

Βιογραφικό Σημείωμα

Phokion G. Kolaitis
<http://www.cs.ucsc.edu/~kolaitis>
Computer Science Department
University of California, Santa Cruz
Santa Cruz, CA 95064
kolaitis@cs.ucsc.edu
and
Computer Science Principles and Methodologies
IBM Research - Almaden
650 Harry Road
San Jose, CA 95120, USA
kolaitis@almaden.ibm.com

Τρέχουσα απασχόληση

Distinguished Professor of Computer Science, University of California, Santa Cruz.

Research Staff Member (part-time), Department of Computer Science Principles and Methodologies, IBM Research - Almaden, San Jose.

Προηγούμενη απασχόληση

- 2012– Distinguished Professor of Computer Science, UC Santa Cruz.
- 2004–08 Research Staff Member and Senior Manager, Computer Science Principles and Methodologies, IBM Almaden Research Center, San Jose, June 2004 to September 2008 (on leave of absence from UC Santa Cruz).
- 2001–02 Academic Visitor, Foundations of Computer Science, IBM Almaden Research Center, San Jose (on sabbatical leave from UC Santa Cruz).
- 1997–01 Chair, Computer Science Department, UC Santa Cruz.
- 1994– Professor of Computer Science, UC Santa Cruz.
- 1993–94 Visiting Associate Professor, Computer Science Department, Stanford University (supported by a Guggenheim Fellowship and a sabbatical leave from UC Santa Cruz).
- 1990–94 Associate Professor of Computer Science, UC Santa Cruz.
- 1988–90 Assistant Professor of Computer Science, UC Santa Cruz.
- 1987–88 Visiting Associate Professor, Computer Science Department, Stanford University.
- 1986–87 Visiting Scientist, Foundations of Computer Science, IBM Almaden Research Center, San Jose.
- 1981–86 Assistant Professor of Mathematics, Occidental College, Los Angeles (promoted to Associate Professor and granted tenure in April 1986).
- 1984–85 Visiting Assistant Professor, Dept. of Mathematics, University of California, Los Angeles (partially supported by a J.D. MacArthur Research Professorship from Occidental College).
- 1979–81 L.E. Dickson Instructor, Department of Mathematics, The University of Chicago.

Εκπαίδευση

Diploma in Mathematics, University of Athens, Greece, 1973.

M.A. in Mathematics, University of California, Los Angeles, 1974.

Ph.D. in Mathematics, University of California, Los Angeles, 1978.

Ερευνητικά ενδιαφέροντα

Principles of Database Systems, Logic in Computer Science, Computational Complexity

Βραβεία και διακρίσεις

Best Paper Award for the paper “Learning Schema Mappings” (co-authored with B. ten Cate and V. Dalmau), 15th International Conference on Database Theory (ICDT 2012), 2012.

Fellow of the American Association for the Advancement of Science (AAAS), elected in 2010.

Best Paper Award for the paper “Repair Checking in Inconsistent Databases: Algorithms and Complexity” (co-authored with F. Afrati), 12th International Conference on Database Theory (ICDT 2009), 2009.

ACM PODS Alberto O. Mendelzon Test-of-Time Award for the paper “Conjunctive-query containment and constraint satisfaction” (co-authored with M.Y. Vardi), 2008.

Foreign Member, Finnish Academy of Science and Letters, elected in 2007.

Fellow of the Association of Computing Machinery (ACM), elected in 2005.

IBM Research Division, First Invention Plateau, 2008.

IBM Research Division Outstanding Technical Achievement Award for *Schema Mappings Research: Theory and Practice* (joint work with R. Fagin and L. Popa), 2008.

IBM Research Division Outstanding Innovation Award for *Foundations of Schema Mappings* (joint work with R. Fagin and L. Popa), 2005.

IBM Research Division 2004 Pat Goldberg Memorial Best Paper Award in Computer Science, Engineering, and Mathematics for the paper *Composing Schema Mappings: Second-Order Dependencies to the Rescue* (co-authored with R. Fagin, L. Popa, and W.-C. Tan).

