

Nikolaos Gkanatsios

Education

- 2011 – 2017 **National Technical University of Athens (NTUA)**, ECE, B.Sc. & M.Sc. (5-year degree), GPA 9.22/10, 9th among 328 in class, 1st in major.
- 2008 – 2011 **3rd Lyceum of New Heraklion, Attika**, General Lyceum Graduation, General Graduation Grade 19.9/20, General Panhellenic Examinations Grade 19.28/20, top 2% nationwide.

Master thesis

- title *Fine-Grained Action Recognition and Segmentation in Videos Combining Visual and Linguistic Features*
- supervisors P. Maragos, Professor ECE, NTUA
- description Experimentation with different visual and linguistic features and various fusion and classification methods to improve action recognition and segmentation on the challenging MPII Cooking Activities Dataset.

Professional Experience

- Aug 2018 – **Deeplab**, Machine Learning Engineer, Athens.
Present
 - Working on high-level semantic image representation, with application to Visual Relationship Detection, in collaboration with NTUA.
- Aug 2018 – **Computer Vision and Signal Processing Lab, NTUA**, Research Intern, Athens.
Present
 - Working on high-level semantic image representation, with application to Visual Relationship Detection, in collaboration with Deeplab.
 - Working on Action Classification in videos, based on prior work in my Master Thesis.
- Mar 2017 – **METIS Cybertechnology S.A.**, Artificial Intelligence Engineer, Athens.
Jul 2018
 - Designed and developed the whole [Natural Language Processing pipeline](#) behind [METIS's groundbreaking maritime chatbot](#).
 - Developed several applications and APIs for METIS's products.
- 2013 – 2018 **Private Tutor**, Athens.
Courses I have taught include:
 - Maths (to high-school students)
 - Physics (to high-school students)
 - Programming (to undergraduate students of ECE)
 - Artificial Intelligence and Natural Language Processing (to postgraduate students of Data Science and Computer Science Schools)

Publications

- 2019 Deeply Supervised Multimodal Attentional Translation Embeddings for Visual Relationship Detection. *Submitted to ICIP 2019*. [Code](#)
- 2018 Metis: A Scalable Natural-Language-Based Intelligent Personal Assistant for Maritime Services. *In Proceedings of the 24th International Conference on Information and Software Technologies (ICIST 2018)*.

Talks

- October 2018 ICIST 2018, Vilnius, Lithuania: oral presentation of the paper "Metis: A Scalable Natural-Language-Based Intelligent Personal Assistant for Maritime Services".
- June 2018 VOXXEDDAYS Athens: [A Scalable Maritime Platform Providing Services Through an NLP-Based Intelligent Personal Assistant](#)

Honors and Awards

- 2018 Georgios Kontaxis Award for being the 1st in 2017 class in Electronics and Systems major, ECE NTUA.
- 2018 Christos Chalkias Award for being the 1st in 2017 class in Electronics and Systems major, ECE NTUA.
- 2017 EESTECH Challenge Athens 1st Prize for winning the Machine Learning Hackathon, hold by EESTEC Athens and ECE NTUA.
- 2012 Hellenic Physical Society Award for making the top 10 in the final round of the Panhellenic Physics Competition for high-school students on a nationwide level.
- 2010 – 2011 Awards from Hellenic Police for excellence in high-school classes.
- 2006 – 2011 High-school awards for excellence in high-school and pre-high-school classes.
- 2006 – 2011 High-school awards for being the 1st in class.

Other Projects

I have run multiple projects in Intelligent Systems, Robotics and Electronics. Some of them can be viewed in my personal webpage <https://nickgkan.github.io>.

Areas of Interests

Computer Vision, Machine Learning, Natural Language Processing, Pattern Recognition

Programming

(Experienced) Python, Matlab / (Basic) C, Javascript (NodeJS), SQL / Keras, Tensorflow, PyTorch

Languages

Greek (Native)
English (Michigan Certificate of Proficiency in English)
French (Delf B1)

Personal

Basketball, drumming (self-taught), bass guitar (self-taught), ancient Greek literature, music transcription (mostly drums), Greek traditional dancing.