

Nikos Tsiknakis

RESEARCH SOFTWARE ENGINEER · MENG ECE

CBML ICS FORTH, Heraklion, Greece

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Education

University of Patras

M.ENG IN ELECTRICAL AND COMPUTER ENGINEERING

Patras, Greece

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.

Computational BioMedicine Laboratory, ICS FORTH

Heraklion, Greece

INTERN

Jul 2018 - Aug 2018

- 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 scholarship 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

Certificates

Oct 2019 **Deep Learning Specialization**, 2X3DAMJNRWQ4

Coursera

Major University Projects

Feb 2018 **SPCup 2018**, IEEE Signal Processing Society Cup 2018

IEEE

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

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

- [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.