Excellence in Teaching Award, awarded by the graduating computer science and computer engineering majors of UC Santa Cruz, 1995.

Guggenheim Fellowship, awarded by the John Simon Guggenheim Memorial Foundation, 1993-94.

The joint work with M.Y. Vardi on 0-1 laws for fragments of second-order logic earned an IBM Research Division Outstanding Innovation Award in 1992.

Άλλες διακρίσεις

Visiting Fellow, Special Programme on *Syntax and Semantics: A Legacy of Alan Turing*, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, Spring 2012..

Plumer Visiting Research Fellow, St. Anne’s College, University of Oxford, January-March, 2009.

Visiting Fellow, Special Programme on *Logic and Algorithms*, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, Winter 2006.

Invited Professor, LIX Laboratory, Ecole Polytechnique, Paris, France, February 2003.

Invited Participant, 2000-01 Program on Mathematical Logic, Institut Mittag-Leffler, The Swedish Royal Academy of Sciences, Sweden, April 2001.

Invited Professor, University of Nancy and LORIA (French National Institute for Research in Computer Science and Control), Nancy, France, June-July 1993 and July 1997.

Εξωπανεπιστημιακή χρηματοδότηση έρευνας (τελευταία δεκαπέντε έτη)

- 2009–13 Principal Investigator, “Data Interoperability via Schema Mappings” (co-PI: Professor W.-C. Tan), NSF ARRA Grant No. IIS-0905276, \$1,151,548.
- 2004–10 Principal Investigator, IIS-0430994 “Metadata Model Management: Schema Mappings and Data Exchange” (co-PI: Professor W.-C. Tan), NSF Grant No. IIS-0430994, \$759,722.
- 2000–04 Principal Investigator, “Constraint Satisfaction and Database Query Evaluation”, NSF Grant No. IIS-9907419, \$188,388.
- 1998–01 Principal Investigator, “Automated Deduction and Computational Complexity”, NSF Grant No. CCR-9732041, \$182,982
- 1997–00 Principal Investigator, “Aspects of Computation Theory and Logic”, NSF Grant No. CCR-9610257, \$248,999.

Τρέχουσα και πρόσφατη υπηρεσία σε εκδοτικά συμβούλια

Area Editor, Database Systems and Theory, *Journal of the Association for Computing Machinery - JACM*, 2009 to present.

Editorial Board Member, *Journal of Logic and Computation*, 1991 to present.

Editorial Board Member, *Theory of Computing Systems*, 2001 to present.

Editorial Board Member, *International Journal of Foundations of Computer Science*, 2002 to present.

Associate Editor, *Association for Computing Machinery Transactions on Database Systems - ACM TODS*, October 2005 to September 2011.

Managing Editor, *Annals of Pure and Applied Logic*, January 1997 to December 2008.

Editorial Board Member, *Bulletin of Symbolic Logic*, January 2002 to December 2007.

Προσφορά στο λειτούργημα από θέση ευθύνης (τελευταία δεκαπέντε έτη)

General Chair, ACM Symposium on Principles of Database Systems (PODS), June 2006 to June 2008.

General Chair, IEEE Symposium on Logic in Computer Science (LICS), July 2003 to August 2006.

Program Committee Chair, East-Asian School on Logic, Language, and Computation (EASLLC 2012), Chongqing, China, 2012.

Program Committee Chair, 18th Annual IEEE Symposium on Logic in Computer Science (LICS 2003).

Program Committee Chair, 21st Annual ACM Symposium on Principles of Database Systems (PODS 2002).

Scientific Committee Chair, 2nd Panhellenic Logic Symposium, Delphi, Greece, 1999.

Program Committee Co-Chair, 6th International Conference on Database Theory (ICDT '97).

Co-organizer, DEIS '10 - *Advanced School on Data Exchange, Integration, and Streams* (GI-Dagstuhl Seminar), Dagstuhl - Leibniz Center for Informatics, Germany, November 2010.

