Daniela Iacoviello

List of Publications by Year
in descending order

78 papers	916 citations	516561 16 h-index	501076 28 g-index
79 all docs	79 docs citations	79 times ranked	833 citing authors

#	Article	IF	Citations
1	Optimal Resource Allocation for Fast Epidemic Monitoring in Networked Populations. , 2022, , .		1
2	Optimal Social Limitation Reduction under Vaccination and Booster Doses. , 2022, , .		0
3	A state dependent switching optimal control as a formalization of political interventions. , 2022, , .		0
4	Dynamical Evolution of COVID-19 in Italy With an Evaluation of the Size of the Asymptomatic Infective Population. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1326-1332.	3.9	26
5	Evaluation of the effect of different policies in the containment of epidemic spreads for the COVID-19 case. Biomedical Signal Processing and Control, 2021, 65, 102325.	3.5	19
6	A Control Based Mathematical Model for the Evaluation of Intervention Lines in COVID-19 Epidemic Spread: The Italian Case Study. Symmetry, 2021, 13, 890.	1.1	2
7	A multi-group epidemic model to represent the COVID-19 spread among regions: analysis of the Italian case. , 2021, , .		0
8	A data-driven model of the COVID-19 spread among interconnected populations: epidemiological and mobility aspects following the lockdown in Italy. Nonlinear Dynamics, 2021, 106, 1-28.	2.7	12
9	Modeling, Analysis and Control of COVID-19 in Italy: Study of Scenarios. , 2021, , .		1
10	On Local Observer Design for LQR Problems with Tracking. Lecture Notes in Electrical Engineering, 2021, , 35-60.	0.3	0
11	Optimal exit strategy design for COVID-19. , 2021, , .		2
12	Vaccination and Time Limited Immunization for SARS-CoV-2 Infection. , 2021, , .		0
13	Modeling, Analysis and Control of COVID-19 in Italy: Study of Scenarios. , 2021, , .		0
14	Singular Solution in Optimal Control for Two Input Dynamics: the case of a SIRC Epidemic Model. , 2020, , .		1
15	Age Based Modelling of SARS-CoV-2 Contagion: the Italian case. , 2020, , .		1
16	Data driven characterization of COVID-19. , 2020, , .		0
17	Epidemic modeling and control of HIV/AIDS dynamics in populations under external interactions: A worldwide challenge. , 2020, , 197-249.		2
18	A State Dependent Approach to Resource Allocation Strategies. Lecture Notes in Electrical Engineering, 2020, , 314-336.	0.3	0

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19	Direct Integrability for State Feedback Optimal Control with Singular Solutions. Lecture Notes in Electrical Engineering, 2020, , 482-502.	0.3	0
20	Self-induced emotions as alternative paradigm for driving brain–computer interfaces. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 512-519.	1.3	3
21	Modeling the Effects of Prevention and Early Diagnosis on HIV/AIDS Infection Diffusion. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2119-2130.	5.9	35
22	Physiological Cybernetics: Methods and Applications. Lecture Notes in Computational Vision and Biomechanics, 2019, , 131-147.	0.5	0
23	Optimal Resource Allocation to Reduce an Epidemic Spread and Its Complication. Information (Switzerland), 2019, 10, 213.	1.7	7
24	Optimal Control of Virus Spread under Different Conditions of Resources Limitations. Information (Switzerland), 2019, 10, 214.	1.7	0
25	The influence of the choice of the cost index on the effectiveness of optimal resources allocation strategies for Hepatitis B Virus treatment. , 2019, , .		0
26	Modeling and control of measles epidemic spread with immunodepressed individuals and possible complications. , 2019, , .		0
27	A linear quadratic regulator for nonlinear SIRC epidemic model. , 2019, , .		3
28	An optimal control approach to public investments for unemployment reduction. , 2019, , .		0
29	Analysis, Simulation and Control of a New Measles Epidemic Model. , 2019, , .		7
30	An Improvement in a Local Observer Design for Optimal State Feedback Control: The Case Study of HIV/AIDS Diffusion. , 2019, , .		2
31	Optimal Control to Limit the Propagation Effect of a Virus Outbreak on a Network. , 2019, , .		0
32	HIV Infection Control: A Constructive Algorithm for a State-based Switching Control. International Journal of Control, Automation and Systems, 2018, 16, 1469-1473.	1.6	15
33	A Brain Computer Interface by EEG Signals from Self-induced Emotions. Lecture Notes in Computational Vision and Biomechanics, 2018, , 713-721.	0.5	4
34	Optimal Control with Singular Solution for SIR Epidemic Systems. , 2018, , .		0
35	An Output Feedback Control with State Estimation for the Containment of the HIV / AIDS Diffusion. , 2018, , .		1
36	Modeling and control of an epidemic disease under possible complication. , 2018, , .		7

