteries. <i>Fractional Calculus and Applied Analysis</i> , 2019 , 22, 1449-1479	2.7	11

688	Robust stability analysis of LTI systems with fractional degree generalized frequency variables. <i>Fractional Calculus and Applied Analysis</i> , 2019 , 22, 1655-1674	2.7	1
687	FCAA special issue "In memory of late professor Wen Chen (FCAA volume 22(2)2019). <i>Fractional Calculus and Applied Analysis</i> , 2019 , 22, 1437-1448	2.7	1
686	An Experimental Networked Control System with Fractional Order Delay Dynamics 2019 ,		2
685	Frequency-domain Analysis of A Modified Active Disturbance Rejection Control With Application to Superheated Steam Temperature Control 2019 ,		1
684	A Combined Multiple Factor Degradation Model and Online Verification for Electric Vehicle Batteries. <i>Energies</i> , 2019 , 12, 4376	3.1	2
683	Stabilization and Stability Robustness of Coupled Non-Constant Parameter Time Fractional PDEs. <i>IEEE Access</i> , 2019 , 7, 163969-163980	3.5	4
682	Complex Dynamical Behaviors of a Fractional-Order System Based on a Locally Active Memristor. <i>Complexity</i> , 2019 , 2019, 1-13	1.6	7
681	Fractional techniques to characterize non-solid aluminum electrolytic capacitors for power electronic applications. <i>Nonlinear Dynamics</i> , 2019 , 98, 3125-3141	5	5
680	Optimal Randomness in Swarm-Based Search. <i>Mathematics</i> , 2019 , 7, 828	2.3	15
679	Event-triggered boundary feedback control for networked reaction-subdiffusion processes with input uncertainties. <i>Information Sciences</i> , 2019 , 476, 239-255	7.7	13
678	Crowds involving individuals with disabilities: Modeling heterogeneity using Fractional Order Potential Fields and the Social Force Model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 514, 244-258	3.3	12
677	Industrial feedforward control technology: a review. <i>Journal of Intelligent Manufacturing</i> , 2019 , 30, 2819-2833	2.33	15
676	Patterns induced by super cross-diffusion in a predator-prey system with Michaelis-Menten type harvesting. <i>Mathematical Biosciences</i> , 2018 , 298, 71-79	3.9	19
675	Continuous fractional-order Zero Phase Error Tracking Control. <i>ISA Transactions</i> , 2018 , 75, 226-235	5.5	19
674	Hopf bifurcation and Turing instability in a predator-prey model with Michaelis-Menten functional response. <i>Nonlinear Dynamics</i> , 2018 , 91, 2033-2047	5	10
673	Regional Analysis of Time-Fractional Diffusion Processes 2018 ,		15
672	Regional Stability and Regional Stabilizability 2018 , 215-232		
671	Regional Observability 2018 , 121-180		

670 Regional Controllability **2018**, 45-120

669 A new collection of real world applications of fractional calculus in science and engineering. *Communications in Nonlinear Science and Numerical Simulation*, **2018**, 64, 213-231 3.7 596

668 Fixed-Wing MAV Adaptive PD Control Based on a Modified MIT Rule with Sliding-Mode Control. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2018**, 91, 101-114 2.9 5

667 Single image super-resolution using self-optimizing mask via fractional-order gradient interpolation and reconstruction. *ISA Transactions*, **2018**, 82, 163-171 5.5 8

666 Diffusion control for a tempered anomalous diffusion system using fractional-order PI controllers. *ISA Transactions*, **2018**, 82, 94-106 5.5 11

665 Admissibility and robust stabilization of continuous linear singular fractional order systems with the fractional order $\neq 0$. *ISA Transactions*, **2018**, 82, 42-50 5.5 93

664 Global Practical Mittag Leffler Stabilization by Output Feedback for a Class Of Nonlinear Fractional-Order Systems. *Asian Journal of Control*, **2018**, 20, 599-607 1.7 23

663 Stabilization of Uncertain Multi-Order Fractional Systems Based on the Extended State Observer. *Asian Journal of Control*, **2018**, 20, 1263-1273 1.7 17

662 New integral inequalities and asymptotic stability of fractional-order systems with unbounded time delay. *Nonlinear Dynamics*, **2018**, 94, 1523-1534 5 20

661 General robustness analysis and robust fractional-order PD controller design for fractional-order plants. *IET Control Theory and Applications*, **2018**, 12, 1730-1736 2.5 28

660 Asymptotical stability of fractional order systems with time delay via an integral inequality. *IET Control Theory and Applications*, **2018**, 12, 1748-1754 2.5 37

659 Observer-based output feedback control for a boundary controlled fractional reaction diffusion system with spatially-varying diffusivity. *IET Control Theory and Applications*, **2018**, 12, 1561-1572 2.5 24

658 A Novel Method for Control Performance Assessment with Fractional Order Signal Processing and Its Application to Semiconductor Manufacturing. *Algorithms*, **2018**, 11, 90 1.8 9

657 Extraction of Coal and Gangue Geometric Features with Multifractal Detrending Fluctuation Analysis. *Applied Sciences (Switzerland)*, **2018**, 8, 463 2.6 15

656 Event-driven boundary control for time fractional diffusion systems under time-varying input disturbance **2018**, 1

655 Robust asymptotic stability of interval fractional-order nonlinear systems with time-delay. *Journal of the Franklin Institute*, **2018**, 355, 7749-7763 4 19

654 Fractional order gradient methods for a general class of convex functions **2018**, 1

653 Fractional Order Proportional-Resonant Controller **2018**, 2

652	Backstepping-based boundary control design for a fractional reaction diffusion system with a space-dependent diffusion coefficient. <i>ISA Transactions</i> , 2018 , 80, 203-211	5.5	17
651	Onion irrigation treatment inference using a low-cost hyperspectral scanner 2018 ,		8
650	Comparing U-Net convolutional networks with fully convolutional networks in the performances of pomegranate tree canopy segmentation 2018 ,		25
649	Fractional Order Crowd Dynamics 2018 ,		2
648	Spreadability 2018 , 199-213		
647	Preliminary Results 2018 , 17-44		
646	Regional Detection of Unknown Sources 2018 , 181-197		
645	Optimization of the FO[PI] Controller for MTDS Using MAPO with Multi Objective Function. <i>SSRN Electronic Journal</i> , 2018 ,	1	2
644	Fractional Order Sliding Mode Control via Disturbance Observer for a Class of Fractional Order Systems With Mismatched Disturbance. <i>SSRN Electronic Journal</i> , 2018 ,	1	1
643	The asymptotic normality of internal estimator for nonparametric regression. <i>Journal of Inequalities and Applications</i> , 2018 , 2018, 231	2.1	
642	Analysis of Actuator Rate Limit Effects on First-Order Plus Time-Delay Systems under Fractional-Order Proportional-Integral Control. <i>IFAC-PapersOnLine</i> , 2018 , 51, 37-42	0.7	8
641	PID2018 Benchmark Challenge: Multi-Objective Stochastic Optimization Algorithm. <i>IFAC-PapersOnLine</i> , 2018 , 51, 877-881	0.7	1
640	New Repetitive Current Controller for PWM Rectifier. <i>IFAC-PapersOnLine</i> , 2018 , 51, 154-159	0.7	2
639	Fractional - order modelling and control for two parallel PWM rectifiers. <i>IFAC-PapersOnLine</i> , 2018 , 51, 54-59	0.7	3
638	PID2018 Benchmark Challenge: Model Predictive Control With Conditional Integral Control Using A General Purpose Optimal Control Problem Solver [RIOTS.. <i>IFAC-PapersOnLine</i> , 2018 , 51, 882-887	0.7	1
637	PID2018 Benchmark Challenge: learning feedforward control. <i>IFAC-PapersOnLine</i> , 2018 , 51, 663-668	0.7	
636	An Improved Frequency-domain Method for the Fractional Order PI \mathcal{D}^{μ} Controller Optimal Design. <i>IFAC-PapersOnLine</i> , 2018 , 51, 681-686	0.7	1
635	PID2018 Benchmark Challenge: Model-based Feedforward Compensator with A Conditional Integrator ? ?This work was supported by China Scholarship Council (CSC) under Grant(201606090086).. <i>IFAC-PapersOnLine</i> , 2018 , 51, 888-893	0.7	2

634	7. Intelligent evacuation systems for crowds of pedestrians 2018 , 103-122		
633	2. Microscopic model of fractional order for evacuation of crowds 2018 , 9-26		
632	Mittag-Leffler convergent backstepping observers for coupled semilinear subdiffusion systems with spatially varying parameters. <i>Systems and Control Letters</i> , 2018 , 122, 86-92	2.4	17
631	Bifurcation Analysis of a Vibro-Impact Viscoelastic Oscillator with Fractional Derivative Element. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018 , 28, 1850170	2	4
630	Observer Design for Semilinear Time Fractional Diffusion Systems with Spatially Varying Parameters. <i>SSRN Electronic Journal</i> , 2018 ,	1	1
629	Modeling and Control of a Portable Two-Stroke Free-Piston Engine Generator 2018 ,		1
628	Turing-Hopf bifurcation analysis in a superdiffusive predator-prey model. <i>Chaos</i> , 2018 , 28, 113118	3.3	11
627	Improved frequency-domain design method for the fractional order proportionalIntegralDerivative controller optimal design: a case study of permanent magnet synchronous motor speed control. <i>IET Control Theory and Applications</i> , 2018 , 12, 2478-2487	2.5	15
626	On Optimal Tempered Lévy Flight Foraging. <i>Frontiers in Physics</i> , 2018 , 6,	3.9	1
625	A survey of run-to-run control for batch processes. <i>ISA Transactions</i> , 2018 , 83, 107-125	5.5	14
624	Event-triggered sliding mode control for uncertain linear systems with time-varying delay and stochastic disturbance. <i>International Journal of Systems Science</i> , 2018 , 49, 2861-2871	2.3	10
623	Application of fractional-order active disturbance rejection controller on linear motion system. <i>Control Engineering Practice</i> , 2018 , 81, 207-214	3.9	21
622	Optimal 3D Reconstruction of Caves Using Small Unmanned Aerial Systems and RGB-D Cameras 2018 ,		3
621	Low Cost Autonomous Battery Replacement System for Quadrotor Small Unmanned Aerial Systems (sUAS) using 3D Printing Components 2018 ,		1
620	Wind Measurement and Estimation with Small Unmanned Aerial Systems (sUAS) Using On-Board Mini Ultrasonic Anemometers 2018 ,		6
619	Event-triggered average dwell time control for switched uncertain linear systems with actuator saturation. <i>International Journal of Systems Science</i> , 2018 , 49, 1715-1724	2.3	10
618	Fractional order sliding mode control via disturbance observer for a class of fractional order systems with mismatched disturbance,. <i>Mechatronics</i> , 2018 , 53, 8-19	3	62
617	Actuator characterisations to achieve approximate controllability for a class of fractional sub-diffusion equations. <i>International Journal of Control</i> , 2017 , 90, 1212-1220	1.5	13

