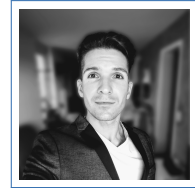


Michael Sioutis

Curriculum Vitae

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“Μαθητῶν μὴ κάμνε”

Personal Information

Date of Birth September 15, 1986
Place of Birth Wickede, Germany
Nationality Hellenic

Education

- 2013-2017 **PhD in Computer Science**, *University of Artois, Center of Research in Computer Science of Lens, France.*
— PHD THESIS
title *Algorithmic Contributions to Qualitative Constraint-based Spatial and Temporal Reasoning*
Advisors Prof. Bertrand Mazure, Prof. Jean-François Condotta, Asst. Prof. Yakoub Salhi
- 2009-2012 **MSc in 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.
— MSc THESIS
title *Consistency of Chordal Spatial Qualitative Constraint Networks*
Supervisor Prof. Manolis Koubarakis
- 2004-2009 **BSc in 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.
— BSc 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

Experience

- 2020-present **Research Fellow**, *Education and Research*, University of Bamberg, Faculty of Information Systems and Applied Computer Sciences, Germany.
- Serving as a full-time Lecturer and Researcher in the area of Knowledge Representation & Reasoning, and Artificial Intelligence in general, since 15th January 2020.

- 2019-2020 **Postdoctoral Researcher**, *Software Development and Research*, Aalto University, Department of Computer Science, Finland.
- Served as a Postdoctoral Researcher in the areas of Constraint-Based Optimization and Machine Learning from 2nd January 2019 to 1st January 2020.
- 2017-2018 **Postdoctoral Researcher**, *Software Development and Research*, Örebro University, Department of Science and Technology, Sweden.
- Served as a Postdoctoral Researcher in the area of Knowledge Representation & Reasoning for the European funded H2020 project MoveCare (<http://www.movecare-project.eu/>) from 1st May 2017 to 31st December 2018.
- 2016-2017 **Attaché Temporaire d'Enseignement et de Recherche (ATER)**, *Education and Research*, University Institute of Technology of Lens, Department of Computer Science, France.
- Served as a full-time Lecturer and Researcher in the area of Computer Science from 1st October 2016 to 30th April 2017.
- 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 2nd December 2015 to 6th January 2016.
- 2013-2016 **Doctoral Researcher**, *Software Development and Research*, University of Artois, Center of Research in Computer Science of Lens, France.
- Pursued a PhD in the area of Artificial Intelligence from 1st October 2013 to 30th September 2016; I successfully defended my thesis on 27th February 2017.
- 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 1st October 2012 to 30th September 2013.
- 2010-2012 **Research Assistant**, *Software Development and Research*, 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 1st September 2010 to 30th September 2012.

Teaching Assistantship

- 2020-2021 **Algorithms and Data Structures Tutorials**, *University of Bamberg, Faculty of Information Systems and Applied Computer Sciences*, Germany.
- Organized tutorials and assignments for undergraduate students on the Algorithms and Data Structures course.
- 2020-2021 **Knowledge Representation and Reasoning Course**, *University of Bamberg, Faculty of Information Systems and Applied Computer Sciences*, Germany.
- Organized lectures, tutorials, and assignments for postgraduate students on the Knowledge Representation and Reasoning course.
- 2019-2020 **Algorithms and Data Structures Tutorials**, *University of Bamberg, Faculty of Information Systems and Applied Computer Sciences*, Germany.
- Organized tutorials and assignments for undergraduate students on the Algorithms and Data Structures course.
- 2017-2018 **Software Engineering Lab**, *Örebro University, Department of Science and Technology*, Sweden.
- Provided assistance to undergraduate students on programming for the Software Engineering course.
- 2016-2017 **Databases Course**, *University Institute of Technology of Lens, Department of Lifelong Learning*, France.
- Led undergraduate courses on Databases (<http://www.cril.fr/~sioutis/DB/>).
- 2016-2017 **Object Oriented Programming Lab**, *University Institute of Technology of Lens, Department of Computer Science*, France.
- Provided assistance to undergraduate students on object oriented programming for the Object Oriented Programming course.

