Mihailo Lazarevic

List of Publications by Year
in descending order

60	1,251	516215 16	377514 34
papers	citations	h-index	g-index

60	60	60	1013
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Finite-time stability analysis of fractional order time-delay systems: Gronwallâ€™s approach. Mathematical and Computer Modelling, 2009, 49, 475-481.	2.0	274
2	Finite time stability analysis of PDÎ± fractional control of robotic time-delay systems. Mechanics Research Communications, 2006, 33, 269-279.	1.0	166
3	Neural network Reinforcement Learning for visual control of robot manipulators. Expert Systems With Applications, 2013, 40, 1721-1736.	4.4	108
4	Nonlocal mass-nanosensor model based on the damped vibration of single-layer graphene sheet influenced by in-plane magnetic field. International Journal of Mechanical Sciences, 2015, 96-97, 132-142.	3.6	65
5	Fractal boundary value problems for integral and differential equations with local fractional operators. Thermal Science, 2015, 19, 959-966.	0.5	62
6	Redundancy problem in writing: from human to anthropomorphic robot arm. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 790-805.	5.5	55
7	Finite-time stability of delayed systems. IMA Journal of Mathematical Control and Information, 2000, 17, 101-109.	1.1	53
8	Dominant pole placement with fractional order PID controllers: D-decomposition approach. ISA Transactions, 2017, 67, 76-86.	3.1	49
9	Nonlocal vibration of a fractional order viscoelastic nanobeam with attached nanoparticle. Theoretical and Applied Mechanics, 2015, 42, 167-190.	0.1	41
10	Modeling of bioimpedance for human skin based on fractional distributed-order modified cole model. FME Transactions, 2014, 42, 74-81.	0.7	38
11	Robust second-order PDÎ± type iterative learning control for a class of uncertain fractional order singular systems. JVC/Journal of Vibration and Control, 2016, 22, 2004-2018.	1.5	28
12	Electroviscoelasticity of liquid/liquid interfaces: fractional-order model. Journal of Colloid and Interface Science, 2005, 282, 223-230.	5.0	25
13	Damped vibration of a nonlocal nanobeam resting on viscoelastic foundation: fractional derivative model with two retardation times and fractional parameters. Meccanica, 2017, 52, 363-382.	1.2	21
14	A variable-order fractal derivative model for anomalous diffusion. Thermal Science, 2017, 21, 51-59.	0.5	21
15	Further results on the stability of linear nonautonomous systems with delayed state defined over finite time interval. , 2000, , .		20
16	Elements of mathematical phenomenology of self-organization nonlinear dynamical systems: Synergetics and fractional calculus approach. International Journal of Non-Linear Mechanics, 2015, 73, 31-42.	1.4	19
17	Analysis of electrical circuits including fractional order elements. , 2017, , .		18
18	Human-like behavior of robot arms: general considerations and the handwriting taskâ€”Part II: the robot arm in handwriting. Robotics and Computer-Integrated Manufacturing, 2001, 17, 317-327.	6.1	17

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19	A new approach to the phenomena at the interfaces of finely dispersed systems. Journal of Colloid and Interface Science, 2007, 316, 984-995.	5.0	14
20	Fractional PID Controller Tuned by Genetic Algorithms for a Three DOF's Robot System Driven by DC motors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 385-390.	0.4	14
21	Fractional-order model for the vibration of a nanobeam influenced by an axial magnetic field and attached nanoparticles. Acta Mechanica, 2018, 229, 4791-4815.	1.1	14
22	Fractional order spring/spring-pot/actuator element in a multibody system: Application of an expansion formula. Mechanics Research Communications, 2014, 62, 44-56.	1.0	12
23	Advanced quaternion forward kinematics algorithm including overview of different methods for robot kinematics. FME Transactions, 2014, 42, 189-199.	0.7	10
24	The fractional PID controllers tuned by genetic algorithms for expansion turbine in the cryogenic air separation process. Hemijska Industrija, 2014, 68, 519-528.	0.3	9
25	D-decomposition technique for stabilization of Furuta pendulum: fractional approach. Bulletin of the Polish Academy of Sciences: Technical Sciences, 2016, 64, 189-196.	0.8	8
26	Some electromechanical systems and analogies of mem-systems integer and fractional order. , 2016, , .		7
27	Comparison of Numerical Simulation Models for Open Loop Flight Simulations in the Human Centrifuge. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 485-486.	0.2	6
28	Flight Simulation Training Devices: Application, Classification, and Research. International Journal of Aeronautical and Space Sciences, 2021, 22, 874-885.	1.0	6
29	Fractional order PD control of Furuta pendulum: D-decomposition approach. , 2014, , .		5
30	PD^{Î±}-type iterative learning control for fractional-order singular time-delay system. , 2017, , .		5
31	Electron and momentum transfer phenomena at developed deformable and rigid liquid-liquid interfaces. Chemical Industry and Chemical Engineering Quarterly, 2006, 12, 123-132.	0.4	5
32	Analysis the brachistochronic motion of a mechanical system with nonlinear nonholonomic constraint. FME Transactions, 2014, 42, 290-296.	0.7	5
33	Stabilization of double inverted pendulum system by using a fractional differential compensator. , 2017, , .		4
34	Determination of joint reactions in a rigid multibody system, two different approaches. FME Transactions, 2016, 44, 165-173.	0.7	4
35	Optimal conventional and fractional PID control algorithm for a robotic system with three degrees of freedom driven by DC motors. , 2011, , .		3
36	Feedback-feedforward iterative learning control for fractional order uncertain time delay system-PD alpha type. , 2014, , .		3