616	A review and evaluation of numerical tools for fractional calculus and fractional order controls. <i>International Journal of Control</i> , 2017 , 90, 1165-1181	1.5	73
615	Regional controllability analysis of fractional diffusion equations with Riemann-Liouville time fractional derivatives. <i>Automatica</i> , 2017 , 76, 193-199	5.7	14
614	Maximum power point tracking with fractional order high pass filter for proton exchange membrane fuel cell. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2017 , 4, 70-79	7	18
613	Fractional-order exponential switching technique to enhance sliding mode control. <i>Applied Mathematical Modelling</i> , 2017 , 44, 705-726	4.5	100
612	An iterative learning approach to identify fractional order KiBaM model. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2017 , 4, 322-331	7	11
611	Fractional envelope analysis for rolling element bearing weak fault feature extraction. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2017 , 4, 353-360	7	24
610	A large-scale controlled experiment on pedestrian walking behavior involving individuals with disabilities. <i>Travel Behaviour & Society</i> , 2017 , 8, 14-25	5.3	20
609	Mechanical response and simulation for constitutive equations with distributed order derivatives. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2017 , 08, 1750040	0.8	4
608	Extended Luenberger-type observer for a class of semilinear time fractional diffusion systems. <i>Chaos, Solitons and Fractals</i> , 2017 , 102, 229-235	9.3	4
607	Design and Simulation of a New Brushless Doubly-Fed Pulsed Alternator for High-Energy Pulsed Lasers. <i>IEEE Transactions on Plasma Science</i> , 2017 , 45, 1115-1121	1.3	10
606	Challenges in Water Stress Quantification Using Small Unmanned Aerial System (sUAS): Lessons from a Growing Season of Almond. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2017 , 88, 721-735	2.9	23
605	Melon yield prediction using small unmanned aerial vehicles 2017 ,		9
604	Fractional order PID controller design for satisfying time and frequency domain specifications simultaneously. <i>ISA Transactions</i> , 2017 , 68, 212-222	5.5	31
603	A multichannel compressed sampling method for fractional bandlimited signals. <i>Signal Processing</i> , 2017 , 134, 139-148	4.4	7
602	BIBO stability of fractional-order controlled nonlinear systems. <i>International Journal of Systems Science</i> , 2017 , 48, 1507-1514	2.3	9
601	Stabilization of fractional-order coupled systems with time delay on networks. <i>Nonlinear Dynamics</i> , 2017 , 88, 521-528	5	8
600	Pinning synchronization of fractional-order delayed complex networks with non-delayed and delayed couplings. <i>International Journal of Control</i> , 2017 , 90, 1245-1255	1.5	20
599	An Application of the Seasonal Fractional ARIMA Model to the Semiconductor Manufacturing. <i>IFAC-PapersOnLine</i> , 2017 , 50, 8097-8102	0.7	3

598	Fractional Decision Making Model for Crowds of Pedestrians in Two-Alternative Choice Evacuation. <i>IFAC-PapersOnLine</i> , 2017 , 50, 11764-11769	0.7	1
597	A solid criterion based on strict LMI without invoking equality constraint for stabilization of continuous singular systems. <i>ISA Transactions</i> , 2017 , 71, 272-279	5.5	2
596	A New Cuckoo Search. <i>IFIP Advances in Information and Communication Technology</i> , 2017 , 75-83	0.5	0
595	Backstepping-based boundary feedback control for a fractional reaction diffusion system with mixed or Robin boundary conditions. <i>IET Control Theory and Applications</i> , 2017 , 11, 2964-2976	2.5	22
594	A shared control architecture based on electrooculogram signal and global vision for smart assistive robots 2017 ,		1
593	Design of fractional-order hyper-chaotic multi-scroll systems based on hysteresis series. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 3775-3789	2.3	7
592	SmartCaveDrone: 3D cave mapping using UAVs as robotic co-archaeologists 2017 ,		9
591	A new framework for UAV-based remote sensing data processing and its application in almond water stress quantification 2017 ,		12
590	Fixed-wing MAV adaptive PD control based on a modified MIT rule with sliding-mode control 2017 ,		3
589	2017 ,		12
588	Turing Patterns in the Lengyel-Epstein System with Superdiffusion. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1730026	2	16
587	A Survey of Fractional-Order Neural Networks 2017 ,		5
586	Image Segmentation Based on Fractional Differentiation and RSF Model 2017 ,		1
585	An Evaluation of ARFIMA Programs 2017 ,		1
584	Stability and synchronization of fractional-order memristive neural networks with multiple delays. <i>Neural Networks</i> , 2017 , 94, 76-85	9.1	68
583	Reply to Comments on Mittag-Leffler stability of fractional order nonlinear dynamic systems [Automatica 45(8) (2009) 1965-1969] <i>Automatica</i> , 2017 , 75, 330	5.7	1
582	Adaptive sliding mode control for a class of Caputo type fractional-order interval systems with perturbation. <i>IET Control Theory and Applications</i> , 2017 , 11, 57-65	2.5	13
581	Disturbance Rejection FOPID Control of Rotor by Multi-Objective BB-BC Optimization Algorithm 2017 ,		7

562	Fractional order equivalent series resistance modelling of electrolytic capacitor and fractional order failure prediction with application to predictive maintenance. <i>IET Power Electronics</i> , 2016 , 9, 1608-1613	2.2	25
561	Regional gradient controllability of sub-diffusion processes. <i>Journal of Mathematical Analysis and Applications</i> , 2016 , 440, 865-884	1.1	14
560	Fractional Order Extremum Seeking Control: Performance and Stability Analysis. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016 , 21, 1620-1628	5.5	19
559	Event-triggered H _∞ Markovian switching pinning control for group consensus of large-scale systems. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 2565-2575	2.5	12
558	Regional boundary controllability of time fractional diffusion processes. <i>IMA Journal of Mathematical Control and Information</i> , 2016 , dnw001	1.1	3
557	Frequency domain modelling and control of fractional-order system for permanent magnet synchronous motor velocity servo system. <i>IET Control Theory and Applications</i> , 2016 , 10, 136-143	2.5	36
556	Challenges in water stress quantification using small unmanned aerial system (sUAS): Lessons from a growing season of almond 2016 ,		1
555	Fractional order robust visual servoing control of a quadrotor UAV with larger sampling period 2016 ,		5
554	Modulated wideband convertor for bandlimited signals in fractional fourier domain 2016 ,		2
553	More Reliable Crop Water Stress Quantification Using Small Unmanned Aerial Systems (sUAS). <i>IFAC-PapersOnLine</i> , 2016 , 49, 409-414	0.7	15
552	Bifurcation dynamics of the tempered fractional Langevin equation. <i>Chaos</i> , 2016 , 26, 084310	3.3	7
551	Output Tracking of Nonholonomic Mobile Robots with a Model-free Fractional-order Visual Feedback. <i>IFAC-PapersOnLine</i> , 2016 , 49, 736-741	0.7	3
550	Fractional calculus in image processing: a review. <i>Fractional Calculus and Applied Analysis</i> , 2016 , 19, 1222-1249	2.1	105
549	Design and implementation of grid multi-scroll fractional-order chaotic attractors. <i>Chaos</i> , 2016 , 26, 084303	3.3	29
548	Guest editorial for special issue on fractional order systems and controls. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2016 , 3, 255-256	7	9
547	A fractional micro-macro model for crowds of pedestrians based on fractional mean field games. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2016 , 3, 261-270	7	18
546	On the regional controllability of the sub-diffusion process with Caputo fractional derivative. <i>Fractional Calculus and Applied Analysis</i> , 2016 , 19, 1262-1281	2.7	11
545	Fractional-order generalized principle of self-support (FOGPSS) in control system design. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2016 , 3, 430-441	7	6

544	Boundary feedback stabilisation for the time fractional-order anomalous diffusion system. <i>IET Control Theory and Applications</i> , 2016 , 10, 1250-1257	2.5	28
543	Event-triggered cooperative compensation control for consensus of heterogeneous multi-agent systems. <i>IET Control Theory and Applications</i> , 2016 , 10, 1573-1582	2.5	18
542	Performance analysis of fractional order extremum seeking control. <i>ISA Transactions</i> , 2016 , 63, 281-287	5.5	26
541	On the regional gradient observability of time fractional diffusion processes. <i>Automatica</i> , 2016 , 74, 1-9	5.7	14
540	An analysis of the effect of the bidirectional reflectance distribution function on remote sensing imagery accuracy from Small Unmanned Aircraft Systems 2016 ,		11
539	Output consensus for multiple non-holonomic systems under directed communication topology. <i>International Journal of Systems Science</i> , 2015 , 46, 451-463	2.3	12
538	Dynamic behaviours and control of fractional-order memristor-based system 2015 , 85, 91-104		11
537	Stability and synchronization of memristor-based fractional-order delayed neural networks. <i>Neural Networks</i> , 2015 , 71, 37-44	9.1	130
536	Short wave infrared (SWIR) imaging systems using small Unmanned Aerial Systems (sUAS) 2015 ,		5
535	Cooperative control design for non-holonomic chained-form systems. <i>International Journal of Systems Science</i> , 2015 , 46, 1525-1539	2.3	10
534	High-order algorithms for Riesz derivative and their applications (II). <i>Journal of Computational Physics</i> , 2015 , 293, 218-237	4.1	80
533	Adaptive fractional-order switching-type control method design for 3D fractional-order nonlinear systems. <i>Nonlinear Dynamics</i> , 2015 , 82, 39-52	5	143
532	Pre-filtering and head-dependent adaptive feed-forward compensation for translation vibration in hard-disc-drive. <i>Mechatronics</i> , 2015 , 27, 13-19	3	6
531	Backstepping dynamic surface control for a class of non-linear systems with time-varying output constraints. <i>IET Control Theory and Applications</i> , 2015 , 9, 2312-2319	2.5	57
530	2015 ,		1
529	A detailed field study of direct correlations between ground truth crop water stress and normalized difference vegetation index (NDVI) from small unmanned aerial system (sUAS) 2015 ,		21
528	Adaptive sliding-mode control for fractional-order uncertain linear systems with nonlinear disturbances. <i>Nonlinear Dynamics</i> , 2015 , 80, 51-58	5	76
527	Fractional-order adaptive minimum energy cognitive lighting control strategy for the hybrid lighting system. <i>Energy and Buildings</i> , 2015 , 87, 176-184	7	56