Co-organizer, Dagstuhl Seminar 09941 on *The Constraint Satisfaction Problem: Complexity and Approximability*, Schloss Dagstuhl - Leibniz Center for Informatics, Germany, October 2009.

Co-organizer INFINT 2009 - Bertinoro Workshop on *Data and Service Integration*, University Residential Center of Bertinoro, Italy, 2009.

Co-organizer, American Institute of Mathematics Workshop on *Applications of Universal Algebra and Logic to the Constraint Satisfaction Problem*, Palo Alto, California, April 2008.

Co-organizer, INFINT 2007 - Bertinoro Workshop on *Information Integration*, University Residential Center of Bertinoro, Italy, 2007.

Co-organizer, Dagstuhl Seminar 06401 on *Complexity of Constraints*, Schloss Dagstuhl - Leibniz Center for Informatics, Germany, October 2006.

Άλλες υπηρεσίες στο λειτούργημα (τελευταία δεκαπέντε έτη)

Member, Executive Committee, Association for Symbolic Logic, elected to a three-year term in January 2010.

Member, Advisory Board, IEEE Annual Symposium on Logic in Computer Science, July 2012 to present.

Member, Selection Committee, 2009, 2010, and 2012 ACM PODS Alberto O. Mendelzon Test-of-Time Award.

Member, Selection Committee, 2009, IEEE Symposium on Logic in Computer Science Test-of-Time Award.

Member, Executive Committee, ACM Symposium on Principles of Database System, June 2008 to 2012.

Program Committee Member, 31st ACM Symposium on Principles of Database Systems (PODS 2012).

Program Committee Member, 37th International Colloquium on Automata, Languages, and Programming (ICALP 2010).

Program Committee Member, 2009 International Conference on Data Engineering (ICDE 2009).

Program Committee Member, 11th International Conference on Database Theory (ICDT 2007).

Membership Committee Member, Association for Symbolic Logic, 2007 to 2010.

Member, Organizing Committee, IEEE Annual Symposium on Logic in Computer Science, 2006 to 2012.

Program Committee Member, 17th Annual IEEE Symposium on Logic in Computer Science (LICS 2002).

Steering Committee Member, North American Summer School on Logic, Language and Information, 2002 to present.

Program Committee Member, 20th Annual ACM Symposium on Principles of Database Systems (PODS 2001).

Program Committee Member, 16th Annual ACM Symposium on Principles of Database Systems (PODS 1997).

Υπηρεσία στη Σύγκλητο του Πανεπιστημίου της Καλιφόρνια (τελευταία δεκαπέντε έτη)

Service at the System-wide Academic Senate of the University of California

- 2010-11 Chair, University of California Committee on Research Policy (UCORP)
- 2010-11 Member, Academic Council, University of California
- 2009-10 Vice-Chair, University of California Committee on Research Policy (UCORP)
- 2008-09 Member, University of California Committee on Research Policy (UCORP)

Υπηρεσία στη Σύγκλητο του Πανεπιστημίου της Καλιφόρνια Σάντα Κρουζ

- 2008-10 Chair, Committee on Research
- 2008-10 Member, Senate Executive Committee
- 2003-04 Member, Committee on Planning and Budget
Member, Committee on Career Advising
- Fall 2000 Graduate Council Chair and UC Santa Cruz Representative to the University of California Coordinating Committee for Graduate Affairs (CCGA)
- 1999-01 Member, Graduate Council
- 1996-99 Member, Committee on Educational Policy (CEP).

Πρόσφατες προσκεκλημένες παρουσιάσεις σε Συνέδρια, Εργαστήρια και Προκεχωρημένα Σχολεία

