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:

- Self-Supervised Contrastive Learning for Volcanic Unrest Detection, IEEE Geoscience and Remote Sensing Letters, 2021,
  https://ieeexplore.ieee.org/abstract/document/9517282

- Learning class prototypes from Synthetic InSAR with Vision Transformers. (Under review IEEE Transactions on Geoscience and Remote Sensing)
  https://arxiv.org/pdf/2201.03016.pdf

- Efficient deep learning models for land cover image classification. (Under review ISPRS Journal of Photogrammetry and Remote Sensing),
  https://arxiv.org/pdf/2111.09451.pdf

- Hephaestus: A large scale multitask dataset towards InSAR understanding, CVPR2022 workshop EARTHVISION,
  https://arxiv.org/abs/2204.09435

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
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