Ioannis **Partalas**

RESEARCHER IN DATA SCIENCE

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Working Experience

Viseo group, R&D departement   *Grenoble, France*

RESEARCHER IN DATA SCIENCE   *Oct. 2014 - now*

- *Large scale machine learning systems*, Viseo Smart Data project (VSD). Conception and development of scalable linear classification systems for high-dimensional problems (for example text classification). Technologies and tools: Python, Spark
- *Machine learning (ML) for Natural Language Processing tasks*, SMILK ANR project. Proposed and developed ML models (CRF and Learning-to-Search) for solving NLP tasks. Technologies and tools: CRF++ and Vowpal Wabbit.
- *Predictive modeling and anomaly/outlier detection*, VSD project, client: Wyres SAS (indoor location technologies). We proposed and developed statistical learning models for anomaly detection from sensor data. Technologies and tools: Python, Apache Storm
- *Influence detection in social networks*, SOMA project (Eurostars). I lead a team of engineers and researchers for the conception and development of influence detection systems in social networks. Technologies and tools: Weka, symbolic linguistic analysis, Elastic Search, Apache Storm.
- Supervision
  — Moufida Adjout (Phd student), *Distributed Ensemble Methods in the MapReduce Framework*, 2014-2016.
  — Simon Moura (Internship - 2nd year of master), *Sparsification for Large-Scale Classification*, 2015.

Université Joseph Fourier, Laboratoire d'Informatique de Grenoble, AMA team   *Grenoble, France*

POST-DOC RESEARCHER   *Oct. 2011 - Sept. 2014*

- Worked in the ANR project Class-Y and in the BioASQ FP7 project on the development of Large Scale Hierarchical Classification systems. I worked mainly with textual data such as bio-medical articles. I co-organized the Large Scale Hierarchical Text Classification Challenge.

Delphis group   *Thessaloniki, Greece*

FREELANCE SOFTWARE DEVELOPER   *July 2011 - Sept. 2011*

- Conception and development of predictive models for real-time event recognition. Technologies and tools: Java and PostgreSQL.

Department of Engineering Informatics and Telecommunications, University of Western Macedonia   *Kozani, Greece*

ADJUNCT LECTURER   *Oct 2010 - Mar 2011*

- Winter Semester 2010-2011, Course: Neural Networks.

Skills

Machine Learning libraries	Python data stack (Pandas, Numpy, Scikit-learn), Weka, Vowpal Wabbit, XGboost
NLP tools	nltk, word2vec, CRF++
Distributed computing	Apache Spark, Gnu parallel
Visualization	Plotly, Matplotlib, Gnuplot
Information retrieval libraries	Terrier, Elastic Search
Programming languages	Python, C/C++, Java, Bash
Operating systems	Linux, Unix, Windows
Version control systems	Git, Apache subversion

Languages   English (excellent), French (excellent), Greek (mother-tongue)

Education

Aristotle University of Thessaloniki   *Thessaloniki, Greece*

PHD IN INFORMATICS   *2009*

Machine Learning

Aristotle University of Thessaloniki, Greece   *Thessaloniki, Greece*

MSC IN INFORMATION SYSTEMS   *2006*

Professional Activities

- IBD4Health Summer School, Archamps, *Machine Learning and Data Science for Health: A case study on obesity*, July 3 2016 (to come)
- AMA team, University of Grenoble Alpes, Title: *Do you like shopping? Product classification for e-Commerce*, 2016
- Grenoble Meetup Data Science group, Title: *Product classification for e-Commerce platforms*, January 27, 2016
- Laboratory Hubert Curien, University of Saint-Etienne Jean Monnet, Title: *Adaptive Learning Methods*, 2014
- ERIC Laboratoire (Université de Lyon). Invited seminar. Title: *Ensemble Pruning*, 2012

Data Science Competitions

- Regularly I participate in data science competitions, my Kaggle profile: `https://www.kaggle.com/ioannispartalas`.
- Recently, I was ranked 10/175 teams in the Cdiscount competition about e-Commerce item categorization (slides in SlideShare).

Distinctions

2008	**3rd place**, Innovative Business Plan Award at the competition "Innovative Ideas in Central Macedonia 2008" organized by Thessaloniki Technology Park Management & Development Corporation S.A in the framework of the Regional Innovation Pole of Central Macedonia Project	*Thessaloniki, Greece*
1998	**2nd place**, Scholarship from the Greek Foundation of State Scholarships for my entrance with the 2nd best score in the Department of Engineering of the Technological and Educational Institute of Kozani	*Kozani, Greece*

Publications

I have published over 40 scientific papers in major conferences and journals. For a complete list: `http://ipartalas.fr/publications.php` or `http://dblp.uni-trier.de/pers/hd/p/Partalas:Ioannis`

Selected Publications

- *Learning Taxonomy Adaptation in Large-scale Classification*, Journal of Machine Learning Research (to appear), 2016
- *Efficient Model Selection for Regularized Classification by Exploiting Unlabeled Data* , IDA 2015
- *Re-ranking Approach to Classification in Large-scale Power-law Distributed Category Systems*, SIGIR, 2014
- *On Flat versus Hierarchical Classification in Large-Scale Taxonomies* , NIPS, 2013
- *An ensemble uncertainty aware measure for directed hill climbing ensemble pruning*, Machine Learning, 2010

Interests

- Greek traditional dances and music. Dance teacher in the association "Orphée" of Grenoble.
- Running, playing soccer and basketball
- Reading books (literature, science fiction, popularized science, social issues, finance, politics)
- Traveling
- Management board member of the cultural association "Orphée" of Grenoble (2014-now)