

Jordan M Malof

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

795
citations

1040056

9
h-index

1199594

12
g-index

30
all docs

30
docs citations

30
times ranked

746
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Deep learning for accelerated all-dielectric metasurface design. <i>Optics Express</i> , 2019, 27, 27523. | 3.4 | 278 |
| 2 | Automatic detection of solar photovoltaic arrays in high resolution aerial imagery. <i>Applied Energy</i> , 2016, 183, 229-240. | 10.1 | 118 |
| 3 | Distributed solar photovoltaic array location and extent dataset for remote sensing object identification. <i>Scientific Data</i> , 2016, 3, 160106. | 5.3 | 73 |
| 4 | Deep Learning the Electromagnetic Properties of Metamaterials—A Comprehensive Review. <i>Advanced Functional Materials</i> , 2021, 31, 2101748. | 14.9 | 70 |
| 5 | Neural-adjoint method for the inverse design of all-dielectric metasurfaces. <i>Optics Express</i> , 2021, 29, 7526. | 3.4 | 43 |
| 6 | A deep convolutional neural network, with pre-training, for solar photovoltaic array detection in aerial imagery. , 2017, , . | | 33 |
| 7 | Some good practices for applying convolutional neural networks to buried threat detection in Ground Penetrating Radar. , 2017, , . | | 31 |
| 8 | Inverse deep learning methods and benchmarks for artificial electromagnetic material design. <i>Nanoscale</i> , 2022, 14, 3958-3969. | 5.6 | 21 |
| 9 | The Synthinel-1 dataset: a collection of high resolution synthetic overhead imagery for building segmentation. , 2020, , . | | 20 |
| 10 | A Large-Scale Multi-Institutional Evaluation of Advanced Discrimination Algorithms for Buried Threat Detection in Ground Penetrating Radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 6929-6945. | 6.3 | 16 |
| 11 | Learning the Physics of All-dielectric Metamaterials with Deep Lorentz Neural Networks. <i>Advanced Optical Materials</i> , 2022, 10, . | 7.3 | 13 |
| 12 | On Choosing Training and Testing Data for Supervised Algorithms in Ground-Penetrating Radar Data for Buried Threat Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 497-507. | 6.3 | 12 |
| 13 | The poor generalization of deep convolutional networks to aerial imagery from new geographic locations: an empirical study with solar array detection. , 2017, , . | | 10 |
| 14 | Estimating the electricity generation capacity of solar photovoltaic arrays using only color aerial imagery. , 2017, , . | | 8 |
| 15 | Utilizing Geospatial Data for Assessing Energy Security: Mapping Small Solar Home Systems Using Unmanned Aerial Vehicles and Deep Learning. <i>ISPRS International Journal of Geo-Information</i> , 2022, 11, 222. | 2.9 | 8 |
| 16 | SIMPL: Generating Synthetic Overhead Imagery to Address Custom Zero-Shot and Few-Shot Detection Problems. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 4386-4396. | 4.9 | 7 |
| 17 | Improving the histogram of oriented gradient feature for threat detection in ground penetrating radar by implementing it as a trainable convolutional neural network. , 2018, , . | | 6 |
| 18 | Deep Convolutional Segmentation of Remote Sensing Imagery: A Simple and Efficient Alternative to Stitching Output Labels. , 2018, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Training a single multi-class convolutional segmentation network using multiple datasets with heterogeneous labels: preliminary results. , 2019, , . | | 5 |
| 20 | The poor generalization of deep convolutional networks to aerial imagery from new geographic locations: an empirical study with solar array detection. , 2017, , . | | 4 |
| 21 | GridTracer: Automatic Mapping of Power Grids Using Deep Learning and Overhead Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4956-4970. | 4.9 | 4 |
| 22 | A simple rotational equivariance loss for generic convolutional segmentation networks: preliminary results. , 2019, , . | | 3 |
| 23 | Three-dimensional features, based on beamforming at multiple depths, improves landmine detection with a forward-looking ground-penetrating radar. , 2017, , . | | 2 |
| 24 | A Probabilistic Model for Designing Multimodality Landmine Detection Systems to Improve Rates of Advance. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 5258-5270. | 6.3 | 1 |
| 25 | Trading spatial resolution for improved accuracy in remote sensing imagery: an empirical study using synthetic data. , 2017, , . | | 1 |
| 26 | On The Extraction of Training Imagery from Very Large Remote Sensing Datasets for Deep Convolutional Segmentation Networks. , 2018, , . | | 1 |
| 27 | Automated Building Energy Consumption Estimation from Aerial Imagery. , 2018, , . | | 1 |
| 28 | How much shape information is enough, or too much? Designing imaging descriptors for threat detection in ground penetrating radar data. , 2018, , . | | 1 |
| 29 | Leveraging seed dictionaries to improve dictionary learning. , 2016, , . | | 0 |
| 30 | The effect of translational variance in training and testing images on supervised buried threat detection algorithms for ground penetrating radar. , 2017, , . | | 0 |