- 2012 “Schema Mappings and Data Exchange”, Invited Short Course in the PhD Open Program, Computer Science Department, University of Warsaw, Poland, April 2012.
- 2011 “Schema Mappings and Data Examples: An Interplay between Syntax and Semantics”, Invited Talk, 31st IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2012), Mumbai, India, December 2011.
“Logic and Databases”, Invited Tutorial, Workshop on Finite and Algorithmic Model Theory, IIT Bombay, Mumbai, India, December 2011.
“Schema Mappings and Data Examples”, Keynote Talk, 2011 International Workshop on Logic in Databases (LID 2011), Uppsala, Sweden, March 2011.
“Random Graphs and the Parity Quantifier”, Invited Talk, VIG Logic Meeting, University of California, Los Angeles, February 2011.
- 2010 “Relational Databases, Logic, and Complexity”, Invited Short Course, Sino-European School on Logic, Language, and Information (SELLC '10), Guangzhou, China, December 2010.
“Random Graphs and the Parity Quantifier”, Invited Talk, Set Theory, Model Theory, Generalized Quantifiers, and Foundations of Mathematics, Meeting in Honor of Jouko Väänänen’s 60th Birthday, Helsinki, Finland, September 2010.
“Composing and Inverting Schema Mappings”, Invited Talk, 23rd International Workshop on Description Logics (DL 2010), Waterloo, Canada, May 2010.
- 2009 “Relational Databases, Logic, and Complexity”, Invited Short Course, 2009 GII Doctoral School on Advances in Databases, University of Calabria Italy, September 2009.

- “Repair Checking in Inconsistent Databases: Algorithms and Complexity”, Invited Talk, Tenth International Workshop on Logic and Computational Complexity (LCC '09), Los Angeles, August 2009.
- “Foundations and Applications of Schema Mappings”, Plenary Talk, 2009 Computability in Europe Conference (CiE 2009), Heidelberg, Germany, July 2009.
- 2008 “Foundations and Applications of Schema Mappings”, Invited Tutorial, 2008 Workshop on Logic and Algorithms (LAA 2008), University of Edinburgh, UK, July 2008.
- “Computer Science Workshops: Blurring the distinction between conferences and workshops”, Invited Panel Presentation, Panel on “Paper and Proposal Reviews: Is the Process Flawed?”, 2008 CRA Snowbird Conference, Snowbird, Utah, July 2008.
- “Logic and Constraint Satisfaction: An Introduction”, Invited Tutorial, AIM Workshop on “Applications of universal algebra and logic to the constraint satisfaction problem”, American Institute of Mathematics (AIM), Palo Alto, California, March 2008.
- 2007 “Reflections on Finite Model Theory”, Invited Talk, 22nd Annual IEEE Symposium on Logic in Computer Science (LICS 2007), Wroclaw, Poland, July 2007.
- Invited Panelist, Panel on “How can academia and industry work together to address educational issues”, Google Education Summit, Mountain View, California, July 2007.
- 2006 “Data Exchange”, Invited Short Course, Bertinoro Ph.D. School on Data and Service Integration (DASI '06), Bertinoro, Italy, December 2006.
- “Constraint Satisfaction and Logic”, Invited Tutorial, Workshop on Mathematics of Constraint Satisfaction: Algebra, Logic and Graph Theory, Isaac Newton Institute Satellite Workshop at the University of Oxford, Special Programme on Logic and Algorithms, Oxford, UK, March 2006.
- “Foundations of Schema Mappings”, Invited Tutorial, Workshop on Logic and Databases, Special Programme on Logic and Algorithms, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK, March 2006.
- 2005 “Constraint Satisfaction, Complexity, and Logic”, Invited Tutorial, Logic Colloquium 2005, Association for Symbolic Logic European Summer Meeting, Athens, Greece, August 2005.
- “Inductive Definability and Finite-Variable Logics: From Logic to Computer Science”, Invited Talk, Fifth Panhellenic Logic Symposium (PLS 2005), Athens, Greece, July 2005.
- “Schema Mappings, Data Exchange, and Metadata Management, Keynote Talk,, 24th Annual ACM Symposium on Principles of Database Systems (PODS 2005), Baltimore, Maryland, June 2005.
- Invited Talk, Logic Colloquium, University of California, Los Angeles, May 2005.
- “Constraint Satisfaction, Databases, and Logic”, Invited Short Course, Computer Science Department, University of Rome “La Sapienza”, Italy, April 2005.
- 2004 Invited Speaker, Workshop on Logic and Computational Complexity, Turku, Finland, July 2004.
- Invited Speaker, Third Hellenic Conference on Artificial Intelligence (SETN '04), Samos, Greece, May 2004.
- Invited Talk, Logic Colloquium, University of California, Berkeley, April 2004.
- 2003 Invited Speaker, CISE Distinguished Lecture Series, National Science Foundation, December 2003.
- Invited Speaker, Distinguished Lecture Series, Computer Science Department, University of Toronto, November 2003.

