

# Michael Sioutis

## Curriculum Vitae

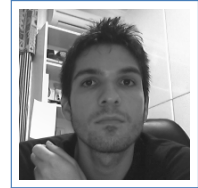
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“Μανθάνων μὴ κάμνε”

## Personal Information

Father's Name Ioannis  
Date of Birth September 15, 1986  
Place of Birth Wickede, Germany  
Nationality Hellenic  
Status Single

## Education

2013-present **Doctor of Computer Science**, *University of Artois, Center of Research in Computer Science of Lens, France.*

Area of study *Qualitative Spatio-Temporal Reasoning*

Advisors Prof. Bertrand Mazure, Prof. Jean-François Condotta, Asst. Prof. Yakoub Salhi

2009-2012 **Master of Advanced Information Systems**, *National and Kapodistrian University of Athens, Department of Informatics and Telecommunications, Greece.*

- Major in Artificial Intelligence, overall GPA: 8.3/10.0.

— MASTER THESIS

title *Consistency of Chordal Spatial Qualitative Constraint Networks*

Supervisor Prof. Manolis Koubarakis

2004-2009 **Bachelor of Informatics and Telecommunications**, *National and Kapodistrian University of Athens, Department of Informatics and Telecommunications, Greece.*

- Major in Information Systems, overall GPA: 7.8/10.0.

— UNDERGRADUATE THESIS

title *Weighted Constraint Satisfaction Problems*

Supervisor Asst. Prof. Panagiotis Stamatopoulos

2001-2004 **Lyceum Apolytirion**, *2nd Unified Lyceum of Paleo Faliro, Athens, Greece.*

- Information Science and Service Course, overall GPA: 19.2/20.0.

## Fields of Interest

- Artificial Intelligence
- Data Mining
- Linux System Engineering
- Logic Programming
- Semantic Web

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## Experience

- 2013-present **Doctoral Researcher**, *Software Development and Research*, University of Artois, Center of Research in Computer Science of Lens, France.  
- Pursuing a PhD in the area of Artificial Intelligence from 1<sup>st</sup> October 2013.
- 2015-2016 **Visiting Research Student**, *Software Development and Research*, University of Technology Sydney, Centre for Quantum Computation & Intelligent Systems, Australia.  
- Was offered an honorary appointment as a Visiting Research Student at the University of Technology Sydney under the supervision of Prof. Sanjiang Li from 2<sup>nd</sup> December 2015 to 6<sup>th</sup> January 2016.
- 2012-2013 **Research and Linux Systems Engineer**, *Linux System Administration, Software Development, Research, and NOC administration*, Pierre & Marie Curie University, Computer Science Laboratory of Paris 6, France.  
- Served as a system administrator for PlanetLab Europe (<http://www.planet-lab.eu/>) and as a research engineer for the European funded FP7 project Fed4FIRE (<http://fed4fire.eu/>) from 1<sup>st</sup> October 2012 to 30<sup>th</sup> September 2013.
- 2010-2012 **Research Assistant**, *Software Development, Research, and Website Administration*, National and Kapodistrian University of Athens, Department of Informatics and Telecommunications, Greece.  
- Served as a research assistant for the European funded FP7 project TELEIOS (<http://www.earthobservatory.eu/>) from 1<sup>st</sup> September 2010 to 30<sup>th</sup> September 2012.

