

# Daniela Iacoviello

## List of Publications by Year in descending order

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Version: 2024-02-01

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	A real-time classification algorithm for EEG-based BCI driven by self-induced emotions. <i>Computer Methods and Programs in Biomedicine</i> , 2015, 122, 293-303.	2.6	72
2	Optimal control of SIR epidemic model with state dependent switching cost index. <i>Biomedical Signal Processing and Control</i> , 2017, 31, 377-380.	3.5	53
3	Experimental damage evaluation of open and fatigue cracks of multi-cracked beams by using wavelet transform of static response via image analysis. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1902.	1.9	51
4	Macro and microscopical approach to the damaging micromechanisms analysis in a ferritic ductile cast iron. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 69, 26-33.	2.1	48
5	Robust real time eye tracking for computer interface for disabled people. <i>Computer Methods and Programs in Biomedicine</i> , 2009, 96, 1-11.	2.6	43
6	An optimal control procedure for bone adaptation under mechanical stimulus. <i>Control Engineering Practice</i> , 2012, 20, 575-583.	3.2	43
7	Optimal control for SIRC epidemic outbreak. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 110, 333-342.	2.6	42
8	Optimal bone density distributions: Numerical analysis of the osteocyte spatial influence in bone remodeling. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 113, 80-91.	2.6	39
9	A Classification Algorithm for Electroencephalography Signals by Self-Induced Emotional Stimuli. <i>IEEE Transactions on Cybernetics</i> , 2016, 46, 3171-3180.	6.2	39
10	Overall design and implementation of the virtual glove. <i>Computers in Biology and Medicine</i> , 2013, 43, 1927-1940.	3.9	37
11	Optimal-tuning PID control of adaptive materials for structural efficiency. <i>Structural and Multidisciplinary Optimization</i> , 2011, 43, 43-59.	1.7	35
12	Modeling the Effects of Prevention and Early Diagnosis on HIV/AIDS Infection Diffusion. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 2119-2130.	5.9	35
13	Mobile phone emission modulates event-related desynchronization of alpha rhythms and cognitiveâ€“motor performance in healthy humans. <i>Clinical Neurophysiology</i> , 2012, 123, 121-128.	0.7	29
14	A low-cost real time virtual system for postural stability assessment at home. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 117, 322-333.	2.6	26
15	Dynamical Evolution of COVID-19 in Italy With an Evaluation of the Size of the Asymptomatic Infective Population. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1326-1332.	3.9	26
16	EEG-detected olfactory imagery to reveal covert consciousness in minimally conscious state. <i>Brain Injury</i> , 2015, 29, 1729-1735.	0.6	25
17	Evaluation of the effect of different policies in the containment of epidemic spreads for the COVID-19 case. <i>Biomedical Signal Processing and Control</i> , 2021, 65, 102325.	3.5	19
18	Classification of Emotional Signals from the DEAP dataset. , 2016, , .		19

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19	A discrete level set approach to image segmentation. Signal, Image and Video Processing, 2007, 1, 303-320.	1.7	17
20	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
21	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
22	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
23	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
24	LQ control design for the containment of the HIV/AIDS diffusion. Control Engineering Practice, 2018, 77, 162-173.	3.2	14
25	Modeling of Trabecular Architecture as Result of an Optimal Control Procedure. Lecture Notes in Computational Vision and Biomechanics, 2013, , 19-37.	0.5	13
26	Graphite Nodules Influence on DCIs Mechanical Properties: experimental and Numerical Investigation. Procedia Engineering, 2015, 109, 135-143.	1.2	12
27	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
28	Classification of ductile cast iron specimens based on image analysis and support vector machine. Procedia Structural Integrity, 2017, 3, 283-290.	0.3	11
29	Modeling and control of an epidemic disease under possible complication. , 2018, , .		7
30	Optimal Resource Allocation to Reduce an Epidemic Spread and Its Complication. Information (Switzerland), 2019, 10, 213.	1.7	7
31	Analysis, Simulation and Control of a New Measles Epidemic Model. , 2019, , .		7
32	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
33	Graphite nodules features identifications and damaging micromechanims in ductile irons. Frattura Ed Integrita Strutturale, 2013, 7, 12-21.	0.5	5
34	A new model of the HIV/AIDS infection diffusion and analysis of the intervention effects. , 2017, , .		5
35	Optimal Control to reduce the HIV/AIDS spread. , 2018, , .		5
36	A Poll Oriented Classifier for Affective Brain Computer Interfaces. , 2015, , .		5