- Invited Speaker, Eighteenth International Joint Conference on Artificial Intelligence (IJCAI 2003), Acapulco, Mexico, August 2003.
- Invited Speaker, 2003 Annual Meeting of the Association for Symbolic Logic, Chicago, June 2003.
- Principal Speaker, 15th McGill Invitational Workshop on Computational Complexity, Bellairs Research Institute of McGill University, St. James, Barbados, March 2003.
- 2002 Invited Speaker, 2nd International Workshop on Complexity in Automated Deduction, 2002 Federated Logic Conference (FLoC 2002), Copenhagen, Denmark, July 2002.
- Invited Lecturer, Advanced course on “Constraint Satisfaction, Complexity, and Logic”, 1st North American Summer School on Logic, Language and Information (NASSLLI ’02), Stanford University, June 2002.
- Invited Speaker, Symposium on the Effectiveness of Logic in Computer Science (ELICS02), Max Planck Institute for Computer Science (MPI), Saarbrücken, Germany, March 2002.
- 2001 Invited Speaker, 6th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR ’01), Vienna, Austria, September 17–19, 2001.
- 2000 Invited Speaker, Ninth CSLI Workshop on Logic, Language and Computation (LLC 9), Stanford University, May 2000.
- Invited Speaker, Symposium in Honor of the 80th Birthday of Roland Fraïssé, Mathematics Institute of Luminy, Marseille, France, May 2000.
- 1999 Invited Speaker, Meeting on Finite Model Theory, Databases and Computer-Aided Verification, International Conference and Research Center for Computer Science, Schloss Dagstuhl, Germany, October 1999.
- Invited Speaker, Workshop on Complexity-theoretic and Recursion-theoretic Methods in Databases, Artificial Intelligence and Finite Model Theory, Federated Logic Conference (FLoC ’99), Trento, Italy, June 1999.
- Invited Speaker, Workshop on Implicit Computational Complexity, Federated Logic Conference (FLoC ’99), Trento, Italy, June 1999.
- Invited Speaker, Workshop on Complexity in Automated Deduction, LORIA, Nancy, France, June 1999.
- Invited Tutorial Speaker “Finite Model Theory: Expressiveness of Logics”, Tutorial and Workshop on Logic and Cognitive Science, Institute for Research in Cognitive Science (IRCS), University of Pennsylvania, April 1999.
- Invited Speaker, Special Session in Model Theory, 1999 Annual Meeting of the Association for Symbolic Logic, San Diego, March 1999.
- Invited Panelist, Symposium on “The Unusual Effectiveness of Logic in Computer Science”, 1999 Annual Meeting of the American Association for the Advancement of Science, Anaheim, January 1999.

Επιμέλεια διεθνών επισκέψεων

- 2010-11 Professor Victor Dalmau, University Pompeu Fabra, Spain; visited UC Santa Cruz during Fall 2010, supported by a NSF Grant.
- Francesca Spezzano, Ph.D. Student, University of Calabria, Italy; visited UC Santa Cruz from October 2010 to July 2011, supported by a Fellowship from the University of Calabria and a NSF Grant.

- 2002-03 Professor Nadia Creignou, Université d'Aix-Marseille 2, France; visited UC Santa Cruz for one month in the fall of 2002, supported by a sabbatical leave.
- 1998-99 Professor Lefteris Kirousis, University of Patras, Greece, visited UC Santa Cruz during Spring 1999, supported by a sabbatical leave and a NSF Grant.
- 1991-92 Professor Jouko K. Väänänen, University of Helsinki, Finland; visited UC Santa Cruz during the entire academic year, supported by a grant from the Academy of Finland.

