NIKOLAOS IOANNIS BOUNTOS

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GitHub: https://github.com/ngbountos

EDUCATION

Technical University of Munich   *February 2020*
    MSc: Data Engineering and Analytics
    Thesis: Sub-pixel classification of anthropogenic features using deep learning on the Copernicus
        Sentinel-2 data

Aristotle University of Thessaloniki   *September 2016*
    BSc: Computer Science
    Thesis: Study of Causal Inference Algorithms

Publications:

- Bountos, Nikolaos Ioannis, et al. "Self-supervised contrastive learning for volcanic unrest detection." IEEE Geoscience and Remote Sensing Letters 19 (2021): 1-5.
https://ieeexplore.ieee.org/abstract/document/9517282

- Bountos, Nikolaos Ioannis, Dimitrios Michail, and Ioannis Papoutsis. "Learning from Synthetic InSAR with Vision Transformers: The case of volcanic unrest detection." IEEE Transactions on Geoscience and Remote Sensing (2022).
https://ieeexplore.ieee.org/document/9791383

- Bountos, Nikolaos Ioannis, et al. "Hephaestus: A large scale multitask dataset towards InSAR understanding." Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition. 2022.
https://arxiv.org/abs/2204.09435

- Papoutsis, Ioannis, et al "Benchmarking and scaling of deep learning models for land cover image classification." (Under review ISPRS Journal of Photogrammetry and Remote Sensing),
https://arxiv.org/pdf/2111.09451.pdf

Conferences:

- PIA19 - Photogrammetric Image Analysis 2019
Sentinel-2 sub-pixel classification enhancement using General Adversarial Network and UAV data

- EGU2020 - European Geosciences Union general assembly 2020
Sub-pixel classification of anthropogenic features using deep learning Sentinel-2 data

- Cities on Volcanoes 11
Towards a global volcanic activity alerting system based on Interferometric Synthetic Aperture Radar

WORK EXPERIENCE

Position	Institute/Company	Time Period
Beyond Fellow, Visiting Researcher	AI4EO Future Lab, TU Munich	September 2022 - December 2022
AI Researcher/PhD student	National Observatory of Athens	January 2021 - Present
Artificial Intelligence Engineer	Motius	December 2019 - April 2020
Master Thesis on Computer Vision	Esri Deutschland	April 2019 - September 2019
Working Student Data Analytics	KPIT	July 2018 - February 2019
Working Student Data Scientist	Trillr.com	October 2017 - January 2018
Web Developer	Newte	December 2016 - April 2017