- 2016–2017 **Data Structures and Fundamental Algorithms Lab**, *University Institute of Technology of Lens, Department of Computer Science, France.*
 - Provided assistance to undergraduate students on programming with data structures for the Data Structures and Fundamental Algorithms course.
- 2016–2017 **Algorithms and Programming Lab**, *University Institute of Technology of Lens, Department of Computer Science, France.*
 - Provided assistance to undergraduate students on algorithmic programming for the Algorithms and Programming course.
- 2016–2017 **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.
- 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 for the Artificial Intelligence course (<http://cgi.di.uoa.gr/~ys02>) and provided lectures and assistance to undergraduate students on Python programming.
- 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/>).

Computer Skills

Operating Systems

Unix-like Linux, BSD Unix, Solaris

Programming Languages

Imperative C

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

Logic Prolog

Query SQL, SPARQL

Scripting Bourne shell, Bash, JavaScript

Ontology RDF Schema, OWL

Software

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

DBMS PostgreSQL+PostGIS, MySQL, MonetDB, SQLite, MariaDB

VCS Mercurial, Subversion, Git

Productivity T_EX, L^AT_EX, LibreOffice

Foreign Languages

English	Proficient	<i>Certificate of Proficiency in English (University of Cambridge), Dec 2001</i> <i>Certificate of Proficiency in English (University of Michigan), Mar 2002</i>
German	Intermediate	<i>Zentrale Mittelstufenprüfung (Goethe Institute), Jun 2003</i>
French	Elementary	
Spanish	Elementary	

Publications (650+ citations, h-index \geq 16, i10-index \geq 17)

Journal Papers

- Artificial Intelligence J. Wehner, **M. Sioutis**, and D. Wolter: *On Robust Vs Fast Solving of Qualitative Constraints*. **Under review.**
- Artificial Intelligence Z. Long, **M. Sioutis**, H. Meng, and H.-C. Li: *Approximating Region Boundaries Based on Qualitative and Quantitative Information*. **Under review.**
- Artificial Intelligence Z. Long, H. Meng, T. Li, H.-C. Li, and **M. Sioutis**: *A Framework for Belief Revision Under Restrictions*. **Under review.**
- Artificial Intelligence **M. Sioutis**, and D. Wolter: *Dynamic Branching in Qualitative Constraint-based Reasoning via Counting Local Models*. *Inf. Comput.* 281:104787, 2021.
- Artificial Intelligence **M. Sioutis**, A. Paparrizou, and T. Janhunen: *On Neighbourhood Singleton-style Consistencies for Qualitative Spatial and Temporal Reasoning*. *Inf. Comput.*, 280:104638, 2021.
- Artificial Intelligence **M. Sioutis**: *Just-In-Time Constraint-Based Inference for Qualitative Spatial and Temporal Reasoning*. *Künstliche Intell.*, 34(2):259–270, 2020.
- Artificial Intelligence Z. Long, H. Meng, and **M. Sioutis**: *Semi-Supervised Dimensionality Reduction by Linear Compression and Stretching*. *IEEE Access*, 8:27308–27317, 2020.
- Artificial Intelligence **M. Sioutis**, A. Paparrizou, and J.-F. Condotta: *Collective Singleton-based Consistency for Qualitative Constraint Networks: Theory & Practice*. *Theor. Comput. Sci.*, 797:17–41, 2019.
- Artificial Intelligence M. Alirezaie, M. Längkvist, **M. Sioutis**, and A. Loutfi: *Semantic Referee: A Neural-Symbolic Framework for Enhancing Geospatial Semantic Segmentation*. *Semantic Web*, 10(5):863–880, 2019.
- Artificial Intelligence **M. Sioutis**, Z. Long, and S. Li: *Leveraging Variable Elimination for Efficiently Reasoning about Qualitative Constraints*. *Int. J. Artif. Intell. Tools*, 27(4):1860001, 2018.
- Artificial Intelligence S. Kong, S. Li, and **M. Sioutis**: *Exploring Directional Path-Consistency for Solving Constraint Networks*. *Comput. J.*, 61(9):1338–1350, 2018.
- Artificial Intelligence **M. Sioutis**, Y. Salhi, and J.-F. Condotta: *Studying the Use and Effect of Graph Decomposition in Qualitative Spatial and Temporal Reasoning*. *Knowl. Eng. Rev.* 32:e4, 2017.
- Artificial Intelligence **M. Sioutis**, J.-F. Condotta, and M. Koubarakis: *An Efficient Approach for Tackling Large Real World Qualitative Spatial Networks*. *Int. J. Artif. Intell. Tools* 25(2):1–33, 2016.
- Artificial Intelligence **M. Sioutis**: *Consistency of Chordal Spatial Qualitative Constraint Networks*. *NKUA-DIT Selected Graduate and Undergraduate Theses*, 10:135–147, 2013.

