

Clara M Ionescu

List of Publications by Year in descending order

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309
papers

4,905
citations

87888

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h-index

138484

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all docs

322
docs citations

322
times ranked

2702
citing authors

#	ARTICLE	IF	CITATIONS
1	Impedance Spectroscopy Sensing Material Properties for Self-Tuning Ratio Control in Pharmaceutical Industry. Applied Sciences (Switzerland), 2022, 12, 509.	2.5	2
2	A Review of Recent Developments in Autotuning Methods for Fractional-Order Controllers. Fractal and Fractional, 2022, 6, 37.	3.3	30
3	Ergonomic and Economic Office Light Level Control. Energies, 2022, 15, 734.	3.1	3
4	Model Calibration of Pharmacokinetic-Pharmacodynamic Lung Tumour Dynamics for Anticancer Therapies. Journal of Clinical Medicine, 2022, 11, 1006.	2.4	8
5	Fractional Order Distributed Model Predictive Control of Fast and Strong Interacting Systems. Fractal and Fractional, 2022, 6, 179.	3.3	3
6	Fractional-Order PI Controller Design Based on Reference "to "Disturbance Ratio. Fractal and Fractional, 2022, 6, 224.	3.3	2
7	Time-frequency varying tissue impedance properties from noxious stimulation protocols. , 2022, , .		0
8	Optimizing radiotherapy with chemotherapy using PKPD modeling for lung cancer [*]. , 2022, , .		0
9	A Robust Auto-Tuning PID Controller Design based on S-Shaped Time Domain Response. , 2022, , .		2
10	An Open Source Patient Simulator for Design and Evaluation of Computer Based Multiple Drug Dosing Control for Anesthetic and Hemodynamic Variables. IEEE Access, 2021, 9, 8680-8694.	4.2	42
11	Distributed Formation Control for Multiagent Systems Using a Fractional-Order Proportional "Integral Structure. IEEE Transactions on Control Systems Technology, 2021, 29, 2738-2745.	5.2	14
12	Optimal Hardware and Control Co-Design Applied to an Active Car Suspension Setup. Machines, 2021, 9, 55.	2.2	5
13	A 6DOF Virtual Environment Space Docking Operation with Human Supervision. Applied Sciences (Switzerland), 2021, 11, 3658.	2.5	5
14	Hardware and control co-design enabled by a state-space formulation of cascaded, interconnected PID controlled systems. , 2021, , .		1
15	Perspectives on Hybrid Control of the Anesthesia-Hemodynamic System in the Pandemic Context* . , 2021, , .		0
16	An Experimental Approach towards Motion Modeling and Control of a Vehicle Transiting a Non-Newtonian Environment. Fractal and Fractional, 2021, 5, 104.	3.3	3
17	Lung cancer dynamics using fractional order impedance modeling on a mimicked lung tumor setup. Journal of Advanced Research, 2021, 32, 61-71.	9.5	22
18	Tailored Pharmacokinetic model to predict drug trapping in long-term anesthesia. Journal of Advanced Research, 2021, 32, 27-36.	9.5	11