526	Compact difference method for solving the fractional reaction-subdiffusion equation with Neumann boundary value condition. <i>International Journal of Computer Mathematics</i> , 2015 , 92, 167-180	1.2	17
525	Concept of Operations of Small Unmanned Aerial Systems: Basis for Airworthiness Towards Personal Remote Sensing 2015 , 2339-2360		1
524	Cyber-Physical Systems Enabled by Small Unmanned Aerial Vehicles 2015 , 2835-2860		3
523	Chaos in the fractionally damped broadband piezoelectric energy generator. <i>Nonlinear Dynamics</i> , 2015 , 80, 1705-1719	5	42
522	Modeling Different Groups of Pedestrians With Physical Disability, Using the Social Force Model and Fractional Order Potential Fields 2015 ,		1
521	D-Stability Based LMI Criteria of Stability and Stabilization for Fractional Order Systems 2015 ,		14
520	A New Fractional Order Dynamic Model for Human Crowd Stampede System 2015 ,		2
519	Research on Image Matching Combining on Fractional Differential With Scale Invariant Feature Transform 2015 ,		4
518	Constrained Control for Brushless DC Motors With Fractional Friction Compensation 2015 ,		1
517	Cyber-physical modeling and control of crowd of pedestrians: a review and new framework. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2015 , 2, 334-344	7	21
516	Cyber-physical systems as general distributed parameter systems: three types of fractional order models and emerging research opportunities. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2015 , 2, 353-357	7	27
515	The Adjoint Systems of Time Fractional Diffusion Equations and Their Applications in Controllability Analysis 2015 ,		1
514	Regional Controllability of Anomalous Diffusion Generated by the Time Fractional Diffusion Equations 2015 ,		6
513	Regular and chaotic vibration in a piezoelectric energy harvester with fractional damping. <i>European Physical Journal Plus</i> , 2015 , 130, 1	3.1	27
512	Comparison principles and stability of nonlinear fractional-order cellular neural networks with multiple time delays. <i>Neurocomputing</i> , 2015 , 168, 618-625	5.4	65
511	High-order approximation to Caputo derivatives and Caputo-type advection-diffusion equations (II). <i>Fractional Calculus and Applied Analysis</i> , 2015 , 18, 735-761	2.7	57
510	Extremum seeking control with fractional-order switching technique design for maximum power point tracking in photovoltaic systems 2015 ,		3
509	Global Padé Approximations of the Generalized Mittag-Leffler Function and its Inverse. <i>Fractional Calculus and Applied Analysis</i> , 2015 , 18, 1492-1506	2.7	31

508	The airworthiness and protocol development for night flying missions for small unmanned aerial systems (sUASs) 2015 ,		1
507	Human operator modeling based on fractional order calculus in the manual control system with second-order controlled element 2015 ,		1
506	Fractional Order Model of Broadband Piezoelectric Energy Harvesters 2015 ,		2
505	New Result on Finite-Time Stability of Fractional-Order Nonlinear Delayed Systems. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015 , 10,	1.4	17
504	Iterative Learning and Fractional Reset Control 2015 ,		3
503	Multi-objective optimization of distributed-order fractional damping. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 24, 159-168	3.7	13
502	Fractional-order total variation image denoising based on proximity algorithm. <i>Applied Mathematics and Computation</i> , 2015 , 257, 537-545	2.7	47
501	Robust stability and stabilization of fractional-order linear systems with polytopic uncertainties. <i>Applied Mathematics and Computation</i> , 2015 , 257, 274-284	2.7	62
500	Maximum Power Point Tracking of Proton Exchange Membrane Fuel Cell With Fractional Order Filter and Extremum Seeking Control 2015 ,		2
499	Optimal random search, fractional dynamics and fractional calculus. <i>Fractional Calculus and Applied Analysis</i> , 2014 , 17,	2.7	13
498	Fractional-Order Complementary Filters for Small Unmanned Aerial System Navigation. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014 , 73, 429-453	2.9	9
497	Robust finite time stability of fractional-order linear delayed systems with nonlinear perturbations. <i>International Journal of Control, Automation and Systems</i> , 2014 , 12, 697-702	2.9	13
496	New results on stability and stabilization of a class of nonlinear fractional-order systems. <i>Nonlinear Dynamics</i> , 2014 , 75, 633-641	5	86
495	A Survey and Categorization of Small Low-Cost Unmanned Aerial Vehicle System Identification. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014 , 74, 129-145	2.9	65
494	Robust stability bounds of uncertain fractional-order systems. <i>Fractional Calculus and Applied Analysis</i> , 2014 , 17,	2.7	13
493	Small low-cost unmanned aerial vehicle system identification: Brief sensor survey and data quality, consistency checking, and reconstruction 2014 ,		1
492	Stability of fractional-order population growth model based on distributed-order approach 2014 ,		1
491	Optimal Collection of High Resolution Aerial Imagery with Unmanned Aerial Systems 2014 ,		4

490	Identification of linear fractional order systems using the relay feedback approach 2014,		11
489	On the existence of blow up solutions for a class of fractional differential equations. <i>Fractional Calculus and Applied Analysis</i> , 2014 , 17, 1175-1187	2.7	60
488	Multiple UAV Formations for Cooperative Source Seeking and Contour Mapping of a Radiative Signal Field. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014 , 74, 323-332	2.9	60
487	Pitch Loop Control of a VTOL UAV Using Fractional Order Controller. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014 , 73, 187-195	2.9	21
486	Monte Carlo Simulation Analysis of Tagged Fish Radio Tracking Performance by Swarming Unmanned Aerial Vehicles in Fractional Order Potential Fields. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014 , 74, 287-307	2.9	10
485	Application of fractional order current controller in three phase grid-connected PV systems 2014,		8
484	Authors' reply to Comments on Necessary and sufficient stability condition of fractional-order interval linear systems [Automatica 44 (2008) 2985-2988]. <i>Automatica</i> , 2014 , 50, 2736	5.7	
483	Survey of thermal infrared remote sensing for Unmanned Aerial Systems 2014,		11
482	A single-stage three-phase grid-connected photovoltaic system with fractional order MPPT 2014,		2
481	Fractional-Order Proportional Derivative Controller Synthesis and Implementation for Hard-Disk-Drive Servo System. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 281-289	4.8	34
480	Process Identification Using Relay Feedback with a Fractional Order Integrator. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 2010-2015		0
479	Ideal, Simplified and Inverted Decoupling of Fractional Order TITO Processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 2897-2902		10
478	Robust stability and stabilization of uncertain fractional-order descriptor nonlinear system. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 6080-6085		3
477	Optimal control of a diffusion process using networked unmanned aerial systems with smart health. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1254-1259		3
476	Fractional-order power rate type reaching law for sliding mode control of uncertain nonlinear system. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 5369-5374		2
475	High-Order Algorithms for Riesz Derivative and Their Applications(I). <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-17	0.7	23
474	2014,		11
473	Lyapunov Techniques for Stochastic Differential Equations Driven by Fractional Brownian Motion. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-9	0.7	2

472	The Existence and Uniqueness of a Class of Fractional Differential Equations. <i>Abstract and Applied Analysis</i> , 2014 , 2014, 1-6	0.7	6
471	Hand Sliding Mode Observers for Linear Time-Invariant Fractional-Order Dynamic Systems With Initial Memory Effect. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136,	1.6	8
470	Complete parametric identification of fractional order Hammerstein systems 2014 ,		3
469	2014 ,		4
468	Fractional-order sliding mode based extremum seeking control of a class of nonlinear systems. <i>Automatica</i> , 2014 , 50, 3173-3181	5.7	265
467	Fractional order iterative learning control for fractional order system with unknown initialization 2014 ,		4
466	An essay on unmanned aerial systems insurance and risk assessment 2014 ,		1
465	Lyapunov stability of fractional-order nonlinear systems: A distributed-order approach 2014 ,		2
464	On tempered and substantial fractional calculus 2014 ,		9
463	BICO MPPT: A Faster Maximum Power Point Tracker and Its Application for Photovoltaic Panels. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-9	2.1	7
462	Modeling, Analysis and Design of Control Systems in MATLAB and Simulink 2014 ,		15
461	Fractional order controller for pitch loop control of a VTOL UAV 2013 ,		5
460	Robust asymptotical stability of fractional-order linear systems with structured perturbations. <i>Computers and Mathematics With Applications</i> , 2013 , 66, 873-882	2.7	19
459	Fractional-order complementary filters for small unmanned aerial system navigation 2013 ,		1
458	Cooperative source seeking and contour mapping of a diffusive signal field by formations of multiple UAVs 2013 ,		6
457	Fractional-order TV-L2 model for image denoising. <i>Open Physics</i> , 2013 , 11,	1.3	19
456	Robust decentralized control of perturbed fractional-order linear interconnected systems. <i>Computers and Mathematics With Applications</i> , 2013 , 66, 844-859	2.7	12
455	Time domain analysis of the fractional order weighted distributed parameter Maxwell model. <i>Computers and Mathematics With Applications</i> , 2013 , 66, 813-823	2.7	10

454	Adaptive minimum energy cognitive lighting control: Integer order vs fractional order strategies in sliding mode based extremum seeking. <i>Mechatronics</i> , 2013 , 23, 863-872	3	39
453	Genetic Algorithm-Based Identification of Fractional-Order Systems. <i>Entropy</i> , 2013 , 15, 1624-1642	2.8	45
452	Synchronization of a Class of Fractional-Order Chaotic Neural Networks. <i>Entropy</i> , 2013 , 15, 3265-3276	2.8	62
451	Small low-cost unmanned aerial vehicle system identification: A survey and categorization 2013 ,		11
450	ADS-B for small Unmanned Aerial Systems: Case study and regulatory practices 2013 ,		31
449	Calibrating thermal imagery from an unmanned aerial system - AggieAir 2013 ,		6
448	Fractional Order Adaptive Feed-Forward Cancellation for Periodic Disturbances. <i>Asian Journal of Control</i> , 2013 , 15, 751-763	1.7	1
447	Tracking tagged fish with swarming Unmanned Aerial Vehicles using fractional order potential fields and Kalman filtering 2013 ,		12
446	2013 ,		3
445	Concept of Operations for Personal Remote Sensing Unmanned Aerial Systems. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013 , 69, 5-20	2.9	4
444	Low-cost Multi-UAV Technologies for Contour Mapping of Nuclear Radiation Field. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013 , 70, 401-410	2.9	101
443	Design, Modeling and Validation of a T-Tail Unmanned Aerial Vehicle. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013 , 69, 91-107	2.9	3
442	Dynamic analysis of a class of fractional-order neural networks with delay. <i>Neurocomputing</i> , 2013 , 111, 190-194	5.4	141
441	Disturbance observer design with Bode's ideal cut-off filter in hard-disc-drive servo system. <i>Mechatronics</i> , 2013 , 23, 856-862	3	15
440	Numerics for the fractional Langevin equation driven by the fractional Brownian motion. <i>Fractional Calculus and Applied Analysis</i> , 2013 , 16,	2.7	25
439	Stability and stabilization of fractional-order linear systems with convex polytopic uncertainties. <i>Fractional Calculus and Applied Analysis</i> , 2013 , 16,	2.7	41
438	Identification and tuning fractional order proportional integral controllers for time delayed systems with a fractional pole. <i>Mechatronics</i> , 2013 , 23, 746-754	3	76
437	Almost sure and moment stability properties of fractional order Black-Scholes model. <i>Fractional Calculus and Applied Analysis</i> , 2013 , 16,	2.7	18