Conference Papers

- Artificial Intelligence **M. Sioutis**, and D. Wolter: *Qualitative Spatial and Temporal Reasoning: Current Status and Future Challenges*. In *IJCAI 2021*, Montreal, Canada.
- Artificial Intelligence **M. Sioutis**, and H. Meng: *Towards Robust Qualitative Spatio-Temporal Reasoning for Hybrid AI Systems*. In *ISKE 2021*, Chengdu, China.
- Artificial Intelligence J. Wehner, **M. Sioutis**, and D. Wolter: *On Robust Vs Fast Solving of Qualitative Constraints*. In *ICTAI 2021*, Virtually.
- Artificial Intelligence Q. Hu, Y. Gao, Z. Long, H. Wang, T. Li, and **M. Sioutis**: *On Large-Scale Qualitative Spatio-Temporal Constraint Redundancy Removal*. In *ISKE 2021*, Chengdu, China. 🏆 **Best student paper!**

- Artificial Intelligence **M. Sioutis**, Z. Long, and T. Janhunen: *On Robustness in Qualitative Constraint Networks*. In IJCAI 2020, Yokohama, Japan.
- Artificial Intelligence **M. Sioutis**, and D. Wolter: *Dynamic Branching in Qualitative Constraint Networks via Counting Local Models*. In TIME 2020, Bolzano, Italy.
- Artificial Intelligence **M. Sioutis**, A. Paparrizou, and T. Janhunen: *On the Utility of Neighbourhood Singleton-style Consistencies for Qualitative Constraint-based Spatial and Temporal Reasoning*. In TIME 2019, Málaga, Spain.
- Artificial Intelligence **M. Sioutis**, and T. Janhunen: *Towards Leveraging Backdoors in Qualitative Constraint Networks*. In KI 2019, Kassel, Germany.
- Artificial Intelligence T. Janhunen, and **M. Sioutis**: *Allen's Interval Algebra Makes the Difference*. In INAP 2019, Cottbus, Germany.
- Artificial Intelligence G. Glorian, J. M. Lagniez, V. Montmirail, and **M. Sioutis**: *Une approche SAT incrémentale pour raisonner efficacement sur les réseaux de contraintes qualitatives*. In JFPC 2019, Albi, France.
- Artificial Intelligence G. Glorian, J. M. Lagniez, V. Montmirail, and **M. Sioutis**: *An Incremental SAT-based Approach to Reason Efficiently on Qualitative Constraint Networks*. In CP 2018, Lille, France.
- Artificial Intelligence A. Mensi, J.-F. Condotta, I. Nouaouri, **M. Sioutis**, and L. B. Said: *A Hybrid Evolutionary Algorithm for Maximizing Satisfiability in Temporal or Spatial Qualitative Constraints*. In SETN 2018, Patras, Greece.
- Artificial Intelligence **M. Sioutis**, and J.-F. Condotta: *Efficiently Enforcing Path Consistency on Qualitative Constraint Networks by Use of Abstraction*. In IJCAI 2017, Melbourne, Australia.
- Artificial Intelligence **M. Sioutis**, A. Paparrizou, and J.-F. Condotta: *Collective Singleton-based Consistency for Qualitative Constraint Networks*. In TIME 2017, Mons, Belgium.
- Artificial Intelligence **M. Sioutis**, A. Paparrizou, and J.-F. Condotta: *A Lazy Algorithm to Efficiently Approximate Singleton Path Consistency for Qualitative Constraint Networks*. In ICTAI 2017, Boston, USA.
- Artificial Intelligence **M. Sioutis**, Z. Long, and S. Li: *Efficiently Reasoning about Qualitative Constraints through Variable Elimination*. In SETN 2016, Thessaloniki, Greece. 🏆 **Best paper!**
- 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 AIMS 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 Conference 2015, 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.
- Automated Reasoning **M. Sioutis**, J.-F. Condotta, Y. Salhi, and B. Mazure: *Generalized Qualitative Spatio-Temporal Reasoning: Complexity & Tableau Method*. In IAF 2015, Rennes, France.