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37	Optimal Control to reduce the HIV/AIDS spread. , 2018, , .		5
38	LQ control design for the containment of the HIV/AIDS diffusion. Control Engineering Practice, 2018, 77, 162-173.	3.2	14
39	State Feedback Optimal Control with Singular Solution for a Class of Nonlinear Dynamics. , 2018, , .		3
40	Fatigue crack propagation in Ductile Cast Irons: an Artificial Neural Networks based model. Procedia Structural Integrity, 2017, 3, 291-298.	0.3	4
41	Classification of ductile cast iron specimens based on image analysis and support vector machine. Procedia Structural Integrity, 2017, 3, 283-290.	0.3	11
42	A new model of the HIV/AIDS infection diffusion and analysis of the intervention effects. , 2017, , .		5
43	Experimental damage evaluation of open and fatigue cracks of multi-cracked beams by using wavelet transform of static response via image analysis. Structural Control and Health Monitoring, 2017, 24, e1902.	1.9	51
44	Optimal control of SIR epidemic model with state dependent switching cost index. Biomedical Signal Processing and Control, 2017, 31, 377-380.	3.5	53
45	Design of a Classification Strategy for Light Microscopy Images of the Human Liver. Lecture Notes in Computer Science, 2017, , 626-636.	1.0	1
46	An Optimal Control Problem Formulation for a State Dependent Resource Allocation Strategy. , 2017, , .		5
47	A Virtual System for Balance Control Assessment at Home. Communications in Computer and Information Science, 2017, , 12-25.	0.4	0
48	An Affective BCI Driven by Self-induced Emotions for People with Severe Neurological Disorders. Lecture Notes in Computer Science, 2017, , 155-162.	1.0	1
49	Classification of ductile cast iron specimens: a machine learning approach. Frattura Ed Integrita Strutturale, 2017, 11, 231-238.	0.5	3
50	A Classification Algorithm for Electroencephalography Signals by Self-Induced Emotional Stimuli. IEEE Transactions on Cybernetics, 2016, 46, 3171-3180.	6.2	39
51	A Modular Framework for EEG Web Based Binary Brain Computer Interfaces to Recover Communication Abilities in Impaired People. Journal of Medical Systems, 2016, 40, 34.	2.2	15
52	Classification of Emotional Signals from the DEAP dataset. , 2016, , .		19
53	Graphite Nodules Influence on DCIs Mechanical Properties: experimental and Numerical Investigation. Procedia Engineering, 2015, 109, 135-143.	1.2	12
54	Computational modeling of objects presented in images: fundamentals, methods and applications. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2015, 3, 61-62.	1.3	0

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55	A virtual system for postural stability assessment based on a TOF camera and a mirror. , 2015, , .		4
56	A Stochastic Delay Differential Model of Cerebral Autoregulation. PLoS ONE, 2015, 10, e0118456.	1.1	3
57	EEG-detected olfactory imagery to reveal covert consciousness in minimally conscious state. Brain Injury, 2015, 29, 1729-1735.	0.6	25
58	A real-time classification algorithm for EEG-based BCI driven by self-induced emotions. Computer Methods and Programs in Biomedicine, 2015, 122, 293-303.	2.6	72
59	A Poll Oriented Classifier for Affective Brain Computer Interfaces. , 2015, , .		5
60	Macro and microscopical approach to the damaging micromechanisms analysis in a ferritic ductile cast iron. Theoretical and Applied Fracture Mechanics, 2014, 69, 26-33.	2.1	48
61	A low-cost real time virtual system for postural stability assessment at home. Computer Methods and Programs in Biomedicine, 2014, 117, 322-333.	2.6	26
62	Optimal bone density distributions: Numerical analysis of the osteocyte spatial influence in bone remodeling. Computer Methods and Programs in Biomedicine, 2014, 113, 80-91.	2.6	39
63	Overall design and implementation of the virtual glove. Computers in Biology and Medicine, 2013, 43, 1927-1940.	3.9	37
64	Modeling of Trabecular Architecture as Result of an Optimal Control Procedure. Lecture Notes in Computational Vision and Biomechanics, 2013, , 19-37.	0.5	13
65	Segmentation Based Pattern Recognition for Peri-Urban Areas in X Band SAR Images. Lecture Notes in Computational Vision and Biomechanics, 2013, , 275-289.	0.5	0
66	Optimal control for SIRC epidemic outbreak. Computer Methods and Programs in Biomedicine, 2013, 110, 333-342.	2.6	42
67	Graphite nodules features identifications and damaging micromechanims in ductile irons. Frattura Ed Integrita Strutturale, 2013, 7, 12-21.	0.5	5
68	Mobile phone emission modulates event-related desynchronization of alpha rhythms and cognitive–motor performance in healthy humans. Clinical Neurophysiology, 2012, 123, 121-128.	0.7	29
69	An optimal control procedure for bone adaptation under mechanical stimulus. Control Engineering Practice, 2012, 20, 575-583.	3.2	43
70	Optimal-tuning PID control of adaptive materials for structural efficiency. Structural and Multidisciplinary Optimization, 2011, 43, 43-59.	1.7	35
71	Integrating X-SAR images and anthropic factors for fire susceptibility assessment. , 2011, , .		1
72	A Discrete Level Set Approach for Texture Analysis of Microscopic Liver Images. Computational Methods in Applied Sciences (Springer), 2011, , 113-123.	0.1	2

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73	Robust real time eye tracking for computer interface for disabled people. Computer Methods and Programs in Biomedicine, 2009, 96, 1-11.	2.6	43
74	A Robust Eye Tracking Procedure for Medical and Industrial Applications. , 2009, , 173-185.		1
75	A discrete level set approach to image segmentation. Signal, Image and Video Processing, 2007, 1, 303-320.	1.7	17
76	Analysis of pupil fluctuations after a light stimulus by image processing and neural network. Computers and Mathematics With Applications, 2007, 53, 1260-1270.	1.4	5
77	Parametric characterization of the form of the human pupil from blurred noisy images. Computer Methods and Programs in Biomedicine, 2005, 77, 39-48.	2.6	15
78	Steel's potential doubling time and its estimation in cell populations affected by nonuniform cell loss. Mathematical Biosciences, 1997, 143, 61-89.	0.9	14