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## Teaching Assistantship

- 2015–2016 **Databases and Network Security Courses**, *University Institute of Technology of Lens, Department of Lifelong Learning*, France.  
- Led undergraduate courses on Databases (<http://www.cril.fr/~sioutis/DB/>) and Network Security (<http://www.cril.fr/~sioutis/ITSecurity/>).
- 2015–2016 **Introduction to Databases Lab**, *University Institute of Technology of Lens, Department of Computer Science*, France.  
- Provided assistance to undergraduate students on SQL programming for the Introduction to Databases course.
- 2013–2014 **Databases and Network Security Courses**, *University Institute of Technology of Lens, Department of Lifelong Learning*, France.  
- Led undergraduate courses on Databases (<http://www.cril.fr/~sioutis/DB/>) and Network Security (<http://www.cril.fr/~sioutis/ITSecurity/>).
- 2011–2012 **Python Tutorial**, *National and Kapodistrian University of Athens, Department of Informatics and Telecommunications*, Greece.  
- Introduced Python as the language of choice for the Artificial Intelligence course and provided lectures and assistance to undergraduate students on Python programming in the context of this course (<http://cgi.di.uoa.gr/~ys02>).
- 2009–2012 **Artificial Intelligence Tutorial**, *National and Kapodistrian University of Athens, Department of Informatics and Telecommunications*, Greece.  
- Provided lectures and assistance to undergraduate students on constraint programming techniques for the Artificial Intelligence course (<http://cgi.di.uoa.gr/~ys02>).
- 2009–2010 **Introduction to Programming Lab**, *National and Kapodistrian University of Athens, Department of Informatics and Telecommunications*, Greece.  
- Provided assistance to undergraduate students on procedural programming techniques for the Introduction to Programming course (<http://cgi.di.uoa.gr/~ip/>).

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## Computer Skills

### Operating Systems

Unix-like Linux, BSD Unix, Mac OS, Solaris

Other Microsoft® Windows

### Programming Languages

Imperative C

Multiparadigm Python, C++, Java, Logo, Perl

Logic Prolog

Query SQL, SPARQL

Scripting Bourne shell, Bash, JavaScript

Web HTML

Ontology RDF Schema, OWL

### Tools/Libraries

Constraint ECLiPSe, python-constraint

Administration Nagios, Cacti, Apache HTTP Server, Apache Tomcat, phpMyAdmin

Database PostgreSQL+PostGIS, MySQL, MonetDB, SQLite

VCS Mercurial, Subversion, Git

Virtualization VirtualBox, Linux-VServer, KVM

Productivity T<sub>E</sub>X, L<sub>A</sub>T<sub>E</sub>X, Microsoft Office, OpenOffice, LibreOffice

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## Languages

Greek **Superior** *Native Language*

English **Proficient** *Certificate of Proficiency in English (University of Cambridge), Dec 2001*  
*Certificate of Proficiency in English (University of Michigan), Mar 2002*

German **Intermediate** *Zentrale Mittelstufenprüfung (Goethe Institute), Jun 2003*

French **Elementary**

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## Selected Publications

### Journal Papers

Artificial Intelligence **M. Sioutis**, Y. Salhi, and J.-F. Condotta: *Studying the Use and Effect of Graph Decomposition in Qualitative Spatial and Temporal Reasoning*. KER, 2016. **(In press.)**

Artificial Intelligence **M. Sioutis**, J.-F. Condotta, and M. Koubarakis: *An Efficient Approach for Tackling Large Real World Qualitative Spatial Networks*. IJAIT, 2015.

Artificial Intelligence **M. Sioutis**: *Consistency of Chordal Spatial Qualitative Constraint Networks*, NKUA-DIT Selected Graduate and Undergraduate Theses, 2013.

### Conference Papers

Artificial Intelligence **M. Sioutis**, Z. Long, and S. Li: *Efficiently Reasoning about Qualitative Constraints through Variable Elimination*. In SETN 2016, Thessaloniki, Greece. 🏆 **Best paper award!**

Artificial Intelligence Z. Long, **M. Sioutis**, and S. Li: *Efficient Path Consistency Algorithm for Large Qualitative Constraint Networks*. In IJCAI 2016, New York City, USA.