- 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.
- Knowledge Management P. Liakos, K. Papakonstantinou, and **M. Sioutis**: *Pushing the Envelope in Graph Compression*, In HDMS 2015, Athens, Greece.
- 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. Papakonstantinou, and **M. Sioutis**: *Pushing the Envelope in Graph Compression*, In CIKM 2014, Shanghai, China.
- Information Retrieval P. Liakos, K. Papakonstantinou, 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. Androulidakis, 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 Wildfire Monitoring and Disaster Management Support Using SoA EO and Information Technologies*, In EORSA 2012, Shanghai, China.
- ### Workshop Papers
- Artificial Intelligence J. Wehner, **M. Sioutis**, and D. Wolter: *Robust Vs Fast Solving of Qualitative Constraints: Can we do Both?*. In QR@IJCAI 2021, Montreal, Canada.
- Artificial Intelligence T. Schwartz, **M. Sioutis**, and D. Wolter: *Towards Robust Constraint Satisfaction in Hybrid Hierarchical Planning*. In HPlan@ICAPS 2021, Guangzhou, China.
- Artificial Intelligence **M. Sioutis**: *Leveraging Qualitative Spatio-Temporal Reasoning for Dependable AI/ML*. In DAI@KI 2020, Bamberg, Germany. (Discussion)
- Artificial Intelligence M. Alirezaie, M. Långkvist, **M. Sioutis**, and A. Loutfi: *Semantic Referee: A Neural-Symbolic Framework for Enhancing Geospatial Semantic Segmentation*. In TAILOR@ECAI 2020, Santiago de Compostela, Spain.
- Artificial Intelligence **M. Sioutis**, and D. Wolter: *Towards Parallelisation of Qualitative Spatial and Temporal Reasoning*. In QR@IJCAI 2019, Macao, China.
- Artificial Intelligence **M. Sioutis**, and A. Loutfi: *Efficient Dynamic Methods for Qualitative Constraint-based Spatial and Temporal Reasoning (Position Paper)*. In PTHG@CP 2018, Lille, France.
- Artificial Intelligence M. Alirezaie, M. Långkvist, **M. Sioutis**, and A. Loutfi: *A Symbolic Approach for Explaining Errors in Image Classification Tasks*. In L&R@IJCAI 2018, Stockholm, Sweden.
- Artificial Intelligence M. Alirezaie, M. Långkvist, **M. Sioutis**, and A. Loutfi: *Position Paper: Reasoning upon Learning: A Generic Neural-Symbolic Approach*. In NeSy 2018, Prague, Czech Republic.
- Artificial Intelligence **M. Sioutis**, M. Alirezaie, J. Renoux, and A. Loutfi: *Towards a Synergy of Qualitative Spatio-Temporal Reasoning and Smart Environments for Assisting the Elderly at Home*. In QR@IJCAI 2017, Melbourne, Australia.
- Network Analysis P. Liakos, K. Papakonstantinou, **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
- Intelligent Agents A. Vuono, M. Luperto, J. Banfi, N. Basilico, A. Borghese, **M. Sioutis**, J. Renoux, and A. Loutfi: *Seeking Prevention of Cognitive Decline in Elders via Activity Suggestion by A Virtual Caregiver*. In AAMAS 2018, Stockholm, Sweden.

