Panayiotis Smeros

Curriculum Vitae

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Department of Informatics and Telecommunications
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Personal Information

Birth   24 September 1989

Nationality   Greek

Education

2011-2014   **M.Sc student in Advanced Information Systems.** Department of Informatics and Telecommunications, National and Kapodistrian University of Athens.
GPA: *8.76/10*
Master Thesis: *Discovering Spatial and Temporal Links among RDF Data.*
Supervisor: *Professor Manolis Koubarakis*

2007-2011   **B.Sc student in Computer Systems and Applications.** Department of Informatics and Telecommunications, National and Kapodistrian University of Athens.
GPA: *8.36/10*
Bachelor Thesis: *Storing RDF data and evaluating SPARQL queries using MapReduce.*
Supervisor: *Professor Manolis Koubarakis*

Publications

Conference Papers

P. Smeros and M. Koubarakis. Discovering Spatial and Temporal Links among RDF data. Unpublished paper, to appear.

2014

M. Koubarakis, **P. Smeros**, C. Nikolaou, G. Garbis, K. Bereta, S. Giannakopoulou, K. Dogani, M. Karpathiotaki, I. Vlachopoulos, D. Savva, G. Stamoulis, K. Kyzirakos, S. Manegold, B. Valentin, H. Bach, F. Niggemann, P. Klug, W. Angermair and S. Burgstaller. Linked Open Data in the Earth Observation Domain: the Vision of Project LEO. In the Proceedings of the 2014 Conference on Big Data from Space (BIDS 2014). ESA-ESRIN, Frascati, Italy. 12-14 November, 2014.

C. Nikolaou, K. Kyzirakos, K. Bereta, K. Dogani, S. Giannakopoulou, **P. Smeros**, G. Garbis, M. Koubarakis, D. E. Molina, O. C. Dumitru, G. Schwarz and M. Datcu. Improving knowledge discovery from synthetic aperture radar images using the linked open data cloud and Sextant. In the Informal Proceedings of the Image Information Mining Conference: The Sentinels Era (ESA-EUSC-JRC 2014). Bucharest, Romania. 5-7 March, 2014.

M. Koubarakis, K. Kyzirakos, C. Nikolaou, G. Garbis, K. Bereta, **P. Smeros**, S. Gianakopoulou, K. Dogani, M. Karpathiotaki and I. Vlachopoulos. Linked Earth Observation Data: The Projects TELEIOS and LEO. In the Linking Geospatial Data Conference (LGD 2014). London, United Kingdom. 5-6 March 2014.

2013

K. Bereta, **P. Smeros** and M. Koubarakis. Representing and Querying the valid time of triples for Linked Geospatial Data. In the 10th Extended Semantic Web Conference (ESWC 2013). Montpellier, France. 26-30 May, 2013.

M. Koubarakis, C. Kontoes, S. Manegold, M. Karpathiotakis, K. Kyzirakos, K. Bereta, G. Garbis, C. Nikolaou, D. Michail, I. Papoutsis, T. Herekakis, M. Ivanova, Y. Zhang, H. Pirk, M. Kersten, K. Dogani, S. Giannakopoulou and **P. Smeros**. Real-Time Wildfire Monitoring Using Scientific Database and Linked Data Technologies. In the 16th International Conference on Extending Database Technology (EDBT 2013). Genoa, Italy. 18-22 March, 2013.

Workshop Papers

2013

I. Horrocks, T. Hubauer, E. Jiménez-Ruiz, E. Kharlamov, M. Koubarakis, R. Möller, K. Bereta, C. Neuenstadt, Ö. Özçep, M. Roshchin, **P. Smeros**, and D. Zheleznyakov. Addressing Streaming and Historical Data in OBDA Systems: Optique's Approach (Statement of Interest). In Knowledge Discovery and Data Mining Meets Linked Open Data Workshop (Know@LOD 2013). Montpellier, France. 26-30 May, 2013.

Tutorials

2015

K. Kyzirakos, M. Koubarakis, **P. Smeros** and D. Savva. Tutorial on Publishing and Interlinking Linked Geospatial Data. 12th Extended Semantic Web Conference (ESWC 2015). Portoroz, Slovenia. 31 May - 4 June, 2015.

Demos & Posters

2014

M. Koubarakis, C. Nikolaou, G. Garbis, K. Bereta, **P. Smeros**, S. Gianakopoulou, K. Dogani, M. Karpathiotaki, I. Vlachopoulos, D. Savva, K. Kyzirakos, S. Manegold, B. Valentin, N. James, H. Bach, F. Niggemann, P. Klug, W. Angermair, and S. Burgstaller. Linked Open Data in the Earth Observation Domain: the Vision of Project LEO. In the 8th International Conference on Web Reasoning and Rule Systems (RR 2014). Athens, Greece. 15-17 September, 2014.