#	ARTICLE	IF	CITATIONS
19	Lung Tumor Growth Modeling in Patients with NSCLC Undergoing Radiotherapy. IFAC-PapersOnLine, 2021, 54, 233-238.	0.9	3
20	Modeling and Analysis of Monitored vs. Self-reported Postsurgical Acute Pain in a Clinical Trial. IFAC-PapersOnLine, 2021, 54, 67-72.	0.9	1
21	Using convolutional neural network online estimators for predicting pain-level variability enables predictive control of anesthesia. , 2021, , .		6
22	Online identification of pain model in postanesthesia care unit for drug infusion optimization. , 2021, , .		4
23	Parametric models for monitoring respiratory properties in lung cancer. , 2021, , .		0
24	A comparison between FOIMC and FOPI controllers for a submerged robot. , 2021, , .		0
25	Development and validation of preliminary fractional order impedance models for experimental pain assessment. , 2021, , .		0
26	Pharmaco-impedance modelling for lung cancer therapy with predictive control. , 2021, , .		1
27	Outlining the Landscape of Personalized Lung Cancer Treatment in the Era of Cyber-Physical Systems [*] . , 2021, , .		0
28	A Low Computational Cost, Prioritized, Multi-Objective Optimization Procedure for Predictive Control Towards Cyber Physical Systems. IEEE Access, 2020, 8, 128152-128166.	4.2	12
29	Event-based fractional order control. Journal of Advanced Research, 2020, 25, 191-203.	9.5	24
30	Bioimpedance Sensor and Methodology for Acute Pain Monitoring. Sensors, 2020, 20, 6765.	3.8	26
31	Towards The Development of a Smart Drone Police: Illustration in Traffic Speed Monitoring. Journal of Physics: Conference Series, 2020, 1487, 012029.	0.4	2
32	Distributed Control of Second-Order Multi-Agent Systems: Fractional Integral Action and Consensus. , 2020, , .		2
33	Robust controller design: Recent emerging concepts for control of mechatronic systems. Journal of the Franklin Institute, 2020, 357, 7818-7844.	3.4	20
34	A Minimal PKPD Interaction Model for Evaluating Synergy Effects of Combined NSCLC Therapies. Journal of Clinical Medicine, 2020, 9, 1832.	2.4	17
35	Pain Detection with Bioimpedance Methodology from 3-Dimensional Exploration of Nociception in a Postoperative Observational Trial. Journal of Clinical Medicine, 2020, 9, 684.	2.4	20
36	Generalization of the FOPDT Model for Identification and Control Purposes. Processes, 2020, 8, 682.	2.8	24

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37	A multiscale pathway paradigm for pain characterization. , 2020, , 91-118.		0
38	The Application of a New PID Autotuning Method for the Steam/Water Loop in Large Scale Ships. Processes, 2020, 8, 196.	2.8	5
39	The Potential of Fractional Order Distributed MPC Applied to Steam/Water Loop in Large Scale Ships. Processes, 2020, 8, 451.	2.8	10
40	Image-Based and Fractional-Order Control for Mechatronic Systems. Advances in Industrial Control, 2020, , .	0.5	6
41	Context Aware Control Systems: An Engineering Applications Perspective. IEEE Access, 2020, 8, 215550-215569.	4.2	16
42	Application of Fractional-Order Control on Real-Time Targets. Advances in Industrial Control, 2020, , 123-138.	0.5	0
43	Visual Servoing Systems. Advances in Industrial Control, 2020, , 11-28.	0.5	0
44	Fractional-Order Control for TITO Systems. Advances in Industrial Control, 2020, , 89-96.	0.5	0
45	Sliding-Mode Control for a Class of Robotic Arms. Advances in Industrial Control, 2020, , 165-187.	0.5	0
46	Fractional-Order Controller for Visual Servoing Systems. Advances in Industrial Control, 2020, , 139-164.	0.5	0
47	Fractional-Order Control: General Aspects. Advances in Industrial Control, 2020, , 63-88.	0.5	1
48	Model-Based Management of Lung Cancer Radiation Therapy. IFAC-PapersOnLine, 2020, 53, 15928-15933.	0.9	3
49	Effect of Social Distancing for Office Landscape on the Ergonomic Illumination. IFAC-PapersOnLine, 2020, 53, 762-767.	0.9	3
50	Simulators for Image-Based Control Architecture. Advances in Industrial Control, 2020, , 99-122.	0.5	0
51	Image Feature Extraction and Evaluation. Advances in Industrial Control, 2020, , 29-61.	0.5	0
52	An Energy-Efficient Context Aware Solution for Environmental Assessment. IFAC-PapersOnLine, 2020, 53, 756-761.	0.9	1
53	Tuning of fractional order proportional integral/proportional derivative controllers based on existence conditions. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 384-391.	1.0	16
54	Realtime locomotion control of a snakeboard robot based on a novel model, enabling better physical insights. European Journal of Control, 2019, 45, 57-64.	2.6	4