436	Design, implementation and application of distributed order PI control. <i>ISA Transactions</i> , 2013 , 52, 429-375	3.5	34
435	A Survey on Fractional-Order Iterative Learning Control. <i>Journal of Optimization Theory and Applications</i> , 2013 , 156, 127-140	1.6	37
434	Control of a novel class of fractional-order chaotic systems via adaptive sliding mode control approach. <i>Applied Mathematical Modelling</i> , 2013 , 37, 2469-2483	4.5	156
433	Efficient control of a SmartWheel via Internet with compensation of variable delays. <i>Mechatronics</i> , 2013 , 23, 821-827	3	9
432	On P-type fractional order iterative learning identification 2013 ,		3
431	Stability Analysis of Linear Time-Invariant Distributed-Order Systems. <i>Asian Journal of Control</i> , 2013 , 15, 640-647	1.7	5
430	A Miniature Wildlife Tracking UAV Payload System Using Acoustic Biotelemetry 2013 ,		4
429	An Improved Maximum Power Point Tracking Based on Fractional Order Extremum Seeking Control in Grid-Connected Photovoltaic (PV) Systems 2013 ,		3
428	Nonlinear Dynamic Analysis of a Cracked Rotor-Bearing System With Fractional Order Damping. <i>Journal of Computational and Nonlinear Dynamics</i> , 2013 , 8,	1.4	15
427	Utilizing Augmented Reality Technology for Crowd Pedestrian Analysis Involving Individuals With Disabilities 2013 ,		9
426	Fractional-Order Total Variation Image Restoration Based on Primal-Dual Algorithm. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-10	0.7	17
425	Fractional Order Sliding Mode Control Based on Fractional Order Reaching Law: Reaching Condition Analysis and Experimental Validation 2013 ,		2
424	A Dynamic-Order Fractional Dynamic System. <i>Chinese Physics Letters</i> , 2013 , 30, 046601	1.8	10
423	Fractional Differential-Based Approach for CT Image Enhancement. <i>Advanced Materials Research</i> , 2013 , 634-638, 3962-3965	0.5	3
422	Fractional order constitutive model of geomaterials under the condition of triaxial test. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013 , 37, 961-972	4	53
421	Dynamic flight modeling of a multi-mode flying wing quadrotor aircraft 2013 ,		8
420	Matrix approach to discrete fractional calculus III: non-equidistant grids, variable step length and distributed orders. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120153	3	41
419	Fractional-order variational optical flow model for motion estimation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120148	3	17

418	Fractional calculus and its applications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20130037	3	22
417	A Guide for Selecting Small Unmanned Aerial Systems for Research-Centric Applications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 38-45		4
416	Optimal pest management by networked unmanned cropdusters in precision agriculture: A cyber-physical system approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 296-302		8
415	A Framework for Modeling and Managing Mass Pedestrian Evacuations Involving Individuals With Disabilities: Networked Segways as Mobile Sensors and Actuators 2013 ,		2
414	Take-Home Mechatronics Control Labs: A Low-Cost Personal Solution and Educational Assessment 2013 ,		13
413	Non-Local Fractional Differential-Based Approach for Image Enhancement. <i>Research Journal of Applied Sciences, Engineering and Technology</i> , 2013 , 6, 3244-3250	0.2	7
412	Minimum Energy Cognitive Lighting Control: Stability Analysis and Experiments 2013 ,		1
411	Fractional order and BICO disturbance observers for a run-of-mine ore milling circuit. <i>Journal of Process Control</i> , 2012 , 22, 3-10	3.9	30
410	The fBm-driven Ornstein-Uhlenbeck process: Probability density function and anomalous diffusion. <i>Fractional Calculus and Applied Analysis</i> , 2012 , 15,	2.7	14
409	Solving nonlinear stochastic differential equations with fractional Brownian motion using reducibility approach. <i>Nonlinear Dynamics</i> , 2012 , 67, 2719-2726	5	24
408	A Data Fusion System for Attitude Estimation of Low-cost Miniature UAVs. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012 , 65, 621-635	2.9	17
407	Experimental Study of Fractional Order PD Controller Design for Fractional Order Position Systems 2012 , 151-166		
406	Fractional Order PD Controller Synthesis and Implementation for an HDD Servo System 2012 , 389-405		
405	Lateral Directional Fractional Order Control of a Small Fixed-Wing UAV 2012 , 363-387		
404	Optimized Fractional Order Conditional Integrator 2012 , 347-361		
403	Fractional Order Ultra Low-Speed Position Control 2012 , 331-346		
402	Fractional Order Disturbance Observer 2012 , 223-236		0
401	Fractional Order Adaptive Feed-Forward Cancellation 2012 , 237-255		

400 Fractional Order Adaptive Compensation for Cogging Effect **2012**, 257-289

399 Fractional Order PID Control of a DC-Motor with Elastic Shaft **2012**, 307-329

398 Stability of fractional-order linear time-invariant systems with multiple noncommensurate orders. *Computers and Mathematics With Applications*, **2012**, 64, 3053-3058 2.7 22

397 Tracking performance and robustness analysis of Hurst estimators for multifractional processes. *IET Signal Processing*, **2012**, 6, 213 1.7 5

396 Stabilizing and robust fractional order PI controller synthesis for first order plus time delay systems. *Automatica*, **2012**, 48, 2159-2167 5.7 127

395 Nonlinear Diffusion Model for Fabric Image Denoising. *Advanced Materials Research*, **2012**, 627, 484-488 0.5

394 Lateral Channel Fractional Order Flight Controller Design for a Small UAV **2012**, 77-100

393 Cooperative Remote Sensing Using Multiple Unmanned Vehicles **2012**, 121-142 1

392 Remote Sensing Using Single Unmanned Aerial Vehicle **2012**, 101-120 1

391 Conclusions and Future Research Suggestions **2012**, 167-170

390 AggieAir: A Low-Cost Unmanned Aircraft System for Remote Sensing **2012**, 15-52

389 Diffusion Control Using Mobile Sensor and Actuator Networks **2012**, 143-165

388 Attitude Estimation Using Low-Cost IMUs for Small Unmanned Aerial Vehicles **2012**, 53-75

387 A framework for analyzing human factors in unmanned aerial systems **2012**, 2

386 . *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2012**, 59, 602-606 3.5 70

385 Fractional Order Periodic Adaptive Learning Compensation for State-Dependent Periodic Disturbance. *IEEE Transactions on Control Systems Technology*, **2012**, 20, 465-472 4.8 20

384 Robust iterative learning control via continuous sliding-mode technique with validation on an SRV02 rotary plant. *Mechatronics*, **2012**, 22, 588-593 3 19

383 Distributed-Order Dynamic Systems. *Springer Briefs in Electrical and Computer Engineering*, **2012**, 0.4 73

382	1-D and 2-D digital fractional-order Savitzky-Golay differentiator. <i>Signal, Image and Video Processing</i> , 2012 , 6, 503-511	1.6	24
381	Global Extremum Seeking Control with Sliding Modes for output-feedback global tracking of nonlinear systems 2012 ,		1
380	Theory and implementation of weighted distributed order integrator 2012 ,		5
379	Fractional Processes and Fractional-Order Signal Processing. <i>Signals and Communication Technology</i> , 2012 ,	0.5	110
378	Optimal Mobile Sensing and Actuation Policies in Cyber-physical Systems 2012 ,		23
377	Fractional-order circuit elements with memory 2012 ,		12
376	A FRACTIONAL ORDER UNIVERSAL HIGH GAIN ADAPTIVE STABILIZER. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250081	2	3
375	Analysis of Biocorrosion Electrochemical Noise Using Fractional Order Signal Processing Techniques. <i>Signals and Communication Technology</i> , 2012 , 189-202	0.5	1
374	An Overview of Fractional Processes and Fractional-Order Signal Processing Techniques. <i>Signals and Communication Technology</i> , 2012 , 31-46	0.5	6
373	Stability and Design Feasibility of Robust PID Controllers for FOPTD Systems 2012 , 175-198		
372	Impulse response of a generalized fractional second order filter. <i>Fractional Calculus and Applied Analysis</i> , 2012 , 15,	2.7	6
371	An interval Kalman filtering with minimal conservatism. <i>Applied Mathematics and Computation</i> , 2012 , 218, 9563-9570	2.7	11
370	Robust Position Control of PMSM Using Fractional-Order Sliding Mode Controller. <i>Abstract and Applied Analysis</i> , 2012 , 2012, 1-33	0.7	13
369	Hlder Scales of Sea Level. <i>Mathematical Problems in Engineering</i> , 2012 , 2012, 1-22	1.1	13
368	Effects of trends and seasonalities on robustness of the Hurst parameter estimators. <i>IET Signal Processing</i> , 2012 , 6, 849-856	1.7	10
367	Adaptive image enhancement based on fractional differential mask 2012 ,		4
366	DEALING WITH FRACTIONAL DYNAMICS OF IP NETWORK DELAYS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250089	2	6
365	FINITE DIFFERENCE SCHEMES FOR VARIABLE-ORDER TIME FRACTIONAL DIFFUSION EQUATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250085	2	87