Επίβλεψη μεταδιδακτορικών ερευνητών

- 2009-11 Dr. Balder ten Cate, University of Amsterdam, The Netherlands; is visiting UC Santa Cruz from October 2009 to October 2011, supported by a NSF Grant.
- 2010-11 Dr. Gaelle Fontaine, University of Amsterdam, The Netherlands; visited UC Santa Cruz from December 2010 to December 2011, supported by a NSF Grant.
- 2009-10 Dr. Walied Othman, University of Hasselt, Belgium; visited UC Santa Cruz January 2010 to July 2010, supported by a NSF Grant.
- 2008-09 Dr. Juha Kontinen, University of Helsinki; visited UC Santa Cruz from September to December 2008 supported by a grant from the Academy of Finland and a NSF grant.
- 2007-08 Dr. Balder ten Cate, University of Amsterdam, The Netherlands; visited UC Santa Cruz and the IBM Almaden Research Center from January 2008 to June 2008 supported by a NSF grant.
- 2006-07 Dr. Vassia Pavlaki, National Technical University of Athens, Greece; visited UC Santa Cruz and the IBM Almaden Research Center from March 2007 to June 2007 supported by a NSF grant.
- 2000-01 Dr. Victor Dalmau, Polytechnic University of Catalonia (UPC), Spain; visited UC Santa Cruz from September 2000 to December 2001 supported by a NSF grant.
- 1997-98 Dr. Martin Otto, Technical University of Aachen, Germany; visited UC Santa Cruz during the entire academic year 1997-98, supported by a grant from DFG (German Science Foundation).
- 1995-96 Dr. Martin Grohe, University of Freiburg, Germany; visited UC Santa Cruz during the entire academic year 1995-96, supported by a postdoctoral fellowship from DAAD (German Academic Exchange Service).
- 1995-96 Dr. Kerkko Luosto, University of Helsinki, Finland; visited UC Santa Cruz from September 1995 to February 1996, supported by a grant from the Academy of Finland.
- 1994-95 Dr. Miki Hermann, INRIA-Lorraine, France; visited UC Santa Cruz during the entire academic year 1994-95, supported by a NATO postdoctoral fellowship.

Επίβλεψη διδακτορικών διατριβών

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|------|-------------------|---|
| 2006 | J. Panttaja | “Complexity in Databases, Games, and Logic” |
| 2004 | Delbert D. Bailey | “Structural Phase Transitions of Boolean Satisfiability Variants” |
| 2002 | Albert Atserias | “Fixed-Point Logics, Descriptive Complexity, and Random Satisfiability” |
| 1996 | Ian Barland | “Expressing Optimization Problems as Integer Programs, and Undirected Path Problems: a Descriptive Complexity Approach” |
| 1993 | Madhukar Thakur | “Descriptive Complexity of Optimization and Counting Problems” |

Επίβλεψη μεταπτυχιακών διπλωματικών και εργασιών

2012	Zhipan Wang	“Computing the Core Universal Solution in Data Exchange”
2010	Enela Pema	“Consistent Query Answering over Inconsistent Databases”
2001	Delbert D. Bailey	“Phase Transitions in Counting-Threshold SAT Problems”
2001	Jonathan Panttaja	“On the Complexity of Existential k -Pebble Games”
2001	Lisa Meteyer	“Quantification in SQL Database Query Language”
2000	Thomas Raffill	“On the Search for a Phase Transition in AC-Matching”
1999	Albert Atserias	“Computational Aspects of First-Order Logic on Finite Structures”
1998	Raymond Wheeler	“On the Complexity of AC-Unification”
1990	Madhavan Thirumalai	“Circumscription: A Formalism of Nonmonotonic Reasoning”