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55	Models for Nociception Stimulation and Memory Effects in Awake and Aware Healthy Individuals. IEEE Transactions on Biomedical Engineering, 2019, 66, 718-726.	4.2	28
56	Computer-assisted Drug Delivery for General Anesthesia: Completing the Puzzle : Plenary Talk. , 2019, , .		1
57	Universal Direct Tuner for Loop Control in Industry. IEEE Access, 2019, 7, 81308-81320.	4.2	15
58	Distributed Model Predictive Control of Steam/Water Loop in Large Scale Ships. Processes, 2019, 7, 442.	2.8	7
59	Comparative Analysis of Distributed Model Predictive Control Strategies. , 2019, , .		3
60	Experimental validation of a hypothesis for lung tumour dynamic characterisation*. , 2019, , .		0
61	Experimental Measurement of Pain Stimulus Effects in Skin Impedance. , 2019, , .		5
62	Robust fractional-order auto-tuning for highly-coupled MIMO systems. Heliyon, 2019, 5, e02154.	3.2	11
63	Detection and Estimation of Moving obstacles for a UAV. IFAC-PapersOnLine, 2019, 52, 22-27.	0.9	3
64	Nonlinear Predictive Control Applied to Steam/Water Loop in Large Scale Ships. IFAC-PapersOnLine, 2019, 52, 868-873.	0.9	6
65	Robust Fractional Order PI Control for Cardiac Output Stabilisation. IFAC-PapersOnLine, 2019, 52, 994-999.	0.9	11
66	An Interdisciplinary, Low-Cost Methodological Framework for Analysing Dynamical Material Properties For Control-Related Applications. IFAC-PapersOnLine, 2019, 52, 159-164.	0.9	2
67	Towards a generic optimal co-design of hardware architecture and control configuration for interacting subsystems. Mechatronics, 2019, 63, 102275.	3.3	8
68	A Theoretical Framework to Determine RHP Zero Dynamics in Sequential Interacting Sub-Systems. Algorithms, 2019, 12, 102.	2.1	1
69	A Survey on Fractional Order Control Techniques for Unmanned Aerial and Ground Vehicles. IEEE Access, 2019, 7, 66864-66878.	4.2	48
70	The 5Wâ€™s for Control as Part of Industry 4.0: Why, What, Where, Who, and Whenâ€™A PID and MPC Control Perspective. Inventions, 2019, 4, 10.	2.5	39
71	A Survey of Recent Advances in Fractional Order Control for Time Delay Systems. IEEE Access, 2019, 7, 30951-30965.	4.2	120
72	Simple Alternatives to PID-Type Control for Processes with Variable Time-Delay. Processes, 2019, 7, 146.	2.8	18

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73	The Role of Systems, Man and Cybernetics in the Anesthesia Regulation Paradigm. , 2019, , .		0
74	A medical information system for monitoring respiratory function and related nonlinear dynamics. , 2019, , .		3
75	Detection and evaluation of events in EEG dynamics in post-surgery patients with physiological-based mathematical models. , 2019, , .		0
76	Automatic tuning of predictive control in a hydrostatic drive train system in nominal operation. , 2019, , .		0
77	First Order Plus Frequency Dependent Delay Modeling: New Perspective or Mathematical Curiosity?. , 2019, , .		1
78	Low Frequency Forced Oscillation Lung Function Test Can Distinguish Dynamic Tissue Non-linearity in COPD Patients. <i>Frontiers in Physiology</i> , 2019, 10, 1390.	2.8	12
79	Electrical circuits to mimic respiratory diseases: an interdisciplinary bachelor project. , 2019, , .		0
80	Multi-Objective Predictive Control Optimization with Varying Term Objectives: A Wind Farm Case Study. <i>Processes</i> , 2019, 7, 778.	2.8	10
81	Design and Practical Implementation of a Fractional Order Proportional Integral Controller (FOPI) for a Poorly Damped Fractional Order Process with Time Delay. , 2019, , .		3
82	Identification for Control of Suspended Objects in Non-Newtonian Fluids. <i>Fractional Calculus and Applied Analysis</i> , 2019, 22, 1378-1394.	2.2	12
83	Robust Fractional Order Control of LPV Dynamic Mechatronic Systems. , 2019, , .		4
84	Multiple UAVs Formation for Emergency Equipment and Medicines Delivery Based on Optimal Fractional Order Controllers. , 2019, , .		7
85	Experiment Design and Estimation Methodology of Varying Properties for Non-Newtonian Fluids. , 2019, , .		0
86	Fractional-order modeling of impedance measurements in a blood-resembling experimental setup*. , 2019, , .		0
87	A nonovershooting tracking controller for simultaneous infusion of anesthetics and analgesics. <i>Biomedical Signal Processing and Control</i> , 2019, 49, 375-387.	5.7	12
88	A comparison of propofol-to-BIS post-operative intensive care sedation by means of target controlled infusion, Bayesian-based and predictive control methods: an observational, open-label pilot study. <i>Journal of Clinical Monitoring and Computing</i> , 2019, 33, 675-686.	1.6	41
89	Added Value of Other Clinical Tests. , 2019, , 163-169.		0
90	Diagnosis of Asthma and Chronic Obstructive Pulmonary Disease. , 2019, , 171-184.		0