C. Nikolaou, K. Kyzirakos, K. Bereta, K. Dogani, S. Giannakopoulou, **P. Smeros**, G. Garbis, M. Koubarakis, D. E. Molina, O. C. Dumitru, G. Schwarz, and M. Datcu. Big, Linked and Open Data: Applications in the German Aerospace Center. In the 11th Extended Semantic Web Conference (ESWC 2014). Crete, Greece. 25-29 May, 2014.

2013

K. Kyzirakos, M. Karpathiotakis, K. Bereta, G. Garbis, C. Nikolaou, **P. Smeros**, S. Giannakopoulou, K. Dogani, and M. Koubarakis. The Spatiotemporal RDF Store Strabon. In the 13th International Symposium on Spatial and Temporal Databases (SSTD 2013). Munich, Germany. 21-23 August, 2013.

Experience

Research Experience

2013-Now **Visitor.** Database Architectures Group, Centrum Wiskunde & Informatica (CWI), 2013. Agile Knowledge Engineering and Semantic Web (AKSW) Group, University of Leipzig, 2015.

Organizer. LinkedGeo2015.

External Reviewer. ISWC2014, ESWC2014, JWS2013 and ESWC2013.

Volunteer. RR2014, RW2014 and EDF2014.

Attendee. ESWC2015, BIDS2014, RR2014, RW2014, HDMS2014, GEPW2014, EDF2014, IOAC2013 and ESWC2013.

Teaching Experience

2011-Now **Tutorial Assistant.** Department of Informatics and Telecommunications, National and Kapodistrian University of Athens. Undergraduate Courses **Artificial Intelligence I** and **Artificial Intelligence II** and Postgraduate Course **Knowledge Technologies**.

Developing Experience

2014-Now **Member of Development Team.** Link Discovery Framework **Silk**.

2012-Now **Member of Development Team.** Semantic SpatioTemporal RDF store **Strabon**.

Job Experience

2012-Now **Research Assistant, Scientific Programmer and System Moderator.** Department of Informatics and Telecommunications, National and Kapodistrian University of Athens. European FP7 projects "**LEO: Linked Open Earth Observation Data for Precision Farming**", "**MELODIES: Maximizing the Exploitation of Linked Open Data In Enterprise and Science**" and "**TELEIOS: Virtual Observatory Infrastructure for Earth Observation Data**". Technical Reports:

- **P. Smeros** and M. Koubarakis. Formalisms and algorithms for interlinking Earth Observation data. Deliverable D3.1, 2014, European FP7 project **LEO**.

- M. Koubarakis, I. Vlachopoulos, K. Kyzirakos, **P. Smeros**, D. Savva, G. Stamoulis, M. Karpathiotaki, R. Dogani, S. Giannakopoulou, S. Manegold, B. Valentin, W. Angermair and S. Burgstaller. The LEO tool infrastructure and its use-v1. Deliverable D1.2.1, 2014, European FP7 project **LEO**.

- K. Kyzirakos, S. Manegold, I. Vlachopoulos, D. Savva, M. Koubarakis, C. Nikolaou, S. Giannakopoulou, **P. Smeros** and B. Valentin. Data models and languages for mapping EO data to RDF. Deliverable D2.1, 2014, European FP7 project **LEO**.

- M. Koubarakis, I. Vlachopoulos, K. Bereta, K. Dogani, G. Garbis, S. Giannakopoulou, M. Karpathiotaki, C. Nikolaou, **P. Smeros**, K. Kyzirakos, S. Manegold, B. Valentin and N. James. The life cycle of open EO data. Deliverable D1.1, 2014, European FP7 project **LEO**.

- K. Bereta, K. Dogani, G. Garbis, S. Giannakopoulou, M. Koubarakis, K. Kyzirakos, C. Nikolaou, M. Sioutis and **P. Smeros**. An implementation of a temporal and spatial extension of RDF and SPARQL on top of MonetDB - phase II. Deliverable D4.2, 2013, European FP7 project **TELEIOS**.

Languages

Greek Native

English	Professional working proficiency

Skills

Databases	PostgreSQL, PostGIS, MySQL, MonetDB, Datalog
Programming Languages	Java, Scala, C/C++, Python, Bash/Awk/Sed, Prolog, Assembly MIPS
Other Libraries	MapReduce, CUDA, MPI, OpenGL, JXTA
Software Management	Mercurial/GitHub/Subversion, Apache Maven, Scala sbt, Debian Packaging
Semantic Web	RDF, SPARQL/stSPARQL/GeoSPARQL, R2RML, OWL, XML, Sesame, Strabon, Protege, D2RQ, Silk
Web Services	Tomcat/Jetty Server, Drupal, Joomla, HTML, CSS, PHP, JSP, JavaScript/jQuery, Ajax, cURL
Office Tools	LaTeX, LibreOffice, MS Office
Operating Systems	Linux (Ubuntu, CentOS), Sun Solaris, MS Windows, Apple Mac OS

Interests

Scientific

- Databases
- Link Discovery
- Cloud Computing
- Artificial Intelligence
- Semantic Web

Other

- Naively playing guitar.
- Attending theatre, cinema, live music performances.
- Swimming and going to gym.
- Going for night walks in Athens.
- Participating in running and cycling contests.