364	EXPERIENCES ON AN INTERNET LINK CHARACTERIZATION AND NETWORKED CONTROL OF A SMART WHEEL. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1230015	2	6
363	MULTIFRACTIONAL PROPERTY ANALYSIS OF HUMAN SLEEP EEG SIGNALS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250080	2	5
362	2012 ,		1
361	A fractional order maximum power point tracker: Stability analysis and experiments 2012 ,		8
360	Thermal remote sensing with an autonomous unmanned aerial remote sensing platform for surface stream temperatures 2012 ,		20
359	Optimal Mobile Sensing with Fractional Sensor Dynamics 2012 , 97-116		
358	Distributed-Order Fractional Signal Processing. <i>Signals and Communication Technology</i> , 2012 , 161-176	0.5	
357	Constant-Order Fractional Signal Processing. <i>Signals and Communication Technology</i> , 2012 , 95-148	0.5	2
356	AggieVTOL. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2012 , 85-121	0.4	
355	Distributed-Order Linear Time-Invariant System (DOLTIS) and Its Stability Analysis. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2012 , 11-28	0.4	
354	Numerical Solution of Differential Equations of Distributed Order. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2012 , 59-74	0.4	
353	Noncommensurate Constant Orders as Special Cases of DOLTIS. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2012 , 29-37	0.4	
352	Heavy-Tailed Distribution and Local Memory in Time Series of Molecular Motion on the Cell Membrane. <i>Signals and Communication Technology</i> , 2012 , 217-231	0.5	
351	Multifractional Processes. <i>Signals and Communication Technology</i> , 2012 , 77-92	0.5	
350	Non-linear Transform Based Robust Adaptive Latency Change Estimation of Evoked Potentials. <i>Signals and Communication Technology</i> , 2012 , 233-242	0.5	
349	Multifractional Property Analysis of Human Sleep Electroencephalogram Signals. <i>Signals and Communication Technology</i> , 2012 , 243-250	0.5	0
348	Distributed-Order Filtering and Distributed-Order Optimal Damping. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2012 , 39-58	0.4	
347	2012 ,		12

346	2012,		50
345	Optimal Fractional-Order Damping Strategies. <i>Signals and Communication Technology</i> , 2012 , 203-215	0.5	1
344	Constant-Order Fractional Processes. <i>Signals and Communication Technology</i> , 2012 , 49-76	0.5	1
343	Variable-Order Fractional Signal Processing. <i>Signals and Communication Technology</i> , 2012 , 149-160	0.5	1
342	Linear matrix inequality criteria for robust synchronization of uncertain fractional-order chaotic systems. <i>Chaos</i> , 2011 , 21, 043107	3.3	25
341	A generalized fractional-order iterative learning control 2011,		13
340	Multi-agent coordination by iterative learning control: Centralized and decentralized strategies 2011,		6
339	On the robustness of Hurst estimators. <i>IET Signal Processing</i> , 2011 , 5, 209	1.7	19
338	Autonomous Flying Under 500 USD Based on RC Aircraft 2011,		4
337	Multivariable fractional order PID controller design via LMI approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 13960-13965		5
336	Consensus Based Formation Control of Multiple Small Rotary-Wing UAVs 2011,		3
335	Improved Architecture Designs for a Low Cost Personal Remote Sensing Platform: Flight Control and Safety 2011,		5
334	Mellin Convolution for Signal Filtering and Its Application to the Gaussianization of Lévy Noise 2011,		2
333	Digital Fractional Order Savitzky-Golay Differentiator and Its Application 2011,		3
332	Visual Attitude Estimation for Low-Cost Personal Remote Sensing Systems 2011,		2
331	Cognitive Multi-UAV Formation Flight: Principle, Low-Cost UAV Testbed, Controller Tuning and Experiments 2011,		10
330	Fractional Gain Scheduled Controller for a Networked Smart Wheel: Experimental Results. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 15043-15048		3
329	Time-constant robust analysis of a fractional order [proportional derivative] controller. <i>IET Control Theory and Applications</i> , 2011 , 5, 164	2.5	51

328	Dynamic high order periodic adaptive learning compensator for cogging effect in permanent magnet synchronous motor servo system. <i>IET Control Theory and Applications</i> , 2011 , 5, 669-680	2.5	13
327	Lateral directional fractional order (PI) control of a small fixed-wing unmanned aerial vehicles: controller designs and flight tests. <i>IET Control Theory and Applications</i> , 2011 , 5, 2156-2167	2.5	63
326	Convergence speed of a fractional order consensus algorithm over undirected scale-free networks. <i>Asian Journal of Control</i> , 2011 , 13, 936-946	1.7	48
325	Stability analysis of fractional-order systems with double noncommensurate orders for matrix case. <i>Fractional Calculus and Applied Analysis</i> , 2011 , 14,	2.7	17
324	A Physical experimental study of variable-order fractional integrator and differentiator. <i>European Physical Journal: Special Topics</i> , 2011 , 193, 93-104	2.3	50
323	A comparative study of constant-order and variable-order fractional models in characterizing memory property of systems. <i>European Physical Journal: Special Topics</i> , 2011 , 193, 185-192	2.3	214
322	Fractional-order iterative learning control for fractional-order linear systems. <i>Asian Journal of Control</i> , 2011 , 13, 54-63	1.7	101
321	Asymptotical Stability of Nonlinear Fractional Differential System with Caputo Derivative. <i>International Journal of Differential Equations</i> , 2011 , 2011, 1-12	0.8	22
320	Digital Fractional Order Savitzky-Golay Differentiator. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2011 , 58, 758-762	3.5	63
319	Robust iterative learning control synthesized with sliding-mode control for output tracking 2011 ,		1
318	Numerical approximation of nonlinear fractional differential equations with subdiffusion and superdiffusion. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 855-875	2.7	247
317	Optimized fractional order conditional integrator. <i>Journal of Process Control</i> , 2011 , 21, 960-966	3.9	4
316	Experimental study of fractional order proportional derivative controller synthesis for fractional order systems. <i>Mechatronics</i> , 2011 , 21, 204-214	3	76
315	Application of numerical inverse Laplace transform algorithms in fractional calculus. <i>Journal of the Franklin Institute</i> , 2011 , 348, 315-330	4	74
314	Fractional order ultra low-speed position servo: improved performance via describing function analysis. <i>ISA Transactions</i> , 2011 , 50, 53-60	5.5	12
313	Analytical impulse response of a fractional second order filter and its impulse response invariant discretization. <i>Signal Processing</i> , 2011 , 91, 498-507	4.4	24
312	FARIMA with stable innovations model of Great Salt Lake elevation time series. <i>Signal Processing</i> , 2011 , 91, 553-561	4.4	28
311	Random-order fractional differential equation models. <i>Signal Processing</i> , 2011 , 91, 525-530	4.4	56

310	On distributed order integrator/differentiator. <i>Signal Processing</i> , 2011 , 91, 1079-1084	4.4	28
309	Synthesis of multifractional Gaussian noises based on variable-order fractional operators. <i>Signal Processing</i> , 2011 , 91, 1645-1650	4.4	69
308	A NOVEL NOISE REMOVAL METHOD BASED ON FRACTIONAL ANISOTROPIC DIFFUSION AND SUBPIXEL APPROACH. <i>New Mathematics and Natural Computation</i> , 2011 , 07, 173-185	0.6	6
307	Stabilizing and robust FOPI controller synthesis for first order plus time delay systems 2011 ,		7
306	Remote output feedback stabilization for fractional-order systems via communication networks 2011 ,		3
305	Using a multispectral autonomous unmanned aerial remote sensing platform (AggieAir) for riparian and wetlands applications 2011 ,		26
304	On Riemann-Liouville and Caputo Derivatives. <i>Discrete Dynamics in Nature and Society</i> , 2011 , 2011, 1-15	1.1	107
303	Impulse Response of a Generalized Fractional Second Order Filter 2011 ,		1
302	Nonlinear Dynamic Analysis of a Cracked Rotor-Bearing System With Fractional Order Damping 2011 ,		1
301	Vehicle Platooning: A Brief Survey and Categorization 2011 ,		48
300	Multi-Group Consensus of Heterogeneous Fractional-Order Nonlinear Agents via Pinning Control 2011 ,		1
299	Tuning Fractional Order Proportional Integral Controllers for Time Delayed Systems With a Fractional Pole 2011 ,		7
298	Discrete Fractional Calculus: Non-Equidistant Grids and Variable Step Length 2011 ,		2
297	Theory and Implementation of Distributed-Order Element Networks 2011 ,		2
296	HEAVY-TAILED DISTRIBUTION AND LOCAL LONG MEMORY IN TIME SERIES OF MOLECULAR MOTION ON THE CELL MEMBRANE. <i>Fluctuation and Noise Letters</i> , 2011 , 10, 93-119	1.2	10
295	Fractional Order Constitutive Model of Geomaterials Under the Condition of Triaxial Test 2011 ,		2
294	A Data Fusion System for Attitude Estimation of Low-cost Miniature UAVs 2011 , 621-635		1
293	A frequency-domain approach to PD-type iterative learning control 2010 ,		2

292	Time-Optimal Control of Systems with Fractional Dynamics. <i>International Journal of Differential Equations</i> , 2010 , 2010, 1-16	0.8	24
291	Sensitivity function of LTI fractional order dynamic systems with respect to the orders 2010 ,		1
290	On the fractional-order distributed parameter low-pass filter 2010 ,		4
289	Smart remote sensing of environmental systems using Unmanned Air Vehicles 2010 ,		1
288	Remote stabilization for fractional-order systems via communication networks 2010 ,		2
287	A multifunctional HIL testbed for multirotor VTOL UAV actuator 2010 ,		14
286	Optimal trajectories of mobile remote sensors for parameter estimation in distributed Cyber-Physical Systems 2010 ,		4
285	Surface wind profile measurement using multiple small unmanned aerial vehicles 2010 ,		1
284	In-situ unmanned aerial vehicle (UAV) sensor calibration to improve automatic image orthorectification 2010 ,		5
283	Cooperative Sensing and Distributed Control of a Diffusion Process Using Centroidal Voronoi Tessellations. <i>Numerical Mathematics</i> , 2010 , 3, 162-177	1.5	6
282	Discussion on: Simple Fractional Order Model Structures and their Applications in Control System Design <i>European Journal of Control</i> , 2010 , 16, 695-696	2.5	4
281	Robust Stability and Stabilization of Fractional-Order Interval Systems with the Fractional Order α : The $0 < \alpha < 1$ Case. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 152-158	5.9	274
280	2010 ,		6
279	Fractional-order Systems and Controls. <i>Advances in Industrial Control</i> , 2010 ,	0.3	1075
278	Fractional Order Adaptive Control for Cogging Effect Compensation 2010 , 393-409		2
277	Stability Analysis of Fractional Order Universal Adaptive Stabilization 2010 , 357-368		4
276	2010 ,		3
275	Low-cost UAV-based thermal infrared remote sensing: Platform, calibration and applications 2010 ,		26

