

CBML ICS FORTH, Heraklion, Greece

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Education

University of Patras Patras, Greece

M.Eng in Electrical and Computer Engineering

Sep. 2014 - Jun. 2019

- Graduated 3rd in my class with a grade of 8.3/10
- Thesis: "Stereo Vision of Dual View Meteosat Images" under the supervision of Prof. Athanassios Skodras

Experience

Computational BioMedicine Laboratory, ICS FORTH

Heraklion, Greece

SOFTWARE ENGINEER

Sep 2019 - Now

- · H2020 funded project InSilc in which my main responsibilities relate to the design and implementation of algorithmic approaches for the registration of IVUS images before and after stent procedure.
- · H2020 funded project SeeFar on the development and evaluation of deep learning models for the detection and the progression of retina diseases.
- Research on COVID-19 detection based on deep learning analysis methods of Xray and CT images.

Computational BioMedicine Laboratory, ICS FORTH

Heraklion, Greece Jul 2018 - Aug 2018

INTERN

- Methodological approaches for the execution of systematic literature surveys.
- Review of stereo vision algorithms and initial implementations of selected such algorithms.
- Review of Machine/Deep Learning methods and experimentation with the Tensorflow/Keras frameworks.

Skills

DevOps Docker

Back-end Django, Node.js, MySQL, MongoDB REST API

Front-end Jekyll, HTML5, jQuery, SASS

Programming Python, JAVA, C ML Frameworks Tensorflow, Keras Tools LaTeX, Linux, Git

Languages Greek, English, German

Seminars & Workshops_

Aug 2018 Drone School , Deep learning and Computer vision for drone imaging and cinematography	Icarus, CSD AUTH
Feb 2018 MedDays 2018 , Received a scholariship to attend "Mediterranean Days @ Campus SophiaTech"	Sophia Antipolis

Oct 2017 Aeroworks, Autumn School on Aerial Robotics

Jul 2016 ISP 2016, 1st Interdisciplinary Summer School on Privacy

Apr 2016 ECESCON 9, 9th ECE Students Conference

University of Patras Niimegen

TUC, Chania

Honors & Awards

Gold Award @ Healthcare Business Awards 2020, Our COVID-19 X-Ray journal article [2] won the gold CBML ICS FORTH award as the best research paper in the Healthcare Business Awards 2020

Feb 2015 Image Editor and Viewer, Best first year's python project, Introduction to Programming Course

University of Patras

Certificates

Oct 2019 Deep Learning Specialization, 2X3DAMJNRWQ4

Coursera

Major University Projects

Feb 2018 **SPCup 2018**, IEEE Signal Processing Society Cup 2018 2014-19 **IEEE Xtreme**, Participated in several IEEE Xtreme competitions and IEEE activities IEEE University of Patras

Conference Publications

[1] C. Spanakis, E. Mathioudakis, N. Kampanis, **N. Tsiknakis**, and K. Marias, "Renyi divergence and non-deterministic subsampling in rigid image registration," in *IEEE International Conference on Imaging Systems and Techniques (IST)*, Abu Dhabi, United Arab Emirates, Dec. 2019. DOI: https://doi.org/10.1109/IST48021.2019.9010237.

Journal Publications

- [1] E. Trivizakis, **N. Tsiknakis**, E. E. Vassalou, G. Z. Papadakis, D. A. Spandidos, D. Sarigiannis, A. Tsatsakis, N. Papanikolaou, A. H. Karantanas, and K. Marias, "Advancing covid-19 differentiation with a robust preprocessing and integration of multi-institutional open-repository computer tomography datasets for deep learning analysis," *Experimental and Therapeutic Medicine*, vol. 20, no. 5, 2020. DOI: https://doi.org/10.3892/etm. 2020.9210.
- [2] **N.Tsiknakis**, E. Trivizakis, E. E. Vassalou, G. Z. Papadakis, D. A. Spandidos, A. Tsatsakis, J. Sánchez-García, R. López-González, N. Papanikolaou, A. H. Karantanas, and K. Marias, "Interpretable artificial intelligence framework for covid-19 screening on chest x-rays," *Experimental and Therapeutic Medicine*, May 2020. DOI: https://doi.org/10.3892/etm.2020.8797.