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91	Fractional-order PID design: Towards transition from state-of-art to state-of-use. ISA Transactions, 2019, 84, 178-186.	5.7	54
92	A Distributed Model Predictive Control Strategy for the Bullwhip Reducing Inventory Management Policy. IEEE Transactions on Industrial Informatics, 2019, 15, 932-941.	11.3	25
93	Liquid-to-solid ratio control as an advanced process control solution for continuous twin-screw wet granulation. AIChE Journal, 2018, 64, 2500-2514.	3.6	19
94	An efficient algorithm for low-order direct discrete-time implementation of fractional order transfer functions. ISA Transactions, 2018, 74, 229-238.	5.7	60
95	The development of an autonomous navigation system with optimal control of an UAV in partly unknown indoor environment. Mechatronics, 2018, 49, 187-196.	3.3	59
96	A computationally efficient Hill curve adaptation strategy during continuous monitoring of dose-effect relation in anaesthesia. Nonlinear Dynamics, 2018, 92, 843-852.	5.2	38
97	A novel fractional-order model and controller for vibration suppression in flexible smart beam. Nonlinear Dynamics, 2018, 93, 525-541.	5.2	17
98	Vibration suppression in multi-body systems by means of disturbance filter design methods. JVC/Journal of Vibration and Control, 2018, 24, 2957-2969.	2.6	4
99	Reducing bias in fractional order impedance estimation for lung function evaluation. Biomedical Signal Processing and Control, 2018, 39, 74-80.	5.7	20
100	Fractional Order Modeling and Control of a Carrier Prototype for Targeted Drug Delivery. , 2018, , .		2
101	Proportional-Integral State-Feedback Controller Optimization for a Full-Car Active Suspension Setup using a Genetic Algorithm. IFAC-PapersOnLine, 2018, 51, 1-6.	0.9	9
102	Benchmark Challenge: a robust fractional order control autotuner for the Refrigeration Systems based on Vapor Compression. IFAC-PapersOnLine, 2018, 51, 31-36.	0.9	3
103	A Nonovershooting Controller with Integral Action for Multi-input Multi-output Drug Dosing Control. IFAC-PapersOnLine, 2018, 51, 60-65.	0.9	1
104	Hypnosis regulation in presence of saturation, surgical stimulation and additional bolus infusion – This work is part of a research funded by Flanders Research Centre, grant nr G026514N, 1501517N, 12B3415N.. IFAC-PapersOnLine, 2018, 51, 84-89.	0.9	2
105	An Analysis of Dynamic Lighting Control in Landscape Offices. IFAC-PapersOnLine, 2018, 51, 232-237.	0.9	7
106	Design and Implementation of a Real-Time Autonomous Navigation System Applied to Lego Robots. IFAC-PapersOnLine, 2018, 51, 340-345.	0.9	2
107	PID based Particle Swarm Optimization in Offices Light Control. IFAC-PapersOnLine, 2018, 51, 382-387.	0.9	10
108	Multivariable Fractional Order PI Autotuning Method for Heterogeneous Dynamic Systems. IFAC-PapersOnLine, 2018, 51, 865-870.	0.9	6

