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Konstantinos Skianis

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Areas

Natural Language Processing, Machine Learning, Deep Learning, Data Science

EDUCATION

École Polytechnique, Palaiseau, France

Ph.D. Candidate, October 2015 - February 2019

- Topic: "Novel Representations, Regularization and Distances for Text Classification"
- Advisor: Prof. Michalis Vazirgiannis & Prof. Guillaume Wisniewski
- Member of DaSciM team

École Normale Superieure Paris-Saclay, Paris, France

M.Sc., Math, Computer Vision and Machine Learning (MVA) 2014-2015 Specialization: Graph & Text Mining

Athens University of Economics and Business, Athens, Greece

B.Sc., Computer Science, May 2013

Specialization: Data Mining & Web Crawling

Professional Experience

Research Engineer, École Polytechnique & Airbus Data Mining, Machine Learning, Data Visualization

September, 2013 - September, 2014

Intern, École Polytechnique Web-crawling, Text Mining

Summer 2013

Honors and Awards

École Polytechnique Jeune Post-doc Fellowship, March-May 2019

Awarded a 3-month post-doc research grant

École Polytechnique Ph.D. Fellowship, 2015

Awarded the Ph.D. research grant for 2015-2018

State award for school excellence

Awarded for excellent performance in school

Publications

- 1. Rep the Set: Neural Networks for Learning Set Representations
 - K. Skianis, G. Nikolentzos, S.Limnios, M. Vazirgiannis arXiv 2019
- 2. Evaluation of Greek Word Embeddings

S.Outsios, C. Karatsalos, K. Skianis, M. Vazirgiannis arXiv 2019

3. Word Embeddings from Large-scale Greek Web Content

S.Outsios, K. Skianis, P. Meladianos, C. Xypolopoulos, M. Vazirgiannis arXiv 2018

4. Orthogonal Matching Pursuit for Text Classification

K. Skianis, N. Tziortziotis, M. Vazirgianis

WNUT, EMNLP 2018, Brussels, Belgium (Workshop)

5. GraKel: Graph Kernels in Python

G. Nikolentzos, I. Siglidis, S. Limnios, C. Giatsidis, K. Skianis, M. Vazirgianis **arXiv 2018** (Software)

6. Fusing Document, Collection and Label Graph-based Representations with Word Embeddings for Text Classification (Best Paper Award)

K. Skianis, F. Malliaros, M. Vazirgiannis

TextGraphs, NAACL 2018, New Orleans, USA (Workshop)

7. Kernel Graph Convolutional Neural Networks

G. Nikolentzos, P. Meladianos, A. J.-P. Tixier, K. Skianis, M. Vazirgiannis **ICANN 2018**, *Rhodes*, *Greece* (Full)

8. Data Management for the World Wealth & Income Database

K. Skianis, M. Vazirgiannis, L. Chancel, T. Piketty et. al.

ParisBD 2017, Paris, France (Poster)

9. SpreadViz: Analytics and Visualization of Spreading Processes in Social Networks

K. Skianis, MEG. Rossi, F. D. Malliaros, M. Vazirgiannis ICDM 2016, Barcelona, Spain (Demo)

10. Regularizing Text Categorization with Clusters of Words

K. Skianis, F. Rousseau, M. Vazirgiannis **EMNLP 2016**, Austin, USA (Full)

11. GoWvis: a web application for Graph-of-Words-based text visualization and summarization A. J.-P. Tixier, K. Skianis, M. Vazirgiannis ACL 2016, Berlin, Germany (Demo)

12. Graph-Based Term Weighting for Text Categorization

F. Malliaros, K. Skianis

Someris, ASONAM 2015, Paris, France (Workshop)

Reviews

- 2019: NAACL, LLD @ICLR
- 2018: NIPS, WWW, EMNLP, ECML-PKDD
- 2017: AAAI, LLD @NIPS, EMNLP
- 2016: AAAI, WSDM, IC²S²

Competitions

2nd place, Fintech Crowdhackathon

April 2016

Our team (RSK project) is the 2nd winner in the Fintech Crowdhackathon organized by the National Bank of Greece. We made a platform to detect fraud e-transactions based on Deep Learning.

2nd place, DREEM challenge (inclass Kaggle)

January 2015

DREEM introduces a way to increase the duration and quality of deep sleep.

6th place, Data Mining Cup

July 2013

Our team from the Department of Computer Science (AUEB) was placed 6th among the world's top universities in the DMC 2013 competition, that was held in Berlin, Germany.

TECHNICAL SKILLS

Coding | Python, Java, C++ SQL, Matlab, D3js, LATEX Tools | Keras, Tensorflow, PyTorch, Spark, Hadoop

Additional Information Languages | Greek - Native

English - Fluent(Proficiency) German - Very good(Zertifikat)

French - Good