

# Panayiotis Smeros

## Curriculum Vitae

Office I1  
Department of Informatics and Telecommunications  
National and Kapodistrian University of Athens  
University Campus, Ilissia, GR-15784, Athens, Greece  
☎ +30.6939.173.433  
☎ +30.210.727.5159  
FAX +30.210.727.5214  
✉ psmeros@di.uoa.gr  
🌐 users.uoa.gr/~psmeros



### 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 Unpublished paper, to appear.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. Giannakopoulou, 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.

### Demos & Posters

2014

M. Koubarakis, C. Nikolaou, G. Garbis, K. Bereta, **P. Smeros**, S. Giannakopoulou, 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.

---

### Presentations

2015

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

2013

**P. Smeros.** Discovering Spatial and Temporal Links among RDF data. Thursday Think Tank. CWI, Amsterdam. 19 December 2013.

---

## Experience

### 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**.

### 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.  
**Subreviewer.** ISWC2014, ESWC2014, JWS2013 and ESWC2013.  
**Volunteer.** RR2014, RW2014 and EDF2014.  
**Attendee.** ESWC2015, BIDS2014, RR2014, RW2014, HDMS2014, GEPW2014, EDF2014, IOAC2013 and ESWC2013.

### 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	Fluent (Advanced Level Certificate, University of Michigan)

---

## 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	L <sup>A</sup> T <sub>E</sub> X, LibreOffice, MS Office
Operating	
Systems	Linux (Ubuntu, CentOS), Sun Solaris, MS Windows, Apple Mac OS

---

## Interests

### Scientific

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

### Other

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