

# Luis Felipe Giraldo Trujillo

## List of Publications by Year in descending order

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36  
papers

401  
citations

933447

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839539

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g-index

36  
all docs

36  
docs citations

36  
times ranked

238  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resilient Structural Sparsity in the Design of Consensus Networks. IEEE Transactions on Cybernetics, 2023, 53, 2717-2726.	9.5	1
2	Variations of Rotating Savings and Credit Associations for Community Development. IEEE Transactions on Computational Social Systems, 2023, 10, 614-622.	4.4	0
3	Computational models of community resilience. Natural Hazards, 2022, 111, 1121-1152.	3.4	13
4	Discrete-Time Distributed Population Dynamics for Optimization and Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7112-7122.	9.3	3
5	Open-source low-cost design of a buoy for remote water quality monitoring in fish farming. PLoS ONE, 2022, 17, e0270202.	2.5	7
6	Machine learning in photovoltaic systems: A review. Renewable Energy, 2022, 196, 298-318.	8.9	39
7	Machine learning for site-adaptation and solar radiation forecasting. Renewable Energy, 2021, 167, 333-342.	8.9	86
8	Donation Networks in Underprivileged Communities. IEEE Transactions on Computational Social Systems, 2021, 8, 76-85.	4.4	4
9	Structural sparsity in control design of active and semi-active systems. Structural Control and Health Monitoring, 2021, 28, e2758.	4.0	2
10	Machine learning for manually-measured water quality prediction in fish farming. PLoS ONE, 2021, 16, e0256380.	2.5	14
11	Distributed Reconfiguration for Resilient Synchronization of Multi-Agent Systems. IEEE Access, 2021, 9, 140235-140247.	4.2	0
12	You Make Me Tremble: A First Look at Attacks Against Structural Control Systems. , 2021, , .		2
13	Data-Driven Design of a Reference Governor Using Deep Reinforcement Learning. , 2021, , .		1
14	Dynamics of a Differential Wheeled Robot: Control and Trajectory Error Bound. , 2021, , .		2
15	Kiosol: An Intelligent Distributed Energy Resources Living Laboratory. , 2021, , .		0
16	Prediction of site-specific solar diffuse horizontal irradiance from two input variables in Colombia. Heliyon, 2021, 7, e08602.	3.2	10
17	Structural Sparsity in Networked Control Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 5152-5161.	9.3	4
18	Failure signature classification in solar photovoltaic plants using RGB images and convolutional neural networks. Renewable Energy, 2020, 162, 249-256.	8.9	46

#	ARTICLE	IF	CITATIONS
19	A Multi-Critic Reinforcement Learning Method: An Application to Multi-Tank Water Systems. IEEE Access, 2020, 8, 173227-173238.	4.2	15
20	Deep Learning-Based Portable Device for Audio Distress Signal Recognition in Urban Areas. Applied Sciences (Switzerland), 2020, 10, 7448.	2.5	6
21	Solar irradiance forecasting models without on-site training measurements. Renewable Energy, 2020, 152, 557-566.	8.9	36
22	Developing a Collaborative System Dynamics Model of College Drinking Events: , 2020, , 215-240.		0
23	Distributed Formation Control of Mobile Robots Using Discrete-Time Distributed Population Dynamics. IFAC-PapersOnLine, 2020, 53, 3131-3136.	0.9	2
24	Optimization of Energy and Water Consumption on Crop Irrigation using UAVs via Path Design. , 2019, , .		6
25	Distributed MPC and Potential Game Controller for Consensus in Multiple Differential-Drive Robots. , 2019, , .		1
26	Model Predictive Control and Structural Sparsity. , 2019, , .		1
27	A System Dynamic Model of Drinking Events: Multi-€Level Ecological Approach. Systems Research and Behavioral Science, 2018, 35, 265-281.	1.6	13
28	A Clustering Approach for Domestic Smart Metering Data Preprocessing. , 2018, , .		6
29	Feedback Control Engineering for Cooperative Community Development: Tools for Financial Management Advice for Low-Income Individuals. IEEE Control Systems, 2018, 38, 87-101.	0.8	5
30	Modeling and Analysis of Group Dynamics in Alcohol-Consumption Environments. IEEE Transactions on Cybernetics, 2017, 47, 165-176.	9.5	15
31	Dynamics of Metabolism and Decision Making During Alcohol Consumption: Modeling and Analysis. IEEE Transactions on Cybernetics, 2017, 47, 3955-3966.	9.5	17
32	Structural sparsity for active control design in civil engineering. , 2017, , .		4
33	Trajectory design for efficient crop irrigation with a UAV. , 2017, , .		16
34	Dynamics of Cooperation in a Task Completion Social Dilemma. PLoS ONE, 2017, 12, e0170604.	2.5	5
35	Dynamic Task Performance, Cohesion, and Communications in Human Groups. IEEE Transactions on Cybernetics, 2016, 46, 2207-2219.	9.5	11
36	Foraging theory for dimensionality reduction of clustered data. Machine Learning, 2011, 82, 71-90.	5.4	8