VaiosPapaspyros

PhDc in Machine Learning & Robotics @ EPFL

General Information

Nationality: Greek
Birthday: 28/04/1994

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Web & Git

Personal Website
Twitter
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Github
Bitbucket

OS Preference

Linux ★★★★★
Windows ★★★★☆
MacOS ★★☆☆☆

Languages

Greek ★★★★★
English ★★★★☆
French ★★☆☆☆

Experience

06/18 - *Now* **Doctoral Assistant** — EPFL, Lausanne, Switzerland

Team: Mobots @ Laboratoire de Systèmes Robotiques (LSRO).
Research Topic: Self-Adaptive Mixed Societies of Animals and Robots.
Supervisors: Frank Bonnet, Francesco Mondada.
Funding: Swiss National Science Formation (SNF).

03/18 - 05/18 **Research Intern** — EPFL, Lausanne, Switzerland

Team: Mobots @ Laboratoire de Systèmes Robotiques (LSRO).
Research Topic: Self-Adaptive Mixed Societies of Animals and Robots.
Supervisors: Frank Bonnet, Francesco Mondada.

11/17 - 02/18 **Robotics Software Engineer** — Myrmex Inc., Ilioupoli, Greece

06/17 - 11/17 **Research Engineer** — MEAD, Univ. of Patras, Patras, Greece

Team: EuroSWARM team @ Applied Mechanics Lab.
Research Topic: Unmanned Heterogeneous Swarm of Sensor Platforms.
Funding: European Defense Agency (EDA) “EuroSWARM” Project.

05/16 - 10/16 **Research Intern** — Inria Nancy Grand-Est, Nancy, France

Team: LARSEN/Resibots.
Internship Title: Intelligent Trial & Error with the iCub humanoid robot.
Research Topic: Robot damage recovery with safety constraints.
Supervisor: Jean-Baptiste Mouret.
Funding: European Research Council (ERC) “ResiBots” Project.

Education

06/18 - *Now* **Doctor of Philosophy - PhD Candidate** — EPFL, Lausanne, Switzerland
Robotics, Control, and Intelligent Systems.

09/12 - 11/17 **M.Eng in Computer Engineering & Science** — Univ. of Patras, Patras, Greece
GPA: 7.35 / 10
Diploma Thesis Subject: Safety-Aware Intelligent Trial-and-Error for Robot Damage Recovery.
Grade: 10/10.
Supervisors: Ioannis Hatzilygeroudis, Jean-Baptiste Mouret.
Related Publications: “Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors”.

09/10 - 06/12 **High School** — Costeas-Geitonas School, Athens, Greece
GPA: 19.2 / 20

Publications

• Peer-Reviewed Workshops

Dec 2016 **Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors**, V. Papaspyros, K. Chatzilygeroudis, V. Vassiliades, J.B. Mouret. BayesOpt

Proceedings of the International Workshop on "Bayesian Optimization" at NIPS 2016 | **Supplementary Video**.

• Posters

May 2018 **Self-Adaptive Mixed Societies of Animals and Robots**, V. Papaspyros, F. Bonnet, F. Mondada. SwissZebra 2018

Awarded 3rd prize for best poster.

Reviewer

BayesOpt International workshop on bayesian optimization of the Neural Information Processing Systems (NIPS) Conference. 2017

Programming Assignments & Experience

AI, Machine Learning, & Robotics
Interested in advancing in this field
• PhDc & Research intern at EPFL - Self-Adaptive Mixed Societies of Animals and Robots.
• Research intern at Inria - Intelligent Trial & Error with the iCub humanoid robot.

C/C++
Co-author to robot_dart
robot_dart is a flexible and generic C++11 wrapper for DART and is suitable for evolutionary computation.

C/C++
Contributor to limbo
limbo is a highly templated C++11 Bayesian optimization framework.

C/C++
Experienced with: Boost, LEDA, OpenMP, CUDA, OpenCL, OpenGL, data structures, posix threads, TCP/IP protocols.

Python
Experienced with: matplotlib, numpy and the waf build system.
Multiple assignments using python for data analysis or algorithmic design (e.g. Aho-Corasick).

Matlab/Octave
Plenty of experience with data analysis using Matlab.
University assignments for: Scientific Computation, Digital Telecomunications (quantizer, huffman code, PCM, FSK, PSK implementations) courses. Also, assignments for the online course "Machine Learning" (Coursera).

Honors & Awards

05/2018 **SwissZebra Conference**
3rd prize for best poster.

Competitions

10/2015 **IEEExtreme9.0** IEEE
Team *"Tokyooo"* | Ranked top 25% worldwide.

Certifications

English Language Cambridge
Proficiency Level (C2)

French Language International Centre for French Studies
DELF (B2)

European Computer Driving Licence (ECDL) ECDL Foundation

International Certificate in IT Skills Cambridge

Programming skills

Advanced **C/C++(11), Python, Boost, Eigen, Robot Operating System (ROS), Matlab/Octave, LaTeX, bash scripting, Object Oriented Design & Programming, Policy-based design**

Intermediate **OpenMP, CUDA, OpenGL, Java, MySQL & Sqlite, HTML 5, CSS, PHP, Javascript**

Language skills

Greek **Native**

English **Fluent - Full Professional working proficiency**

French **Moderate - Limited working proficiency**

Interests

- Machine Learning
- Programming
- Basketball
- Artificial Intelligence
- Robotics
- Music/Guitar

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