- Artificial Intelligence J.-F. Condotta, I. Nouaouri, and **M. Sioutis**: *A SAT Approach for Maximizing Satisfiability in Qualitative Spatial and Temporal Constraint Networks*. In KR 2016, Cape Town, South Africa.
- Artificial Intelligence J. H. Lee, S. Li, Z. Long, and **M. Sioutis**: *On Redundancy in Simple Temporal Networks*. In ECAI 2016, The Hague, Holland.
- Artificial Intelligence J.-F. Condotta, A. Mensi, I. Nouaouri, **M. Sioutis**, and L. B. Said: *Local Search for Maximizing Satisfiability in Qualitative Spatial and Temporal Constraint Networks*. In AIMSA 2016, Varna, Bulgaria.
- Artificial Intelligence **M. Sioutis**, S. Li, and J.-F. Condotta: *Efficiently Characterizing Non-Redundant Constraints in Large Real World Qualitative Spatial Networks*. In IJCAI 2015, Buenos Aires, Argentina.
- Artificial Intelligence **M. Sioutis**, Y. Salhi, and J.-F. Condotta: *On the Use and Effect of Graph Decomposition in Qualitative Spatial and Temporal Reasoning*. In SAC 2015, Salamanca, Spain.
- Artificial Intelligence **M. Sioutis**, Y. Salhi, and J.-F. Condotta: *A Simple Decomposition Scheme for Large Real World Qualitative Constraint Networks*. In FLAIRS 2015, Hollywood, Florida, USA.
- Automated Reasoning **M. Sioutis**, J.-F. Condotta, Y. Salhi, and B. Mazure: *Generalized Qualitative Spatio-Temporal Reasoning: Complexity and Tableau Method*. In TABLEAUX 2015, Wroclaw, Poland.
- Artificial Intelligence **M. Sioutis**, J.-F. Condotta, Y. Salhi, B. Mazure, and D. A. Randell: *Ordering Spatio-Temporal Sequences to meet Transition Constraints: Complexity & Framework*. In AIAI 2015, Bayonne/Biarritz, France.
- Artificial Intelligence Y. Salhi, and **M. Sioutis**: *A Resolution Method for Modal Logic S5*. In GCAI 2015, Tbilisi, Georgia.
- Artificial Intelligence J.-F. Condotta, A. Mensi, I. Nouaouri, **M. Sioutis**, and L. B. Said: *A Practical Approach for Maximizing Satisfiability in Qualitative Spatial and Temporal Constraint Networks*. In ICTAI 2015, Vietri sul Mare, Italy.
- Artificial Intelligence **M. Sioutis**: *Triangulation versus Graph Partitioning for Tackling Large Real World Qualitative Spatial Networks*, In ICTAI 2014, Limassol, Cyprus.
- Artificial Intelligence **M. Sioutis**, and J.-F. Condotta: *Tackling Large Qualitative Spatial Networks of Scale-Free-Like Structure*, In SETN 2014, Ioannina, Greece.
- Artificial Intelligence **M. Sioutis**, and J.-F. Condotta: *Vertex Incremental Path Consistency for Qualitative Constraint Networks*, In SETN 2014, Ioannina, Greece.
- Artificial Intelligence **M. Sioutis**, and J.-F. Condotta: *Incrementally Building Partially Path Consistent Qualitative Constraint Networks*, In AIMSA 2014, Varna, Bulgaria.
- Artificial Intelligence **M. Sioutis**, J.-F. Condotta, Y. Salhi, and B. Mazure: *A Qualitative Spatio-Temporal Framework Based On Point Algebra*, In AIMSA 2014, Varna, Bulgaria.
- Knowledge Management P. Liakos, K. Papakonstantinopoulou, and **M. Sioutis**: *Pushing the Envelope in Graph Compression*, In CIKM 2014, Shanghai, China.
- Information Retrieval P. Liakos, K. Papakonstantinopoulou, and **M. Sioutis**: *On the Effect of Locality in Compressing Social Networks*, In ECIR 2014, Amsterdam, Netherlands.
- Artificial Intelligence N. Amaneddine, J.-F. Condotta, and **M. Sioutis**: *Efficient Approach to Solve the Minimal Labeling Problem of Temporal and Spatial Qualitative Constraints*, In IJCAI 2013, Beijing, China.