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, Istanbul, Turkey.

Posters

Artificial **M. Sioutis**, Z. Long, and T. Janhunen: *On Robustness in Qualitative Constraint Networks*. In FCAI-FAIS AI Day 2020, Espoo, Finland.

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 **M. Sioutis**: *Algorithmic Contributions to Qualitative Constraint-based Spatial and Temporal Reasoning*, University of Artois, Center of Research in Computer Science of Lens, 2017, PhD Thesis.

Merits and Awards

2021 **Best Student Paper Award in the 16th International Conference on Intelligent Systems and Knowledge Engineering (IEEE ISKE)**.

- <http://iske2021.org/>

2020 **Postdoc grant of +336k € from Suomen Akatemia (70%) & Aalto University (30%)**.

- Grant REFNO: 331266 - Success rate was around 15% according to Suomen Akatemia

2018 **Laureate of the FRÖ 2018 Mobility Program from Institut Français de Suède**.

- <https://www.institutfrancais-suede.com/allt-om-fro/?lang=sv>

2017 **Travel Grant Award from the International Joint Conferences on Artificial Intelligence Organization & AI Journal**.

- <https://www.ijcai-17.org/travel-grants.html>

2016 **Best Paper Award in the 9th Hellenic Conference on Artificial Intelligence (SETN)**.

- <http://setn2016.csd.auth.gr/>

2013 **Data Challenge Winning Team in the 6th ACM International Conference on Web Search and Data Mining (WSDM)**.

- <http://www.dis.uniroma1.it/wsdm2013/index.php/authors/data-challenge>

2013 **PhD grant of +82k € from Nord-Pas de Calais (50%) & Université d'Artois (50%)**.

- Grant REFNO: 13005492

Commissions of Trust

2022 **Program Committee member of the 31st ACM Web Conference (WWW)**.

- www2022.thewebconf.org/

2022 **Program Committee member of the 31st International Joint Conference on Artificial Intelligence (IJCAI)**.

- <https://ijcai-22.org/>

2022 **Program Committee member of the 36th AAAI Conference on Artificial Intelligence (AAAI)**.

- <https://aaai.org/Conferences/AAAI-22/>

- 2021 **Senior Program Committee member of the 30th International Joint Conference on Artificial Intelligence (IJCAI).**
- <https://ijcai-21.org/>
- 2021 **Program Committee member of the 35th AAI Conference on Artificial Intelligence (AAAI).**
- <https://aaai.org/Conferences/AAAI-21/>
- 2021 **Reviewer for the Artificial Intelligence Journal.**
- <https://www.journals.elsevier.com/artificial-intelligence>
- 2021 **Reviewer for the International Journal of Approximate Reasoning.**
- <https://www.journals.elsevier.com/international-journal-of-approximate-reasoning>
- 2021 **Reviewer for the Information and Computation Journal.**
- <https://www.journals.elsevier.com/information-and-computation>
- 2020 **Program Committee member of the 29th International Joint Conference on Artificial Intelligence (IJCAI).**
- <https://ijcai20.org/>
- 2020 **Program Committee member of the 24th European Conference on Artificial Intelligence (ECAI).**
- <http://ecai2020.eu/>
- 2020 **Program Committee member of the 34th AAI Conference on Artificial Intelligence (AAAI).**
- <https://aaai.org/Conferences/AAAI-20/>
- 2020 **Program Committee member of the 11th IEEE International Conference on Knowledge Graph (ICKG).**
- <http://ickg2020.bigke.org/>
- 2020 **Program Committee member of the 18th Meeting of Young Researchers in Artificial Intelligence (RJCIA).**
- <http://pfia2020.fr/rjcia-2020/>
- 2020 **Reviewer for the Artificial Intelligence Journal.**
- <https://www.journals.elsevier.com/artificial-intelligence>
- 2019 **Program Committee member of the 28th International Joint Conference on Artificial Intelligence (IJCAI).**
- <https://ijcai19.org/>
- 2019 **Program Committee member of the 17th Meeting of Young Researchers in Artificial Intelligence (RJCIA).**
- <https://www.irit.fr/pfia2019/en/rjcia-2/>
- 2019 **Session Chair of the 26th International Symposium on Temporal Representation and Reasoning (TIME).**
- <https://sites.google.com/unife.it/time-2019>
- 2018 **Program Committee member of the 27th International Joint Conference on Artificial Intelligence (IJCAI).**
- <http://ijcai-18.org/>
- 2018 **Program Committee member of the 10th Hellenic Conference on Artificial Intelligence (SETN).**
- <http://setn2018.upatras.gr/>
- 2018 **Program Committee member of the IJCAI Workshop on Learning and Reasoning.**
- <http://www.iiia.csic.es/LR2018/home>
- 2018 **Reviewer for the Theoretical Computer Science Journal.**
- <https://www.journals.elsevier.com/theoretical-computer-science>
- 2018 **Reviewer for the Annals of Mathematics and Artificial Intelligence Journal.**
- <https://link.springer.com/journal/10472>