Πατέντες και δημοσιεύσεις

Εγκεκριμένες ή υπό εξέταση πατέντες

1. “Interactive Generation of Integrated Schema”, US Patent 8,180,810, May 15, 2012; co-inventors L. Chiticariu and L. Popa.
2. “Sequential Composition of XML Schema Mappings”, US Patent 7,783,680, August 24, 2010; co-inventors: R. Fagin, L. Popa, W.-C. Tan, C. Yu.
3. “Quasi-inverses of schema mappings”, US Patent 7,689,581, March 30, 2010; co-inventors: R. Fagin, L. Popa, W.-C. Tan.
4. “System and Method for Performing a High-Level Multi-Dimensional Query on a Multi-Structural Database”, US Patent 7,519,582, April 14, 2009; co-inventors: R. Fagin, R. Guha, R. Kumar, J. Novak, D. Sivakumar, and A. Tomkins.

Επιμέλεια βιβλίων

1. *Complexity of Constraints : An Overview of Current Research Themes*, N. Creignou, Ph. Kolaitis, and H. Vollmer (Eds.), Lecture Notes in Computer Science 5250, Springer, 2008.
2. *Proceedings of the 2nd Panhellenic Logic Symposium*, Ph. Kolaitis and G. Koletsos (Eds.), National Technical University of Athens, 1999.
3. *Database Theory - ICDT 1997*, Proceedings of the 6th International Conference on Database Theory, F. Afrati and Ph. Kolaitis (Eds.), Lecture Notes in Computer Science 1186, Springer-Verlag, 1997.
4. *Descriptive Complexity and Finite Models*, N. Immerman and Ph. Kolaitis (Eds.), DIMACS Series in Discrete Mathematics and Theoretical Computer Science, volume 31, American Mathematical Society, 1997.

Επιμέλεια ειδικών εκδόσεων

1. Selections from the *18th IEEE Annual Symposium on Logic in Computer Science (LICS 2003)*, Ph.G. Kolaitis (Ed.), *ACM Transactions on Computational Logic*, 6(4), October 2005, pp. 674–842.
2. Foreword, Selections from the Twenty-First ACM Symposium on Principles of Database Systems (PODS 2002), Ph. G. Kolaitis and V. Vianu, *Journal of the Association for Computing Machinery*, Volume 51, Number 1, 2004.
3. Foreword, Selections from the Twenty-First ACM Symposium on Principles of Database Systems (PODS 2002), Ph. G. Kolaitis and M. J. Franklin, *ACM Transactions of Database Systems*, Volume 29, Number 1, 2004
4. Selections from the 6th International Conference on Database Theory (ICDT 1997), F. Afrati and Ph. G. Kolaitis (Eds.), *Theoretical Computer Science*, Vol. 239, No. 2, May 2000, pp. 187–338.

Κεφάλαια σε βιβλία

1. “Schema mapping evolution through composition and inversion” (with R. Fagin, L. Popa, and W.-C. Tan) in “Schema Matching and Mapping”, Z. Bellahsene, A. Bonifati, and E. Rahm, editors, Springer, 2010, pp. 191-222.
2. “The Expressive Power of Logics on Finite Models” in “Finite Model Theory and its Applications”, EATCS Series: Texts in Theoretical Computer Science, Springer, 2007, pp. 27–124.
3. “A Logical Approach to Constraint Satisfaction” (with M.Y. Vardi) in “Finite Model Theory and its Applications”, EATCS Series: Texts in Theoretical Computer Science, Springer, 2007, pp. 339–371.

