



Nikolas Zygouras

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WORK EXPERIENCE

- 2016 – 2019 **Research Associate & Software Developer**
VaVeL, EU, Horizon 2020 Project
- Working on the analysis of spatiotemporal data and the development and in the system implementation.
- 2013 – 2015 **Research Associate & Software Developer**
INSIGHT, EU, ICT Project
- Working on the development of a traffic management system that detects traffic anomalies from heterogeneous and voluminous urban real-time streaming data.

EDUCATION

- 2014 – present **Ph.D. Candidate in Computer Science**
Dept. of Informatics & Telecom
- Area: “Analysis Of Spatiotemporal Data”
- 2011 – 2012 **Msc Artificial Intelligence**
University of Edinburgh
- 2005 – 2010 **Diploma in Computer Engineering and Informatics**
University of Patras

Publications

- 2019 **HTTE: A Hybrid Technique For Travel Time Estimation In Sparse Data Environmentss @ 27th ACM SIGSPATIAL.**
N. Zygouras, N. Panagiotou, Y. Li, D. Gunopulos, L. Guibas
- 2018 **REMI: A framework of reusable elements for mining heterogeneous data with missing information @ Journal of Intelligent Information Systems.**
A. Gal, D. Gunopulos, N. Panagiotou, N. Rivetti, A. Senderovich, N. Zygouras
Corridor Learning Using Individual Trajectories @ 19th IEEE MDM.
N. Zygouras, D. Gunopulos
Evaluating the Health State of Urban Areas using Multi-source Heterogeneous Data @ 19th IEEE WoWMoM.
D. Tomaras, V. Kalogeraki, N. Zygouras, N. Panagiotou, D. Gunopulos
- 2017 **Discovering Corridors From GPS Trajectories @ 25th ACM SIGSPATIAL.**
N. Zygouras, D. Gunopulos
An efficient technique for event location identification using multiple sources of urban data @ LocalRec/SIGSPATIAL.
D. Tomaras, V. Kalogeraki, N. Zygouras, D. Gunopulos

- 2016 **Intelligent Urban Data Monitoring for Smart Cities @ ECML/PKDD.**
 N. Panagiotou, N. Zygouras, I. Katakis, D. Gunopulos, N. Zacheilas, I. Boutsis, V. Kalogeraki, S. Lynch, B. O'Brien
Dynamic Load Balancing Techniques for Distributed Complex Event Processing Systems @ DAIS.
 N. Zacheilas, N. Zygouras, N. Panagiotou, V. Kalogeraki, D. Gunopulos
INSIGHT: Dynamic Traffic Management Using Heterogeneous Urban Data @ ECML/PKDD.
 N. Panagiotou, N. Zygouras, I. Katakis, D. Gunopulos et al.
An Active Learning Framework Incorporating User Input For Mining Urban Data @ UrbComp.
 N. Zygouras, N. Panagiotou, N. Zacheilas, I. Boutsis, V. Kalogeraki, D. Gunopulos
- 2015 **Elastic complex event processing exploiting prediction Elastic complex event processing exploiting prediction @ Big Data.**
 N. Zacheilas, V. Kalogeraki, N. Zygouras, N. Panagiotou, D. Gunopulos
Insights on a Scalable and Dynamic Traffic Management System @ EDBT.
 N. Zygouras, N. Zacheilas, V. Kalogeraki, D. Kinane, D. Gunopulos
Towards Detection of Faulty Traffic Sensors in Real-Time @ MUD/ICML.
 N. Zygouras, N. Panagiotou, N. Zacheilas, I. Boutsis, V. Kalogeraki, I. Katakis, D. Gunopulos
- 2014 **Intelligent Synthesis and Real-time Response using Massive Streaming of Heterogeneous Data (INSIGHT) and its anticipated effect on Intelligent Transport Systems (ITS) in Dublin City, Ireland @ ITS EU Congress.**
 D. Kinane, F. Schnitzler, S. Mannor, T. Liebig, K. Morik, J. Marecek, B. Gorman, N. Zygouras, I. Katakis, V. Kalogeraki, D. Gunopulos
- 2013 **First Aid Manual in an Android Environment @ ICIMTH.**
 • P. Theodoromanolakis, N. Zygouras, J. Mantas

Technical skills

- Programming Languages**
- Python, Java, C/C++
 - HTML, PHP
- Mathematical Frameworks**
- Matlab/Octave, R
- Machine Learning Tools**
- Keras, Scikit-Learn, Pandas
 - Gaussian Processes, Netlab, Weka
- Databases**
- mySQL, SQLite, MongoDB
- Technologies worked with**
- Docker, Storm, Esper

Personal skills

- Languages Known**
- Greek : Read, Write, Speak
 - English : Read, Write, Speak

Other

- Teaching Assistant**
- Design of Databases
 - Software Development for Algorithmic Problems
 - Computational Geometry
 - Data Mining
 - Data Analytics

References Available upon request