- 2013–2017 **Member of the Network Analysis Group at NKUA.**
- <http://hive.di.uoa.gr/network-analysis/>
- 2017 **Reviewer for the Information Sciences Journal.**
- <https://www.journals.elsevier.com/information-sciences/>
- 2017 **Reviewer for the Fuzzy Sets and Systems Journal.**
- <https://www.journals.elsevier.com/fuzzy-sets-and-systems/>
- 2017 **Reviewer for the 26th International Joint Conference on Artificial Intelligence (IJCAI).**
- <http://ijcai-17.org/>
- 2017 **Reviewer for the 31st AAAI Conference on Artificial Intelligence (AAAI).**
- <http://www.aaai.org/Conferences/AAAI/aaai17.php>
- 2017 **Reviewer for the 29th IEEE International Conference on Tools with Artificial Intelligence (ICTAI).**
- <http://ictai2017.org/>
- 2015 **Local Organizer of the Advanced Course on AI (ACAI) school.**
- <http://www.cril.univ-artois.fr/acai15/>
- 2015 **Reviewer for the 27th IEEE International Conference on Tools with Artificial Intelligence (ICTAI).**
- <https://sites.google.com/site/ictai2015italy/>
- 2014 **Reviewer for the 21st European Conference on Artificial Intelligence (ECAI).**
- <http://www.ecai2014.org/>
- 2012–2013 **Member of the Laboratory of Information, Network and Communication Sciences (LINCS).**
- <http://www.lincs.fr/>
- 2013 **Local Arrangements Chair of the 1st 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 24th IEEE International Conference on Tools with Artificial Intelligence (ICTAI).**
- <http://ictai12.unipi.gr/>

References

- Prof. Tomi Janhunen: tomi.janhunen@tuni.fi
- Prof. Sanjiang Li: sanjiang.li@uts.edu.au
- Prof. Mehul Bhatt: mehul.bhatt@oru.se
- Prof. Jean-François Condotta: jfrancois.condotta@univ-artois.fr (PhD Advisor)
- Prof. Diedrich Wolter: diedrich.wolter@uni-bamberg.de
- Dr. Zhiguo Long: zhiguolong@swjtu.edu.cn
- Dr. Anastasia Paparrizou: paparrizou@cril.fr

Useful Links

- Google Scholar https://scholar.google.de/citations?user=a_QQC-sAAAAJ&hl=en
- ResearchGate https://www.researchgate.net/profile/Michael_Sioutis
- ORCID <https://orcid.org/0000-0001-7562-2443>
- DBLP <https://dblp.uni-trier.de/pers/hd/s/Sioutis:Michael>
- Semantic Scholar <https://www.semanticscholar.org/author/Michael-Sioutis/1806203>