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109	A Robust PID Autotuning Method for Steam/Water Loop in Large Scale Ships. IFAC-PapersOnLine, 2018, 51, 462-467.	0.9	2
110	A Robust PID Autotuning Method Applied to the Benchmark PID18. IFAC-PapersOnLine, 2018, 51, 521-526.	0.9	6
111	IMC based PID Control Applied to the Benchmark PID18. IFAC-PapersOnLine, 2018, 51, 728-732.	0.9	5
112	A fractional order impedance individualised model of nociceptor stimulation. IFAC-PapersOnLine, 2018, 51, 416-421.	0.9	2
113	Autotuning of a Robust Fractional Order PID Controller. IFAC-PapersOnLine, 2018, 51, 466-471.	0.9	16
114	Structural vibration attenuation using a fractional order PD controller designed for a fractional order process. IFAC-PapersOnLine, 2018, 51, 533-538.	0.9	2
115	Effect of Control Horizon in Model Predictive Control for Steam/Water Loop in Large-Scale Ships. Processes, 2018, 6, 265.	2.8	16
116	Calibration of UR10 Robot Controller through Simple Auto-Tuning Approach. Robotics, 2018, 7, 35.	3.5	12
117	Experimental Validation of a Novel Auto-Tuning Method for a Fractional Order PI Controller on an UR10 Robot. Algorithms, 2018, 11, 95.	2.1	11
118	An Application to Robot Manipulator Joint Control by Using Constrained PID Based PSO. , 2018, , .		3
119	Efficient disturbance rejection for dead-time processes using internal model control. , 2018, , .		2
120	An industrially relevant formulation of a distributed model predictive control algorithm based on minimal process information. Journal of Process Control, 2018, 68, 240-253.	3.3	31
121	Advantage of Lowâ€Cost Predictive Control: Study Case on a Train of Distillation Columns. Chemical Engineering and Technology, 2018, 41, 1936-1948.	1.5	6
122	Analytical modeling and preliminary fractional order velocity control of a small scale submersible. , 2018, , .		8
123	Anesthesia regulation: Towards completing the picture. , 2018, , .		6
124	A Fractional Order Controller for Delay Dominant Systems. Application to a Continuous Casting Line. Journal of Applied Nonlinear Dynamics, 2018, 8, 67-78.	0.3	1
125	Discrete-time internal model control with disturbance and vibration rejection. JVC/Journal of Vibration and Control, 2017, 23, 3-15.	2.6	19
126	Evaluation of respiratory properties by means of fractional order models. Biomedical Signal Processing and Control, 2017, 34, 206-213.	5.7	29

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127	The role of fractional calculus in modeling biological phenomena: A review. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 51, 141-159.	3.3	448
128	Monitoring respiratory impedance by wearable sensor device: Protocol and methodology. <i>Biomedical Signal Processing and Control</i> , 2017, 36, 57-62.	5.7	23
129	The drone ambulance [A-UAS]: golden bullet or just a blank?. <i>Resuscitation</i> , 2017, 116, 46-48.	3.0	65
130	Towards a cyber-medical system for drug assisting devices. <i>Journal of Physics: Conference Series</i> , 2017, 783, 012053.	0.4	1
131	Decoupled Control for the Bicycling UGent Knee Rig: Design, Implementation, and Validation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 1685-1694.	5.8	8
132	Data-driven modelling of drug tissue trapping using anomalous kinetics. <i>Chaos, Solitons and Fractals</i> , 2017, 102, 441-446.	5.1	43
133	On the use of fractional order PK-PD models. <i>Journal of Physics: Conference Series</i> , 2017, 783, 012050.	0.4	0
134	Fractional calculus for respiratory mechanics: Power law impedance, viscoelasticity, and tissue heterogeneity. <i>Chaos, Solitons and Fractals</i> , 2017, 102, 433-440.	5.1	53
135	Optimized PID control of depth of hypnosis in anesthesia. <i>Computer Methods and Programs in Biomedicine</i> , 2017, 144, 21-35.	4.7	80
136	Motion compensation for robotic lung tumour radiotherapy in remote locations: A personalised medicine approach. <i>Acta Astronautica</i> , 2017, 132, 59-66.	3.2	16
137	Design and experimental validation of an adaptive control law to maximize the power generation of a small-scale waste heat recovery system. <i>Applied Energy</i> , 2017, 203, 549-559.	10.1	32
138	A Three-Year Feedback Study of a Remote Laboratory Used in Control Engineering Studies. <i>IEEE Transactions on Education</i> , 2017, 60, 127-133.	2.4	37
139	A memory-based model for blood viscosity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 45, 29-34.	3.3	27
140	Body levelling of a hexapod robot using the concept of sensor fusion. , 2017, , .		2
141	Patient specific model based induction of hypnosis using fractional order control. <i>IFAC-PapersOnLine</i> , 2017, 50, 15097-15102.	0.9	8
142	A Data-driven Gain Adaptation Mechanism for Flexible Usability in the UGent Knee Rig. <i>IFAC-PapersOnLine</i> , 2017, 50, 12210-12215.	0.9	2
143	Anesthesiologist in the Loop and Predictive Algorithm to Maintain Hypnosis While Mimicking Surgical Disturbance. <i>IFAC-PapersOnLine</i> , 2017, 50, 15080-15085.	0.9	23
144	Fractional order modeling and control of a smart beam. , 2017, , .		0