274	A comparative evaluation of low-cost IMUs for unmanned autonomous systems 2010 ,		27
273	Distributed coordination of networked fractional-order systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2010 , 40, 362-70		190
272	Periodic adaptive learning compensation of state-dependent disturbance. <i>IET Control Theory and Applications</i> , 2010 , 4, 529-538	2.5	7
271	Iterative learning control of a class of fractional order nonlinear systems 2010 ,		10
270	Fractional calculus, delay dynamics and networked control systems 2010 ,		13
269	On the bound of the Lyapunov exponents for the fractional differential systems. <i>Chaos</i> , 2010 , 20, 013123.3		50
268	A Fractional Order Proportional and Derivative (FOPD) Motion Controller: Tuning Rule and Experiments. <i>IEEE Transactions on Control Systems Technology</i> , 2010 , 18, 516-520	4.8	258
267	A fractional-order synchronization of two networked motion control systems 2010 ,		2
266	A variable-order fractional operator based synthesis method for multifractional Gaussian noise 2010 ,		1
265	D-optimal trajectories of mobile sensors with fractional dynamics for parameter estimation of distributed parameter systems 2010 ,		2
264	A class of fractional dynamic systems with fuzzy order 2010 ,		4
263	On distributed order low-pass filter 2010 ,		9
262	Stability of fractional-order nonlinear dynamic systems: Lyapunov direct method and generalized MittagLeffler stability. <i>Computers and Mathematics With Applications</i> , 2010 , 59, 1810-1821	2.7	921
261	Fractional order robust control for cogging effect compensation in PMSM position servo systems: Stability analysis and experiments. <i>Control Engineering Practice</i> , 2010 , 18, 1022-1036	3.9	68
260	Autopilots for small unmanned aerial vehicles: A survey. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 36-44	2.9	259
259	An improved Hurst parameter estimator based on fractional Fourier transform. <i>Telecommunication Systems</i> , 2010 , 43, 197-206	2.3	24
258	Cogging effect minimization in PMSM position servo system using dual high-order periodic adaptive learning compensation. <i>ISA Transactions</i> , 2010 , 49, 479-88	5.5	29
257	Tuning fractional order proportional integral controllers for fractional order systems. <i>Journal of Process Control</i> , 2010 , 20, 823-831	3.9	214

256	On mean square displacement behaviors of anomalous diffusions with variable and random orders. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 906-910	2.3	61
255	Fractional differential models for anomalous diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010 , 389, 2719-2724	3.3	95
254	Hardware-in-the-loop experimental study on a fractional order networked control system testbed. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010 , 15, 2486-2496	3.7	16
253	Roll-channel fractional order controller design for a small fixed-wing unmanned aerial vehicle. <i>Control Engineering Practice</i> , 2010 , 18, 761-772	3.9	60
252	An approximate method for numerically solving fractional order optimal control problems of general form. <i>Computers and Mathematics With Applications</i> , 2010 , 59, 1644-1655	2.7	140
251	Trajectory-keeping in satellite formation flying via robust periodic learning control. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 1655-1666	3.6	82
250	Optimal Observation for Cyber-physical Systems 2009 ,		39
249	Fractional order proportional and derivative controller synthesis for a class of fractional order systems: Tuning rule and hardware-in-the-loop experiment 2009 ,		6
248	Feasibility analysis on optimal sensor selection in cyber-physical systems 2009 ,		3
247	Fractional order plasma position control of the STOR-1M tokamak 2009 ,		6
246	Auto-tuning of FOPI and FO[PI] controllers with iso-damping property 2009 ,		11
245	Optimal mobile actuator/sensor network motion strategy for parameter estimation in a class of cyber physical systems 2009 ,		10
244	Fractional order periodic adaptive learning compensation for cogging effect in PMSM position servo system 2009 ,		3
243	An analytical design of Fractional Order Proportional Integral and [Proportional Integral] controllers for robust velocity servo 2009 ,		17
242	LabVIEW based experimental validation of fractional order motion controllers 2009 ,		1
241	Fractional Order Flight Control of a Small Fixed-Wing UAV: Controller Design and Simulation Study 2009 ,		5
240	Design and Implementation of Sensing and Estimation Software in AggieNav, a Small UAV Navigation Platform 2009 ,		5
239	Comparing Generalized Order PID Controllers for Networked Control Systems With Random Delays and Data Dropouts 2009 ,		1

238	Analogue Fractional-Order Generalized Memristive Devices 2009 ,		21
237	Using Multiple Open-Source Low-Cost Unmanned Aerial Vehicles (UAV) for 3D Photogrammetry and Distributed Wind Measurement 2009 ,		3
236	Robustness Analysis of the Estimators for Noisy Long-Range Dependent Time Series 2009 ,		2
235	Purely Analog Fractional Order PI Control Using Discrete Fractional Capacitors (Fractors): Synthesis and Experiments 2009 ,		5
234	Numerical Approximation and Error Estimation of a Time Fractional Order Diffusion Equation 2009 ,		2
233	Variable-order fractional differential operators in anomalous diffusion modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009 , 388, 4586-4592	3-3	356
232	Fractional-order integral and derivative controller for temperature profile tracking. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2009 , 34, 833-850	1	23
231	Matrix approach to discrete fractional calculus II: Partial fractional differential equations. <i>Journal of Computational Physics</i> , 2009 , 228, 3137-3153	4-1	289
230	State-dependent friction force compensation using periodic adaptive learning control. <i>Mechatronics</i> , 2009 , 19, 896-904	3	11
229	Mittag-Leffler stability of fractional order nonlinear dynamic systems. <i>Automatica</i> , 2009 , 45, 1965-1969	5-7	978
228	When is a Mittag-Leffler function a Nussbaum function?. <i>Automatica</i> , 2009 , 45, 1957-1959	5-7	19
227	Fractional order [proportional derivative] controller for a class of fractional order systems. <i>Automatica</i> , 2009 , 45, 2446-2450	5-7	212
226	Fractional order proportional integral (FOPI) and [proportional integral] (FO[PI]) controller designs for first order plus time delay (FOPTD) systems 2009 ,		18
225	Fractional-order memristive systems 2009 ,		15
224	Time-optimal control of fractional dynamic systems 2009 ,		4
223	2009 ,		6
222	Fractional order control - A tutorial 2009 ,		401
221	Fractional order networked control systems and random delay dynamics: A hardware-in-the-loop simulation study 2009 ,		12

220	AggieAir \bar{A} low-cost autonomous multispectral remote sensing platform: New developments and applications 2009 ,		13
219	Solution of fractional order optimal control problems using SVD-based rational approximations 2009 ,		9
218	Periodic adaptive learning control for velocity-dependent disturbance compensation 2009 ,		5
217	Using aerial images to calibrate the inertial sensors of a low-cost multispectral autonomous remote sensing platform (AggieAir) 2009 ,		3
216	Time Fractional Differential Equation Model With Random Derivative Order 2009 ,		1
215	Adomian \bar{B} Method Applied to Navier-Stokes Equation With a Fractional Order 2009 ,		1
214	Dynamic Formation Control Using Networked Mobile Sensors and Centroidal Voronoi Tessellations 2009 ,		1
213	Formations with Decentralized Centroidal Voronoi Tessellation Algorithm. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 13-18		1
212	A Simulation Study of Consensus Speed over Scale-Free Networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 74-79		1
211	The Modeling of Great Salt Lake Elevation Time Series Based on ARFIMA With Stable Innovations 2009 ,		1
210	Iterative Learning Control Via Weighted Local-Symmetrical-Integration. <i>Asian Journal of Control</i> , 2008 , 3, 352-356	1.7	5
209	A Practical Iterative Learning Path-Following Control Of An Omni-Directional Vehicle. <i>Asian Journal of Control</i> , 2008 , 4, 90-98	1.7	29
208	OPTIMAL SWITCHING CONTROL VIA DIRECT SEARCH OPTIMIZATION. <i>Asian Journal of Control</i> , 2008 , 6, 302-306	1.7	11
207	Fractional Order Linear Quadratic Regulator 2008 ,		15
206	Distributed coordination algorithms for multiple fractional-order systems 2008 ,		23
205	Experimental Validation of Consensus Algorithms for Multivehicle Cooperative Control. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 745-752	4.8	58
204	Low-Cost Multispectral Aerial Imaging using Autonomous Runway-Free Small Flying Wing Vehicles 2008 ,		18
203	D-optimal trajectory design of heterogeneous mobile sensors for parameter estimation of distributed systems 2008 ,		26

202	Design of dynamic periodic adaptive learning controller for long-term cogging effect compensation 2008,		1
201	Experimental Studies of a Fractional Order Universal Adaptive Stabilizer 2008,		7
200	Fractional-order integral and derivative controller design for temperature profile control 2008,		3
199	Fractional Order Signal Processing of Electrochemical Noises. <i>JVC/Journal of Vibration and Control,</i> 2008, 14, 1443-1456	2	14
198	Practical Tuning Rule Development for Fractional Order Proportional and Integral Controllers. <i>Journal of Computational and Nonlinear Dynamics,</i> 2008, 3,	1.4	107
197	Fractional Order Filter Enhanced LQR for Seismic Protection of Civil Structures. <i>Journal of Computational and Nonlinear Dynamics,</i> 2008, 3,	1.4	20
196	Experimental study of fractional order proportional integral (FOPI) controller for water level control 2008,		8
195	Linear and nonlinear model predictive control using a general purpose optimal control problem solver RIOTS 95 2008,		7
194	A Fractional Adaptation Scheme for Lateral Control of an AGV. <i>JVC/Journal of Vibration and Control,</i> 2008, 14, 1499-1511	2	51
193	Authentic simulation studies of periodic adaptive learning compensation of cogging effect in PMSM position servo system 2008,		2
192	A high order periodic adaptive learning compensator for cogging effect in PMSM position servo system. <i>Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics,</i> 2008,	2	1
191	A fractional order proportional and derivative (FOPD) controller tuning algorithm 2008,		2
190	A general-purpose low-cost compact spatial-temporal data logger and its applications 2008,		5
189	Dual-high-order periodic adaptive learning compensation for state-dependant periodic disturbance 2008,		3
188	Band-reconfigurable Multi-UAV-based Cooperative Remote Sensing for Real-time Water Management and Distributed Irrigation Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control,</i> 2008, 41, 11744-11749		42
187	Optimal Fractional Order Proportional Integral Controller for Varying Time-Delay Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control,</i> 2008, 41, 4910-4915		15
186	Discrete-time Intermittent Iterative Learning Controller with Independent Data Dropouts. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control,</i> 2008, 41, 12442-12447		32
185	Conservatism-free Robust Stability Check of Fractional-order Interval Linear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control,</i> 2008, 41, 15256-15261		2

