Vaios Papaspyros - Curriculum Vitae

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Date of Birth28th April 1994Githubhttps://github.com/bpapaspyrosNationalityGreekBitbuckethttps://bitbucket.org/bpapaspyros

Experience

Mar 2018 - École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

Present Research Intern

Research Topic: Self-Adaptive Mixed Societies of Animals and Robots.

Supervisors: Frank Bonnet, Francesco Mondada.

Nov 2017 - Myrmex Inc., Ilioupoli, Greece Feb 2018 Robotics Software Engineer

Jun 2017 - Applied Mechanics Lab, Mechanical Eng. & Aeronautics Dept., University of Patras, Greece

Nov 2017 Research Engineer

Research Topic: Unmanned Heterogeneous Swarm of Sensor Platforms. **Funding**: European Defense Agency (EDA) "EuroSWARM" Project.

May 2016 - Inria Nancy Grand-Est, LARSEN/Resibots Team, Nancy, France

Oct 2016 Research intern

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.

Related Publications: "Safety-Aware Robot Damage Recovery Using Constrained Bayesian Op-

timization and Simulated Priors".

Education

Sep 2012 - Computer Engineering & Informatics Department, University of Patras, Greece

Sep 2017 Diploma/MEng | *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.

Costeas-Gitonas School, Athens, Greece

Jul 2012 High School

Publications

PEER-REVIEWED WORKSHOPS

Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors, Vaios Papaspyros, Konstantinos Chatzilygeroudis, Vassilis Vassiliades, Jean-Baptiste Mouret, BayesOpt 2016: Proceedings of the International Workshop on "Bayesian Optimization" at NIPS 2016 | Supplementary Video.

Reviews

NIPS Workshop BayesOpt 2017

Reviewer for the BayesOpt 2017 Workshop of the Neural Information Processing Systems (NIPS) Conference.

Activities

Oct 2012 - ROBOTICS CLUB (POLYMECHANON TEAM), University of Patras, Greece

Feb 2014 Member

2013 - Online Courses

Present Coursera, MIT Open Courseware, Stanford Center for Professional Development

I have attended over 10 courses covering a wide range of topics such as Machine Learning, Software Engineering, Android Development, Parallel Programming, Linear Algebra, Computer Architecture, Data Structures, Digital Signal Processing, etc.

Programming Assignments & Experience

Languages & APIs

■ C/C++ -

- **Co-author to robot_dart**, a policy based, highly templated C++11 generic robotics simulator ideal for evolutionary computation.
- Contributor to limbo, a highly templated C++11 Bayesian optimization framework.
- University assignments requiring extensive use of: *Boost*, *LEDA*, *OpenMP*, *CUDA*, *OpenCL*, *OpenGL*, data structures, posix threads, TCP/IP.
- **Python** Implementations including the Aho-Corasick algorithm and genetic programming problems. Plenty of experience with *matplotlib*, *numpy* and the *waf* build system.
- **Java/Android** University assignments including swing and **JavaFX** development. Android applications including micro controller communication.
- **SQL & JDBC** University assignments combining SQL database design & implementation as well as GUI support through JavaFX and *JDBC* (for SQL database handling).
- Matlab/Octave University assignments for the Scientific Computation and Digital Telecomunications (quantizer, huffman code, PCM, FSK, PSK implementations) courses. Furthermore, assignments for the online course Machine Learning (Coursera).
- HTML/CSS/PHP/Javascript Simple mailing list manager (with a simple interface) using the campaign monitor php API. Furthermore, courrier-like complete system.

MACHINE LEARNING & ROBOTICS

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

Competitions

■ IEEExtreme9.0 (Oct 2015) Team "Tokyooo" | Ranked top 25% worldwide.

Skills

ADVANCED: C/C++(11), Python, Boost, Eigen, Robot Operating System (ROS), Matlab/Octave, ETeX,

bash scripting, Object Oriented Design & Programming, Policy-based design

INTERMEDIATE: OpenMP, CUDA, OpenGL, Java, MySQL & Sqlite, HTML 5, CSS, PHP, Javascript

Certificates

- English Proficiency Level (C2), Cambridge Certificate
- French DELF (B2), International Centre for French Studies
- European Computer Driving Licence (ECDL)
- International Certificate in IT Skills

Languages

Greek: Native

ENGLISH: Fluent - Professional working proficiency

French: Limited working proficiency

Interests

■ Machine Learning ■ Artificial Intelligence

ProgrammingBasketballRoboticsMusic/Guitar