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145	Comparative evaluation of a novel principle for PID autotuning. , 2017, , .		16
146	A methodology for control structure adaptation in presence of varying, unknown sub-system interaction degree. , 2017, , .		1
147	Guided closed loop control of analgesia: Are we there yet?. , 2017, , .		3
148	Minimal information based, simple identification method of fractional order systems for model-based control applications. , 2017, , .		2
149	Structural changes in the COPD lung and related heterogeneity. PLoS ONE, 2017, 12, e0177969.	2.5	30
150	Discrete-Time Implementation and Experimental Validation of a Fractional Order PD Controller for Vibration Suppression in Airplane Wings. Acta Polytechnica Hungarica, 2017, 14, .	2.9	5
151	Fractional Order Impedance Model to Estimate Glucose Concentration: in Vitro Analysis. Acta Polytechnica Hungarica, 2017, 14, .	2.9	11
152	Real-Time Optimization of Organic Rankine Cycle Systems by Extremum-Seeking Control. Energies, 2016, 9, 334.	3.1	23
153	Robust autotuning MPC for a class of process control applications. , 2016, , .		4
154	Decoupled PID control with gain adaptation for a cycling dynamic knee rig. , 2016, , .		3
155	Energy efficiency management in vehicles using road profile and predictive control: A conceptual study. , 2016, , .		1
156	From viscoelastic models to lung function devices. , 2016, , .		1
157	Closed loop control of an electromagnetic stirrer in the continuous casting process. , 2016, , .		6
158	Autotuning method for a fractional order controller for a multivariable ¹³ C isotope separation column. , 2016, , .		1
159	Inversion-based propofol dosing for intravenous induction of hypnosis. Communications in Nonlinear Science and Numerical Simulation, 2016, 39, 481-494.	3.3	46
160	Interdisciplinary project-based learning at master level: control of robotic mechatronic systems. IFAC-PapersOnLine, 2016, 49, 314-319.	0.9	4
161	Robust PID Auto-tuning for the Quadruple Tank System. IFAC-PapersOnLine, 2016, 49, 919-924.	0.9	11
162	Reference Tracking using a Non-Cooperative Distributed Model Predictive Control Algorithm. IFAC-PapersOnLine, 2016, 49, 1079-1084.	0.9	7

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163	Constrained Multivariable Predictive Control of a Train of Cryogenic 13C Separation Columns. IFAC-PapersOnLine, 2016, 49, 1103-1108.	0.9	3
164	Online weight estimation in a robotic gripper arm. , 2016, , .		3
165	Multivariable control of sextuple tank system with non-minimum phase dynamics. , 2016, , .		4
166	Modelling Doxorubicin effect in various cancer therapies by means of fractional calculus. , 2016, , .		6
167	Fan-based device for non-invasive measurement of respiratory impedance: Identification, calibration and analysis. Biomedical Signal Processing and Control, 2016, 30, 127-133.	5.7	16
168	Nonlinear identification and control of Organic Rankine Cycle systems using sparse polynomial models. , 2016, , .		4
169	Modelling and identification of a coupled sextuple water tank system. , 2016, , .		3
170	Fractional order modeling of diffusion processes: A new approach for glucose concentration estimation. , 2016, , .		3
171	Model based control strategies for a class of nonlinear mechanical sub-systems. , 2016, , .		0
172	Modelling for control of depth of hypnosis - a patient friendly approach. , 2016, , .		3
173	In vitro glucose concentration estimation by means of fractional order impedance models. , 2016, , .		3
174	Automatic calibration with robust control of a six DoF mechatronic system. Mechatronics, 2016, 35, 102-108.	3.3	9
175	A novel auto-tuning method for fractional order PI/PD controllers. ISA Transactions, 2016, 62, 268-275.	5.7	118
176	A constrained EPSAC approach to inventory control for a benchmark supply chain system. International Journal of Production Research, 2016, 54, 232-250.	7.5	15
177	Tuning algorithms for fractional order internal model controllers for time delay processes. International Journal of Control, 2016, 89, 579-593.	1.9	69
178	Robust penalty adaptive model predictive control (PAMPC) of constrained, underdamped, noncollocated systems. JVC/Journal of Vibration and Control, 2016, 22, 549-558.	2.6	4
179	Design and analysis of a multivariable fractional order controller for a non-minimum phase system. JVC/Journal of Vibration and Control, 2016, 22, 2187-2195.	2.6	12
180	Critically Safe General Anaesthesia in Closed Loop: Availability and Challenges. IFAC-PapersOnLine, 2015, 48, 551-556.	0.9	3

