Stefano Ermon

List of Publications by Year
in descending order

25 papers	3,412 citations	933447 10 h-index	1281871 11 g-index
25 all docs	25 docs citations	25 times ranked	4632 citing authors

#	ARTICLE	IF	CITATIONS
1	Using satellite imagery to understand and promote sustainable development. Science, 2021, 371, .	12.6	138
2	Scalable deep learning to identify brick kilns and aid regulatory capacity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
3	Challenges in KDD and ML for Sustainable Development. , 2021, , .		1
4	Domain Adaptation for Human Fall Detection Using WiFi Channel State Information. Studies in Computational Intelligence, 2020, , 177-181.	0.9	4
5	Efficient Object Detection in Large Images Using Deep Reinforcement Learning. , 2020, , .		59
6	Cloud Removal in Satellite Images Using Spatiotemporal Generative Networks. , 2020, , .		36
7	Farm Parcel Delineation Using Spatio-temporal Convolutional Networks. , 2020, , .		14
8	Learning When and Where to Zoom With Deep Reinforcement Learning. , 2020, , .		25
9	Using publicly available satellite imagery and deep learning to understand economic well-being in Africa. Nature Communications, 2020, 11, 2583.	12.8	158
10	Closed-loop optimization of fast-charging protocols for batteries with machine learning. Nature, 2020, 578, 397-402.	27.8	470
11	Generating Interpretable Poverty Maps using Object Detection in Satellite Images. , 2020, , .		37
12	Rapid identification of pathogenic bacteria using Raman spectroscopy and deep learning. Nature Communications, 2019, 10, 4927.	12.8	416
13	Predicting Economic Development using Geolocated Wikipedia Articles. , 2019, , .		31
14	Mapping Missing Population in Rural India. , 2019, , .		15
15	Highâ€Voltage Chargingâ€Induced Strain, Heterogeneity, and Microâ€Cracks in Secondary Particles of a Nickelâ€Rich Layered Cathode Material. Advanced Functional Materials, 2019, 29, 1900247.	14.9	219
16	Learning to Interpret Satellite Images using Wikipedia. , 2019, , .		13
17	End-to-End Learning of Motion Representation for Video Understanding. , 2018, , .		152
18	Hierarchical modeling of seed variety yields and decision making for future planting plans. Environment Systems and Decisions, 2018, 38, 458-470.	3.4	11

#	Article	IF	Citations
19	Deep Transfer Learning for Crop Yield Prediction with Remote Sensing Data. , 2018, , .		117
20	Infrastructure Quality Assessment in Africa using Satellite Imagery and Deep Learning. , 2018, , .		29
21	Adversarial Constraint Learning for Structured Prediction. , 2018, , .		3
22	Monitoring Ethiopian Wheat Fungus with Satellite Imagery and Deep Feature Learning. , 2017, , .		18
23	Coupling between oxygen redox and cation migration explains unusual electrochemistry in lithium-rich layered oxides. Nature Communications, 2017, 8, 2091.	12.8	469
24	Combining satellite imagery and machine learning to predict poverty. Science, 2016, 353, 790-794.	12.6	938
25	Unsupervised Data Mining in nanoscale X-ray Spectro-Microscopic Study of NdFeB Magnet. Scientific Reports, 2016, 6, 34406.	3.3	23