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37	Influence of sperm impact angle on successful fertilization through mZP oscillatory spherical net model. Computers in Biology and Medicine, 2015, 59, 19-29.	3.9	3
38	Stabilization of Inverted Pendulum by Fractional Order PD Controller with Experimental Validation: D-decomposition Approach. Advances in Intelligent Systems and Computing, 2017, , 29-37.	0.5	3
39	Closed-loop iterative learning control for fractional-order linear singular time-delay system: PDÎ±-type. Scientific Technical Review, 2018, 68, 17-25.	0.3	3
40	Fractional-order iterative learning control for singular fractional- order system: (P) - PDa type. Scientific Technical Review, 2016, 66, 40-49.	0.3	3
41	Robust finite-time stability of uncertain neutral nonhomogeneous fractional-order systems with time-varying delays. Theoretical and Applied Mechanics, 2020, 47, 241-255.	0.1	3
42	Parametric frequency analysis of oscillatory behavior of mouse Zona Pellucida spherical net model: cases of successful and of unsuccessful fertilization. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 53-54.	0.2	2
43	Equations of Motion of Robotic System With Piezo-Modified Viscoelastic and Magnetorheological Elements of Fractional Order. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 227-228.	0.2	2
44	Optimal tuning of fractional PIDC^α controller in the frequency domain. , 2014, , .		2
45	COMPUTED TORQUE CONTROL FOR A SPATIAL DISORIENTATION TRAINER. Facta Universitatis, Series: Mechanical Engineering, 2020, 18, 269.	2.3	2
46	Biologically inspired control and modeling of (bio)robotic systems and some applications of fractional calculus in mechanics. Theoretical and Applied Mechanics, 2013, 40, 163-187.	0.1	2
47	Integration of system design and production processes in robust mechatronic product architectures development - extended M-FBFP framework. Hemijska Industrija, 2013, 67, 759-771.	0.3	2
48	Implementation of Dual Quaternion-based Robot Forward Kinematics Algorithm in ROS. , 2022, , .		2
49	Biologically inspired optimal control of robotic system:synergy approach. , 2009, , .		1
50	Robotic system with viscoelastic element modeled via fractional Zener model. , 2014, , .		1
51	Some Applications of Biomimetics and Fractional Calculus in Control and Modeling of (Bio)robotic Systems. Mechanisms and Machine Science, 2014, , 227-241.	0.3	1
52	Multi-mode active vibration control of a nanobeam using a non-square MIMO PID controller. , 2017, , .		1
53	Fractional-order iterative learning control for robotic Arm-PD2DÎ± type. Filomat, 2021, 35, 1-10.	0.2	1
54	Development of the Algorithm for Energy Efficiency Improvement of Bulk Material Transport System. Electronics, 0, , .	0.2	1

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55	Conditions for dynamic balance of a rigid body with heavy foot. FME Transactions, 2015, 43, 55-61.	0.7	1
56	Procedure for definition of end-effector orientation in planar surfaces robot applications. Tehnika, 2017, 72, 845-851.	0.0	1
57	Further Results on Finite Time Partial Stability of Fractional Order Time Delay Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 155-160.	0.4	0
58	State space constrained iterative learning control for 3DOF robotic manipulator. FME Transactions, 2021, 49, 429-436.	0.7	0
59	Non-Lyapunov stability of the fractional-order time-varying delay systems. Scientific Technical Review, 2015, 65, 8-18.	0.3	0
60	Influence of the Sperm Velocity on Fertilization Capacity in the Oscillatory Model of Mouse Zona Pellucida. Lecture Notes in Mechanical Engineering, 2020, , 1-21.	0.3	0