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37	An Optimal Control Problem Formulation for a State Dependent Resource Allocation Strategy. , 2017, , .		5
38	A virtual system for postural stability assessment based on a TOF camera and a mirror. , 2015, , .		4
39	Fatigue crack propagation in Ductile Cast Irons: an Artificial Neural Networks based model. Procedia Structural Integrity, 2017, 3, 291-298.	0.3	4
40	A Brain Computer Interface by EEG Signals from Self-induced Emotions. Lecture Notes in Computational Vision and Biomechanics, 2018, , 713-721.	0.5	4
41	A Stochastic Delay Differential Model of Cerebral Autoregulation. PLoS ONE, 2015, 10, e0118456.	1.1	3
42	Self-induced emotions as alternative paradigm for driving brainâ€“computer interfaces. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 512-519.	1.3	3
43	A linear quadratic regulator for nonlinear SIRC epidemic model. , 2019, , .		3
44	Classification of ductile cast iron specimens: a machine learning approach. Frattura Ed Integrita Strutturale, 2017, 11, 231-238.	0.5	3
45	State Feedback Optimal Control with Singular Solution for a Class of Nonlinear Dynamics. , 2018, , .		3
46	Epidemic modeling and control of HIV/AIDS dynamics in populations under external interactions: A worldwide challenge. , 2020, , 197-249.		2
47	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
48	A Discrete Level Set Approach for Texture Analysis of Microscopic Liver Images. Computational Methods in Applied Sciences (Springer), 2011, , 113-123.	0.1	2
49	An Improvement in a Local Observer Design for Optimal State Feedback Control: The Case Study of HIV/AIDS Diffusion. , 2019, , .		2
50	Optimal exit strategy design for COVID-19. , 2021, , .		2
51	A Robust Eye Tracking Procedure for Medical and Industrial Applications. , 2009, , 173-185.		1
52	Integrating X-SAR images and anthropic factors for fire susceptibility assessment. , 2011, , .		1
53	An Output Feedback Control with State Estimation for the Containment of the HIV / AIDS Diffusion. , 2018, , .		1
54	Singular Solution in Optimal Control for Two Input Dynamics: the case of a SIRC Epidemic Model. , 2020, , .		1

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55	Age Based Modelling of SARS-CoV-2 Contagion: the Italian case. , 2020, , .		1
56	Modeling, Analysis and Control of COVID-19 in Italy: Study of Scenarios. , 2021, , .		1
57	Design of a Classification Strategy for Light Microscopy Images of the Human Liver. Lecture Notes in Computer Science, 2017, , 626-636.	1.0	1
58	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
59	Optimal Resource Allocation for Fast Epidemic Monitoring in Networked Populations. , 2022, , .		1
60	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
61	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
62	Optimal Control with Singular Solution for SIR Epidemic Systems. , 2018, , .		0
63	Physiological Cybernetics: Methods and Applications. Lecture Notes in Computational Vision and Biomechanics, 2019, , 131-147.	0.5	0
64	Optimal Control of Virus Spread under Different Conditions of Resources Limitations. Information (Switzerland), 2019, 10, 214.	1.7	0
65	The influence of the choice of the cost index on the effectiveness of optimal resources allocation strategies for Hepatitis B Virus treatment. , 2019, , .		0
66	Modeling and control of measles epidemic spread with immunodepressed individuals and possible complications. , 2019, , .		0
67	An optimal control approach to public investments for unemployment reduction. , 2019, , .		0
68	Data driven characterization of COVID-19. , 2020, , .		0
69	A multi-group epidemic model to represent the COVID-19 spread among regions: analysis of the Italian case. , 2021, , .		0
70	A Virtual System for Balance Control Assessment at Home. Communications in Computer and Information Science, 2017, , 12-25.	0.4	0
71	Optimal Control to Limit the Propagation Effect of a Virus Outbreak on a Network. , 2019, , .		0
72	A State Dependent Approach to Resource Allocation Strategies. Lecture Notes in Electrical Engineering, 2020, , 314-336.	0.3	0

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73	Direct Integrability for State Feedback Optimal Control with Singular Solutions. Lecture Notes in Electrical Engineering, 2020, , 482-502.	0.3	0
74	On Local Observer Design for LQR Problems with Tracking. Lecture Notes in Electrical Engineering, 2021, , 35-60.	0.3	0
75	Vaccination and Time Limited Immunization for SARS-CoV-2 Infection. , 2021, , .		0
76	Modeling, Analysis and Control of COVID-19 in Italy: Study of Scenarios. , 2021, , .		0
77	Optimal Social Limitation Reduction under Vaccination and Booster Doses. , 2022, , .		0
78	A state dependent switching optimal control as a formalization of political interventions. , 2022, , .		0