184	Design and fabrication of a miniaturized electrochemical instrument and its preliminary evaluation. <i>Sensors and Actuators B: Chemical</i> , 2008 , 131, 516-524	8.5	17
183	Iteration domain H _∞ optimal iterative learning controller design. <i>International Journal of Robust and Nonlinear Control</i> , 2008 , 18, 1001-1017	3.6	38
182	Iterative learning control and repetitive control in hard disk drive industry: A tutorial. <i>International Journal of Adaptive Control and Signal Processing</i> , 2008 , 22, 325-343	2.8	96
181	Necessary and sufficient stability condition of fractional-order interval linear systems. <i>Automatica</i> , 2008 , 44, 2985-2988	5.7	176
180	Tuning and auto-tuning of fractional order controllers for industry applications. <i>Control Engineering Practice</i> , 2008 , 16, 798-812	3.9	664
179	Networked Boundary Control of Damped Wave Equations 2008 , 261-273		
178	Stability Analysis and Control of Repetitive Trajectory Systems in the State-Domain: Roller Coaster Application 2007 ,		1
177	Robustness of Fractional-order Boundary Control of Time Fractional Wave Equations with Delayed Boundary Measurement Using the Simple Predictor 2007 , 543-552		
176	Stability analysis of discrete-time iterative learning control systems with interval uncertainty. <i>Automatica</i> , 2007 , 43, 892-902	5.7	85
175	Evaluation of microbially influenced corrosion with electrochemical noise analysis and signal processing. <i>Electrochimica Acta</i> , 2007 , 52, 5795-5807	6.7	20
174	Robust stability test of a class of linear time-invariant interval fractional-order system using Lyapunov inequality. <i>Applied Mathematics and Computation</i> , 2007 , 187, 27-34	2.7	140
173	Spatial-based iterative learning control for motion control applications. <i>Meccanica</i> , 2007 , 42, 167-175	2.1	28
172	Consensus of information in distributed control of a diffusion process using centroidal Voronoi tessellations 2007 ,		4
171	Iterative Learning Control. <i>Communications and Control Engineering</i> , 2007 ,	0.6	71
170	Adjoint Fractional Differential Expressions and Operators 2007 , 1385		16
169	An Overview of Fractional Order Signal Processing (FOSP) Techniques 2007 , 1205		10
168	Modeling and Prediction of Great Salt Lake Elevation Time Series Based on ARFIMA 2007 , 1349		2
167	High-Order and Model Reference Consensus Algorithms in Cooperative Control of MultiVehicle Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 678-688	1.6	276

166	Fractional Order LQR for Optimal Robust Control of a Simple Structure 2007 , 1235		
165	Experimental implementation and validation of consensus algorithms on a mobile actuator and sensor network platform 2007 ,		1
164	Cooperative Control of Water Volumes of Parallel Ponds Attached to An Open Channel Based on Information Consensus with Minimum Diversion Water Loss 2007 ,		3
163	Wiener System Identification with Four-Segment and Analytically Invertible Nonlinearity Model. <i>Proceedings of the American Control Conference, 2007</i> ,	1.2	1
162	Practical Tuning of Fractional Order Proportional and Integral Controller (I): Tuning Rule Development 2007 , 1245		11
161	An Improved Hurst Parameter Estimator Based on Fractional Fourier Transform 2007 , 1223		4
160	Practical Tuning of Fractional Order Proportional and Integral Controller (II): Experiments 2007 , 1371		11
159	Optimal dynamic actuator location in distributed feedback control of a diffusion process. <i>International Journal of Sensor Networks, 2007</i> , 2, 169	0.8	15
158	Optimal mobile sensor motion planning under non-holonomic constraints for parameter estimation of distributed systems. <i>International Journal of Intelligent Systems Technologies and Applications, 2007</i> , 3, 277	0.5	13
157	Linear Feedback Control 2007 ,		141
156	Indirect iterative learning control for a discrete visual servo without a camera-robot model. <i>IEEE Transactions on Systems, Man, and Cybernetics, 2007</i> , 37, 863-76		46
155	State-dependent periodic adaptive disturbance compensation. <i>IET Control Theory and Applications, 2007</i> , 1, 1008-1014	2.5	16
154	Autopilots for Small Fixed-Wing Unmanned Air Vehicles: A Survey 2007 ,		51
153	Suboptimum H2 Pseudo-rational Approximations to Fractional-order Linear Time Invariant Systems 2007 , 61-75		8
152	Iterative Learning Control: Brief Survey and Categorization. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007</i> , 37, 1099-1121		872
151	Exact Maximum Singular Value Calculation of an Interval Matrix. <i>IEEE Transactions on Automatic Control, 2007</i> , 52, 510-514	5.9	11
150	Analytical piecewise radial distortion model for precision camera calibration. <i>IET Computer Vision, 2006</i> , 153, 468		12
149	Sensor Motion Planning in Distributed Parameter Systems Using Turing's Measure of Conditioning 2006 ,		12

148	Robust stability condition of an uncertain networked system with delayed data dropout in both forward and feedback channels 2006 ,		2
147	A Study of Grouping Effect On Mobile Actuator Sensor Networks for Distributed Feedback Control of Diffusion Process Using Central Voronoi Tessellations 2006 ,		10
146	Iterative Learning Control: A Tutorial and Big Picture View 2006 ,		57
145	LMI Approach to Iterative Learning Control Design 2006 ,		3
144	Local Analysis of Long Range Dependence Based on Fractional Fourier Transform 2006 ,		3
143	Hybrid symbolic and numerical simulation studies of time-fractional order wave-diffusion systems. <i>International Journal of Control</i> , 2006 , 79, 1462-1470	1.5	16
142	Leaderless Formation Control for Multiple Autonomous Vehicles 2006 ,		9
141	Omni-directional robotic wheel - a mobile real-time control systems laboratory 2006 ,		2
140	Simple and Efficient Extrinsic Camera Calibration Based on A Rational Model 2006 ,		4
139	Monotonic convergent iterative learning controller design based on interval model conversion. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 366-371	5.9	33
138	. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2006 , 36, 439-448		12
137	Iterative Learning Control Approach to a Diffusion Control Problem in an Irrigation Application 2006 ,		18
136	Maximum singular value and power of an interval matrix 2006 ,		1
135	A ROBUST TUNING METHOD FOR FRACTIONAL ORDER PI CONTROLLERS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 22-27		21
134	A Modified Approximation Method of Fractional Order System 2006 ,		90
133	Fractional Horsepower Dynamometer - A General Purpose Hardware-In-The-Loop Real-Time Simulation Platform for Nonlinear Control Research and Education 2006 ,		22
132	Fractional order PID control of a DC-motor with elastic shaft: a case study 2006 ,		15
131	ON AUTO-TUNING OF FRACTIONAL ORDER PID CONTROLLERS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 34-39		10

130	ROBUST STABILITY CHECKING OF A CLASS OF LINEAR INTERVAL FRACTIONAL ORDER SYSTEM USING LYAPUNOV INEQUALITY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 89-94		3
129	A FRACTIONAL ADAPTATION SCHEME FOR LATERAL CONTROL OF AN AGV. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 149-154		6
128	FRACTIONAL ORDER PROCESSING OF QUARTZ CRYSTAL MICROBALANCE BASED DNA BIOSENSOR SIGNALS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 188-193		1
127	UBIQUITOUS FRACTIONAL ORDER CONTROLS?. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 481-492		54
126	ELECTROCHEMICAL NOISE SIGNAL PROCESSING USING R/S ANALYSIS AND FRACTIONAL FOURIER TRANSFORM. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 182-187		1
125	Robust stability check of fractional order linear time invariant systems with interval uncertainties. <i>Signal Processing</i> , 2006 , 86, 2611-2618	4.4	162
124	Robust controllability of interval fractional order linear time invariant systems. <i>Signal Processing</i> , 2006 , 86, 2794-2802	4.4	81
123	Intermittent Iterative Learning Control 2006 ,		37
122	APPLICATIONS OF THE SPARSE HOUGH TRANSFORM FOR LASER DATA LINE FITTING AND SEGMENTATION. <i>International Journal of Robotics and Automation</i> , 2006 , 21,	1.3	2
121	Sub-Optimum H2 Rational Approximations to Fractional Order Linear Systems 2005 , 1527		12
120	Robust Controllability of Interval Fractional Order Linear Time Invariant Systems 2005 , 1537		13
119	Relay feedback tuning of robust PID controllers with iso-damping property. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2005 , 35, 23-31		94
118	Formation control: a review and a new consideration 2005 ,		67
117	. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 90-98	2	55
116	STABILITY ANALYSIS OF ITERATIVE LEARNING CONTROL SYSTEM WITH INTERVAL UNCERTAINTY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 282-287		
115	Formation control in mobile actuator/sensor networks 2005 ,		2
114	AUTO-TUNING OF FRACTIONAL LEAD-LAG COMPENSATORS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 319-324		14
113	SYNTHESIS OF A SPATIAL LOOKAHEAD PATH TRACKING CONTROLLER. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 481-486		1

112	ROBUSTNESS OF BOUNDARY CONTROL OF DAMPED WAVE EQUATIONS WITH LARGE DELAYS AT BOUNDARY MEASUREMENT. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 60-64		2
111	STATE-PERIODIC ADAPTIVE FRICTION COMPENSATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 7-12		
110	Monotonically convergent iterative learning control for linear discrete-time systems. <i>Automatica</i> , 2005 , 41, 1529-1537	5.7	80
109	IN BOX. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1733-1746	6.1	2
108	The Water Cycle across Scales. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1743-1746	6.1	1
107	Optimal mobile sensor motion planning under nonholonomic constraints for parameter estimation of distributed systems 2005 ,		4
106	Optimal Dynamic Actuator Location in Distributed Feedback Control of A Diffusion Process 2005 ,		3
105	Robustness of Boundary Control of Fractional Wave Equations With Delayed Boundary Measurement Using Fractional Order Controller and the Smith Predictor 2005 ,		3
104	A hybrid symbolic-numerical simulation method for some typical boundary control problems 2004 ,		1
103	Minimum-time swing-up of a rotary inverted pendulum by iterative impulsive control 2004 ,		4
102	Range identification for perspective dynamic system with single homogeneous observation 2004 ,		4
101	Time-optimal magnetic attitude control for small spacecraft 2004 ,		2
100	A Hybrid Symbolic-Numerical Simulation Method for Some Typical Boundary Control Problems. <i>Simulation</i> , 2004 , 80, 635-643	1.2	9
99	Diffusion-based path planning in mobile actuator-sensor networks (MAS-net): some preliminary results 2004 ,		21
98	Range identification for perspective dynamic systems using linear approximation 2004 ,		5
97	Continued Fraction Expansion Approaches to Discretizing Fractional Order Derivatives in Expository Review. <i>Nonlinear Dynamics</i> , 2004 , 38, 155-170	5	243
96	Boundary Stabilization and Disturbance Rejection for Time Fractional Order Diffusion Wave Equations. <i>Nonlinear Dynamics</i> , 2004 , 38, 339-354	5	23
95	Fractional Order Disturbance Observer for Robust Vibration Suppression. <i>Nonlinear Dynamics</i> , 2004 , 38, 355-367	5	52