- Internet Science W. Vandenberghe, B. Vermeulen, P. Demeester, A. Willner, S. Papavassiliou, A. Gavras, **M. Sioutis**, A. Quereilhac, Y. Al-Hazmi, F. Lobillo, F. Schreiner, C. Velayos, A. Vico-Oton, G. Androuridakis, C. Papagianni, O. Ntofon, and M. Boniface: *Architecture for the Heterogeneous Federation of Future Internet Experimentation Facilities*, In FutureNetworkSummit 2013, Lisbon, Portugal.
- Artificial Intelligence **M. Sioutis**, and M. Koubarakis: *Consistency of Chordal RCC-8 Networks*, In ICTAI 2012, Athens, Greece.
- Databases M. Koubarakis, **M. Sioutis**, K. Kyzirakos, M. Karpathiotakis, C. Nikolaou, S. Vassos, G. Garbis, K. Bereta, C. O. Dumitru, D. Espinoza-Molina, K. Molch, G. Schwarz, and M. Datcu: *Building Virtual Earth Observatories using Ontologies, Linked Geospatial Data, and Knowledge Discovery Algorithms*. In OTM - ODBASE 2012, Rome, Italy.
- Image Information Mining M. Koubarakis, **M. Sioutis**, K. Kyzirakos, M. Karpathiotakis, C. Nikolaou, S. Vassos, G. Garbis, K. Bereta, M. Datcu, G. Schwarz, C. O. Dumitru, D. Espinoza-Molina, and K. Molch: *Building Virtual Earth Observatories using Ontologies, Linked Geospatial Data, and Knowledge Discovery Algorithms*. In ESA-EUSC-JRC 2012, Oberpfaffenhofen, Germany.
- Artificial Intelligence M. Koubarakis, M. Karpathiotakis, K. Kyzirakos, C. Nikolaou, and **M. Sioutis**: *Data Models and Query Languages for Linked Geospatial Data*. In Reasoning Web 2012, Vienna, Austria.
- Artificial Intelligence M. Koubarakis, M. Karpathiotakis, K. Kyzirakos, C. Nikolaou, S. Vassos, G. Garbis, **M. Sioutis**, K. Bereta, D. Michail, C. Kontoes, I. Papoutsis, T. Herekakis, S. Manegold, M. Kersten, M. Ivanova, H. Pirk, Y. Zhang, M. Datcu, G. Schwarz, C. O. Dumitru, D. Espinoza-Molina, K. Molch, U. D. Giammatteo, M. Sagona, S. Perelli, E. Klien, T. Reitz, and R. Gregor: *Building Virtual Earth Observatories using Ontologies and Linked Geospatial Data*. In RR 2012, Vienna, Austria.
- Image Information Mining M. Koubarakis, K. Kyzirakos, M. Karpathiotakis, C. Nikolaou, S. Vassos, G. Garbis, **M. Sioutis**, K. Bereta, C. Kontoes, I. Papoutsis, T. Herekakis, D. Michail, S. Manegold, M. Kersten, M. Ivanova, H. Pirk, Y. Zhang, M. Datcu, G. Schwarz, C. O. Dumitru, D. Espinoza-Molina, K. Molch, U. D. Giammatteo, M. Sagona, S. Perelli, T. Reitz, E. Klien, and R. Gregor: *Building Remote Sensing Applications Using Scientific Database and Semantic Web Technologies*. In ESA-EUSC-JRC 2012, Oberpfaffenhofen, Germany.
- Engineering C. Kontoes, I. Keramitsoglou, I. Papoutsis, T. Herekakis, D. Michail, P. Xofis, M. Koubarakis, K. Kyzirakos, M. Karpathiotakis, C. Nikolaou, **M. Sioutis**, G. Garbis, S. Vassos, S. Manegold, M. Kersten, H. Pirk, and M. Ivanova: *Operational Wild-fire Monitoring and Disaster Management Support Using State-of-the-art EO and Information Technologies*, In EORSA 2012, Shanghai, China.

### Workshop Papers

- Network Analysis P. Liakos, K. Papakonstantinopoulou, **M. Sioutis**, K. Tsakalozos, and A. Delis: *Pinpointing Influence in Pinterest*. In SocInf@IJCAI 2016, New York City, USA.
- Semantic Web **M. Sioutis**, S. Li, and J.-F. Condotta: *On Redundancy in Linked Geospatial Data*. In LDQ@ESWC 2015, Portorož, Slovenia.
- Artificial Intelligence **M. Sioutis**, J.-F. Condotta, Y. Salhi, and B. Mazure: *The Implication Of Patchwork And Compactness In Qualitative Spatio-Temporal Reasoning*. In STeDy@IJCAI 2015, Buenos Aires, Argentina.