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181	Development and student evaluation of an Internet-based Control Engineering Laboratory. IFAC-PapersOnLine, 2015, 48, 1-6.	0.9	5
182	Development of a control strategy for efficient operation of a CSTR reactor. , 2015, , .		1
183	Estimation of Patient Sensitivity to Drug Effect during Propofol Hypnosis. , 2015, , .		16
184	A pragmatic approach to distributed nonlinear model predictive control: Application to a hydrostatic drivetrain. Optimal Control Applications and Methods, 2015, 36, 369-380.	2.1	8
185	Tracking performance evaluation in presence of hard nonlinearities for oscillatory antenna control. , 2015, , .		0
186	Sliding Mode Control for a Class of Sub-Systems with Fractional Order Varying Trajectory Dynamics. Fractional Calculus and Applied Analysis, 2015, 18, 1441-1451.	2.2	12
187	Experimental study of Predictive Control strategies for optimal operation of Organic Rankine Cycle systems. , 2015, , .		9
188	Control of a Train of High Purity Distillation Columns for Efficient Production of ^{13}C Isotopes. , 2015, , .		0
189	Quantifying and mitigating the bullwhip effect in a benchmark supply chain system by an extended prediction self-adaptive control ordering policy. Computers and Industrial Engineering, 2015, 81, 46-57.	6.3	38
190	Advanced Model-Based Control Studies for the Induction and Maintenance of Intravenous Anaesthesia. IEEE Transactions on Biomedical Engineering, 2015, 62, 832-841.	4.2	79
191	Fractional dynamics and its applications. Nonlinear Dynamics, 2015, 80, 1661-1664.	5.2	50
192	Theoretical Analysis and Experimental Validation of a Simplified Fractional Order Controller for a Magnetic Levitation System. IEEE Transactions on Control Systems Technology, 2015, , 1-1.	5.2	28
193	Comparison of linear control algorithms for a class of nonlinear mechanical actuators. , 2015, , .		2
194	Nonlinear dynamics of the patient's response to drug effect during general anesthesia. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 914-926.	3.3	54
195	Fractional order control of unstable processes: the magnetic levitation study case. Nonlinear Dynamics, 2015, 80, 1761-1772.	5.2	56
196	Drug delivery system for general anesthesia: Where are we?. , 2014, , .		14
197	Improving performance for a ^{13}C isotope separation plant using multivariable fractional order controllers. , 2014, , .		1
198	Fractional-order feedback control of a poorly damped system. , 2014, , .		6

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199	Power law and fractional derivative models can measure analgesia. , 2014, , .		0
200	Modelling drug interaction using a fractional order pharmacokinetic model. , 2014, , .		4
201	Estimation of respiratory impedance at low frequencies during spontaneous breathing using the forced oscillation technique. , 2014, 2014, 3410-3.		5
202	Analysis of robustness to gain variation in a fractional-order PI controller for knee joint motion. , 2014, , .		5
203	Robust and two-level (nonlinear) predictive control of switched dynamical systems with unknown references for optimal wet-clutch engagement. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2014, 228, 233-244.	1.0	15
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