94	On Fractional PI Controllers: Some Tuning Rules for Robustness to Plant Uncertainties. <i>Nonlinear Dynamics</i> , 2004 , 38, 369-381	5	184
93	Learning feedforward control using a dilated B-spline network: frequency domain analysis and design. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 355-66		25
92	Diffusion boundary determination and zone control via mobile actuator-sensor networks (MAS-net): challenges and opportunities 2004 ,		13
91	Simulation studies on the boundary stabilization and disturbance rejection for fractional diffusion-wave equation 2004 ,		3
90	A New Discretization Method for Fractional Order Differentiators via Continued Fraction Expansion 2003 , 761		22
89	On Fractional Order Disturbance Observer 2003 , 617		8
88	Using Fractional Calculus for Lateral and Longitudinal Control of Autonomous Vehicles. <i>Lecture Notes in Computer Science</i> , 2003 , 337-348	0.9	12
87	Two direct Tustin discretization methods for fractional-order differentiator/integrator. <i>Journal of the Franklin Institute</i> , 2003 , 340, 349-362	4	264
86	A new IIR-type digital fractional order differentiator. <i>Signal Processing</i> , 2003 , 83, 2359-2365	4.4	233
85	Flexible camera calibration using a new analytical radial undistortion formula with application to mobile robot localization 2003 ,		9
84	Optimal switching control via direct search optimization 2003 ,		1
83	Analytical stability bound for delayed second-order systems with repeating poles using Lambert function W. <i>Automatica</i> , 2002 , 38, 891-895	5.7	30
82	Discretization schemes for fractional-order differentiators and integrators. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2002 , 49, 363-367		348
81	Using Fractional Order Adjustment Rules and Fractional Order Reference Models in Model-Reference Adaptive Control. <i>Nonlinear Dynamics</i> , 2002 , 29, 269-279	5	158
80	Analytical Stability Bound for a Class of Delayed Fractional-Order Dynamic Systems. <i>Nonlinear Dynamics</i> , 2002 , 29, 191-200	5	139
79	PI-type iterative learning control revisited 2002 ,		4
78	WIRELESS VISUAL SERVOING FOR ODIS [AN UNDER CAR INSPECTION MOBILE ROBOT. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 1-6		1
77	ON MONOTONIC CONVERGENCE OF HIGH ORDER ITERATIVE LEARNING UPDATE LAWS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 19-24		9

76	High precision linear motor control via relay-tuning and iterative learning based on zero-phase filtering. <i>IEEE Transactions on Control Systems Technology</i> , 2001 , 9, 244-253	4.8	57
75	A high-order iterative learning controller with initial state learning. <i>IMA Journal of Mathematical Control and Information</i> , 2000 , 17, 111-121	1.1	3
74	Developments in Learning Control Systems 2000 , 217-253		
73	Terminal iterative learning control with an application to RTPCVD thickness control. <i>Automatica</i> , 1999 , 35, 1535-1542	5.7	88
72	An iterative learning controller with initial state learning. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 371-376	5.9	134
71	Extracting aerobomb's aerodynamic drag coefficient curve from theodolite data via iterative learning. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1999 , 32, 4341-4346		
70	Analysis of a high-order iterative learning control algorithm for uncertain nonlinear systems with state delays. <i>Automatica</i> , 1998 , 34, 345-353	5.7	135
69	High-order iterative learning identification of projectile's aerodynamic drag coefficient curve from radar measured velocity data. <i>IEEE Transactions on Control Systems Technology</i> , 1998 , 6, 563-570	4.8	29
68	Iterative Learning-Based Extraction of Aerobomb Drag. <i>Journal of Spacecraft and Rockets</i> , 1998 , 35, 237-240		2
67	Identifying Aerial Bomb's Aerodynamic Drag Coefficient Curve Using Optimal Dynamic Fitting Method. <i>Journal of Aircraft</i> , 1998 , 35, 971-975	1.6	
66	Robust Control of Functional Neuromuscular Stimulation System by Discrete-Time Iterative Learning 1998 , 351-370		
65	High-Order Iterative Learning Control of Discrete-Time Nonlinear Systems Using Current Iteration Tracking Error 1998 , 83-103		4
64	A robust high-order P-type iterative learning controller using current iteration tracking error. <i>International Journal of Control</i> , 1997 , 68, 331-342	1.5	55
63	Drag coefficient curve identification of projectiles from flight tests via optimal dynamic fitting. <i>Control Engineering Practice</i> , 1997 , 5, 627-636	3.9	10
62	Iterative learning identification of aerodynamic drag curve from tracking radar measurements. <i>Control Engineering Practice</i> , 1997 , 5, 1543-1553	3.9	5
61	Current iteration tracking error assisted iterative learning control of uncertain nonlinear discrete-time systems		7
60	Robust high-order P-type iterative learning control for a class of uncertain nonlinear systems		6
59	Extracting projectile's aerodynamic drag coefficient curve via high-order iterative learning identification		2

58	Iterative learning identification	2
57	A high-order terminal iterative learning control scheme [RTP-CVD application]	14
56	High-order iterative learning control of functional neuromuscular stimulation systems	2
55	Iterative learning control strategy for functional neuromuscular stimulation	1
54	Automatic dynamic flocking in mobile actuator sensor networks by central Voronoi tessellations	8
53	Algebraic H_∞ Design of Higher-Order Iterative Learning Controllers	4
52	Schur stability radius bounds for robust iterative learning controller design	4
51	Range identification for perspective dynamic systems with 3D imaging surfaces	1
50	A fractional order PID tuning algorithm for a class of fractional order plants	41
49	Optimal Spraying Control of a Diffusion Process Using Mobile Actuator Networks with Fractional Potential Field Based Dynamic Obstacle Avoidance	4
48	High-Order Consensus Algorithms in Cooperative Vehicle Systems	32
47	A new boundary control method for beam equation with delayed boundary measurement using modified Smith predictors	1
46	Iterative learning control with iteration-domain adaptive feedforward compensation	4
45	A separative high-order framework for monotonic convergent iterative learning controller design	10
44	Boundary Control of Wave Equations with Delayed Boundary Measurement	1
43	MASmote -A Mobility Node for MAS-net (Mobile Actuator Sensor Networks)	10
42	Stability of linear time invariant systems with interval fractional orders and interval coefficients	11
41	Relay feedback tuning of robust PID controllers with iso-damping property	3

40	Progressive fuzzy fusion control of two coupled inverted penduli	4
39	Fractional Calculus and Biomimetic Control	16
38	Actuation scheduling in mobile actuator networks for spatial-temporal feedback control of a diffusion process with dynamic obstacle avoidance	4
37	State-periodic adaptive compensation of cogging and Coulomb friction in permanent magnet linear motors	1
36	Diff/Wave-MAS2D: a simulation platform for measurement and actuation scheduling in distributed parameter systems with mobile actuators and sensors	6
35	Time-Optimal Path Planning of Moving Sensors for Parameter Estimation of Distributed Systems	4
34	Linear Independency of Interval Vectors and Its Applications to Robust Controllability Tests	1
33	Frequency domain adaptive learning feedforward control	9
32	Repetitive robot visual servoing via segmented gained neural network controller	2
31	Harnessing the nonrepetitiveness in iterative learning control	37
30	Singularity-free neural network controller with iterative training	1
29	An optimal design of PD-type iterative learning control with monotonic convergence	18
28	Visual servoing of an omni-directional mobile robot for alignment with parking lot lines	4
27	A comparative introduction of four fractional order controllers	21
26	Improved path following of USU ODIS by learning feedforward controller using dilated B-spline network	3
25	Optimization of a fed-batch fermentation process control competition problem using the NEOS server	4
24	On D/sup μ -type iterative learning control	9
23	Evapotranspiration Estimation with UAVs in Agriculture: A Review	9

22	AggieAir: Towards Low-cost Cooperative Multispectral Remote Sensing Using Small Unmanned Aircraft Systems		10
21	Robust Fractional-Order [Proportional Integral Derivative] Controller Design with Specification Constraints: More Flat Phase Idea. <i>International Journal of Control</i> ,1-39	1.5	1
20	Forecast analysis of the epidemics trend of COVID-19 in the United States by a generalized fractional-order SEIR model		18
19	A fractional-order SEIHDR model for COVID-19 with inter-city networked coupling effects		7
18	Management strategies and prediction of COVID-19 by a fractional order generalized SEIR model		2
17	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the US		20
16	Tuning Fractional Order PI Controllers for Fractional Order Velocity Systems with Experimental Validation45-62		
15	Time-Constant Robust Analysis and Design of Fractional Order [PD] Controller133-149		
14	Fractional Order [PD] Controller Synthesis for Position Systems113-131		
13	Relay Feedback Tuning of Robust PID Controllers63-77		
12	Fractional Order Periodic Adaptive Learning Compensation291-306		
11	Fractional Order [PD] Controller Design and Comparison for Fractional Order Position Systems167-174		
10	Fractional Order PI Controller Designs for Velocity Systems25-44		
9	Auto-Tuning of Fractional Order Controllers with Iso-Damping79-96		
8	Stability and Design Feasibility of Robust FOPI Controllers for FOPTD Systems199-221		
7	Fractional Order PD Controller Tuning for Position Systems97-111		
6	Desired dynamic equational proportional-integral-derivative controller design based on probabilistic robustness. <i>International Journal of Robust and Nonlinear Control</i> ,	3.6	2
5	Event-triggered robust tracking control for fractional-order uncertain systems. <i>Transactions of the Institute of Measurement and Control</i> ,014233122110466	1.8	

4	Evaluating a UAV-based mobile sensing system designed to quantify ecosystem-based methane		1
3	Observer design for time fractional reaction-diffusion systems with spatially varying coefficients and weighted spatial averages measurement. <i>International Journal of Systems Science</i> ,1-15	2.3	
2	Asymptotic stabilisation of coupled delayed time fractional reaction diffusion systems with boundary input disturbances via backstepping sliding-mode control. <i>International Journal of Systems Science</i> ,1-19	2.3	0
1	Is fractional-order chaos theory the new tool to model chaotic pandemics as Covid-19?. <i>Nonlinear Dynamics</i> ,	5	1