Artificial Intelligence **M. Sioutis**, J.-F. Condotta, Y. Salhi, and B. Mazure: *A Tableau Method For Generalized Qualitative Spatio-Temporal Reasoning*. In STeDy@IJCAI 2015, Buenos Aires, Argentina.

Artificial Intelligence **M. Sioutis**, J.-F. Condotta, Y. Salhi, B. Mazure, and D. A. Randell: *On Ordering Spatio-Temporal Sequences To Meet Transition Constraints*. In STeDy@IJCAI 2015, Buenos Aires, Argentina.

Artificial Intelligence M. Koubarakis, K. Kyzirakos, M. Karpathiotakis, C. Nikolaou, **M. Sioutis**, S. Vassos, D. Michail, T. Herekakis, C. Kontoes, and I. Papoutsis: *Challenges for Qualitative Spatial Reasoning in Linked Geospatial Data*. In BASR@IJCAI 2011, Barcelona, Spain.

### Demo Papers

Semantic Web K. Kyzirakos, M. Karpathiotakis, G. Garbis, C. Nikolaou, K. Bereta, **M. Sioutis**, I. Papoutsis, T. Herekakis, D. Michail, M. Koubarakis, and C. Kontoes: *Real Time Fire Monitoring Using Semantic Web and Linked Data Technologies*. In ISWC 2012, Boston, USA.

Databases M. Koubarakis, K. Kyzirakos, M. Karpathiotakis, C. Nikolaou, S. Vassos, G. Garbis, **M. Sioutis**, K. Bereta, D. Michail, C. Kontoes, I. Papoutsis, T. Herekakis, S. Manegold, M. Kersten, M. Ivanova, H. Pirk, Y. Zhang, M. Datcu, G. Schwarz, C. O. Dumitru, D. Espinoza-Molina, K. Molch, U. D. Giammatteo, M. Sagona, S. Perelli, T. Reitz, E. Klien, and R. Gregor: *TELEIOS: A Database-Powered Virtual Earth Observatory*. In VLDB 2012, Constantinople, Turkey.

### Posters

Data Mining P. Liakos, K. Papakonstantinou, **M. Sioutis**: *SiVaC: An Efficient Graph Compression Algorithm*. In WSDM Data Challenge 2013, Rome, Italy. 🏆 **Winning team!**

Geoscience C. Kontoes, I. Papoutsis, D. Michail, T. Herekakis, M. Koubarakis, K. Kyzirakos, M. Karpathiotakis, C. Nikolaou, **M. Sioutis**, G. Garbis, S. Vassos, I. Keramitsoglou, M. Kersten, S. Manegold, and H. Pirk: *Wildfire monitoring via the integration of remote sensing with innovative information technologies*. In EGU General Assembly 2012, Vienna, Austria.

### Theses

Artificial Intelligence **M. Sioutis**: *Consistency of Chordal Spatial Qualitative Constraint Networks*, NKUA Grey Literature Digital Library, 2012.

Artificial Intelligence **M. Sioutis**: *Weighted Constraint Satisfaction Problems*, NKUA Library of School of Science, 2009.

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## Scientific Activities

2010–Present **Member of the Greek Python User Group (PUG).**

<http://python.org.gr/>

2015 **Local Organizer of the Advanced Course on AI (ACAI) school.**

<http://www.cril.univ-artois.fr/acai15/>

2012–2013 **Member of the Laboratory of Information, Network and Communication Sciences (LINCS).**

<http://www.lincs.fr/>

2013 **Local Arrangements Chair of the 1<sup>st</sup> International Workshop on Internet Science and Web Science Synergies.**

<https://sites.google.com/site/inetwebsci13/>

2010–2012 **Member of the Management of Data and Information Knowledge Group (MADgIK).**

<http://www.madgik.di.uoa.gr/>

2012 **Session Chair of the 24<sup>th</sup> IEEE International Conference on Tools with Artificial Intelligence (ICTAI).**

<http://ictai12.unipi.gr/>

## **Hobbies**

- Travelling
- Reading
- Programming
- Research