Biography

My name is Michael Sioutis, and as of January 2020 I am a Researcher at the University of Bamberg, Germany, and in particular at the Faculty of Information Systems and Applied Computer Sciences here, where I do research in the intersection of Symbolic AI and Machine Learning and assist with CS courses. Before moving to Germany, and as far as postdoctoral research is concerned, I was a Postdoc at Aalto University, Finland, during 2019, working on Constraint-based Optimization and Machine Learning, with the support of the Finnish Centre of Excellence in Computational Inference Research (<https://research.cs.aalto.fi/coin/index.shtml>). Further, I was a Postdoc at Örebro University, Sweden, from May 2017 to December 2018, focusing on Constraint-based Reasoning in the context of the EU project MoveCare (<http://www.movecare-project.eu/>), as well as Neuro-Symbolic AI. Moreover, I was an Adjunct Lecturer & Researcher (Attaché Temporaire d'Enseignement et de Recherche) at Lens University Institute of Technology, France, from October 2016 to April 2017, researching on collaborative approaches among diverse reasoning techniques (e.g., Boolean Satisfiability and Constraint Programming). I successfully defended my PhD Thesis titled "*Algorithmic Contributions to Qualitative Constraint-based Spatial and Temporal Reasoning*" on 27th February 2017, and consequently became a Doctor of the University of Artois, France, in Computer Science. During my PhD I was advised by Professors Jean-François Condotta, Bertrand Mazure, and Yakoub Salhi, and I was also fortunate to be offered an honorary appointment as a Visiting Research Student under the supervision of Prof. Sanjiang Li at the University of Technology Sydney, Australia, for about 5 weeks from December 2015 to January 2016. There, I worked with researchers on Constraint Programming and the Simple Temporal Problem. My overall doctoral research focused on pushing the envelope in the field of Qualitative Spatial and Temporal Reasoning (QSTR); in some of my free time, I also worked a bit with researchers from the National and Kapodistrian University of Athens, Greece, on Social Network Analysis and Graph Compression (<https://hive.di.uoa.gr/network-analysis/>).

My general interests lie in Artificial Intelligence, Data Mining, Linux System Engineering, Logic Programming, and Semantic Web, and by now I am recognized as one of the leading experts in the field of QSTR by my peers. I have a strong international background and an excellent and diverse publication list, ranging from theoretical computer science, mathematics, and logic to practical algorithms and applications. Moreover, I have published my work in many top-tier venues of various program committees, e.g., 6×IJCAI, KR, ECAI, CP, 3×TIME, CIKM, ECIR, TABLEAUX, INAP, SAC, AAMAS, 4×ICTAI, 3×AIMSA, Theor. Comput. Sci, 2×Inf. Comput., Knowl. Eng. Rev., Comput. J., Künstliche Intell., 2×Int. J. Artif. Intell. Tools, and Semantic Web; specifically, I have published in at least 33 different venues. Further, I have been active in software development throughout my academic career (please refer to my homepage for implemented tools), have been involved in numerous EU-funded projects and various diverse research topics of Computer Science, and have collaborated with many researchers around the globe from interdisciplinary fields (please refer to my co-author list in DBLP). Specifically, in addition to the EU project MoveCare mentioned earlier, I have worked as a Research Assistant in the National and Kapodistrian University of Athens, Greece, for the EU project TELEIOS (<https://cordis.europa.eu/project/id/257662>), studying Linked Geospatial Data, Ontologies, and Semantic Web technologies, and as a Research Engineer in Sorbonne University, France, for the EU project Fed4FIRE (<http://fed4fire.eu/>), working on Networking. I consider myself to have a strong international outlook, and I am always eager to reach out to and collaborate with fellow researchers; in cooperative projects, such as the EU projects mentioned earlier, more often than not, I have taken the leading role for many tasks and have been the driving force behind them. I have also been willing to extend my research expertise to (remotely or closely) related research areas such as Databases, Engineering, and Information Retrieval. My interest in bridging theory and practice, combined with my capability for producing complex software systems, enables me to make substantial scientific contributions in many different contexts, and my track record demonstrates that I can continuously solve difficult problems and discover important new directions for research.