

RESEARCH SOFTWARE ENGINEER · MENG EC

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 Tools Python, JAVA, C

Tensorflow, Keras

LaTeX, Linux, Git

Languages Greek, English, German

Seminars & Workshops _____

Aug 2018 brone School, Deep learning and Computer vision for drone imaging and cinematography	icarus, CSD AOTH
Feb 2018 MedDays 2018 , Received a scholariship to attend "Mediterranean Days @ Campus SophiaTech"	Sophia Antipolis
Oct 2017 Aeroworks , Autumn School on Aerial Robotics	University of Patras
Jul 2016 ISP 2016, 1st Interdisciplinary Summer School on Privacy	Nijmegen
Apr 2016 ECESCON 9, 9th ECE Students Conference	TUC, Chania

Honors & Awards

UNIVERSITY

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

University of Patras

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Certificates

Oct 2019 Deep Learning Specialization, 2X3DAMJNRWQ4

Courserd

Major University Projects _____

2014-19 **IEEE Xtreme**, Participated in several IEEE Xtreme competitions and IEEE activities

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 _

- [2] **N.Tsiknakis**, E. Trivizakis, E. E. Vassalou, G. Z. Papadakis, D. A. Spandidos, A. Tsatsakis, J. Sánchez-García, R. López-González, N. Papanikolaou, and A. H. Karantanas, "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.
- [3] 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.