Ερευνητικά άρθρα σε περιοδικά και πρακτικά συνεδρίων

1. “Local Transformations and Conjunctive-Query Equivalence” (with R. Fagin), *Proceedings of the 31st ACM Symposium on Principles of Database Systems* (PODS 2012), pp. 179-190, May 2012.
2. “Learning Schema Mappings” (with B. ten Cate and V. Dalmau), *Proceedings of the 15th International Conference on Database Theory* (ICDT 2012), *Best Paper Award*, pp. 182-195, March 2012.
3. “On the Data Complexity of Consistent Query Answering” (with B. ten Cate and G. Fontaine), *Proceedings of the 15th International Conference on Database Theory* (ICDT 2012), pp. 22-33, March 2012.
4. “A Dichotomy in the Complexity of Consistent Query Answering for Queries with Two Atoms” (with E. Pema), *Information Processing Letters*, 112(3), pp. 77-85, 2012.
5. “Characterizing Schema Mappings via Data Examples” (with B. Alexe, B. ten Cate, and W.C. Tan), *ACM Transactions on Database Systems* 36(4): 23, 48 pages, 2011. Invited paper from the *29th ACM Symposium on Principles of Database Systems* (PODS 2010).
 - Preliminary version in *Proceedings of the 29th ACM Symposium on Principles of Database Systems* (PODS 2010), pp. 261-272, June 2010.
6. “Probabilistic Data Exchange” (with B. Kimelfeld and R. Fagin), *Journal of the Association for Computing Machinery*, 58 (4), 55 pages, July 2011.
 - Preliminary version in *Proceedings of the 13th International Conference on Database Theory* (ICDT 2010), March 2010, pp. 76-88.
7. “Designing and Refining Schema Mappings via Data Examples” (with B. Alexe, B. ten Cate, and W.-C. Tan), *Proceedings of the 31st ACM SIGMOD International Conference on Management of Data* (SIGMOD 2011), pp. 133-144, June 2011.
8. “The Quest for a Logic for Polynomial-Time Computation”, Invited Technical Perspective, *Communications of the ACM*, 54 (6), pp. 103, 2011.
9. “Reverse Data Exchange: Coping with Nulls” (with R. Fagin, L. Popa, and W.-C. Tan), *ACM Transactions on Database Systems*, 36 (2), 42 pages, 2011. Invited paper from the *Twenty-eighth ACM Symposium on Principles of Database Systems* (PODS 2009).
 - Preliminary version in *Proceedings of the Twenty-Eighth ACM Symposium on Principles of Database Systems* (PODS 2009), 2009, pp. 23–32.
10. “Database Constraints and Homomorphism Dualities” (with B. ten Cate and W.-C. Tan), *Proceedings of 16th International Conference on Principles and Practice of Constraint Programming* (CP 2010), September 2010, pp. 475-490.
11. “Structural characterizations of schema-mapping languages” (with B. ten Cate), *Communications of the Association for Computing Machinery*, 53 (1), 2010, pp. 101-110 - Invited *Research Highlight*.

- Earlier version in *Proceedings of the 12th International Conference on Database Theory (ICDT 2009)*, 2009, pp. 63-72. 2009.
12. “Laconic Schema Mappings: Computing the Core with SQL Queries” (with B. ten Cate, L. Chiticariu, and W.-C. Tan), *Proceedings of the 35th International Conference on Very Large Databases (VLDB 2009)*, 2009, pp. 1006–1117.
 13. “Random graphs and the parity quantifier” (with S. Kopparty), *Proceedings of the 41st Annual ACM Symposium on Theory of Computing (STOC 2009)*, 2009, pp. 705-714.
 14. “Repair checking in inconsistent databases: algorithms and complexity” (with F. Afrati), *Proceedings of the 12th International Conference on Database Theory ICDT 2009*, 2009, pp. 31-41. *Best Paper Award*.
 15. “The connectivity of Boolean satisfiability: computational and structural dichotomies” (with P. Gopalan, E. Maneva, and C.H. Papadimitriou), *SIAM J. of Computing*, vol. 38, no. 6, 2009, pp. 2330–2355.
 - Preliminary version in *Proceedings of 33rd International Colloquium on Automata, Languages and Programming (ICALP 2006)*, LNCS 4051, Springer, 2006, pp. 346–357.
 16. “Structure identification of Boolean relations and plain bases for co-clones” (with N. Creignou and B. Zanuttini), *Journal of Computer and System Sciences*, 74, 2008, pp. 1003-1115.
 17. “Answering aggregate queries in data exchange” (with F. Afrati), *Proceedings of the Twenty-seventh ACM Symposium on Principles of Database Systems (PODS 2008)*, 2008, pp. 129-138.
 18. “Towards a theory of schema-mapping optimization (with R. Fagin, A. Nash, and L. Popa), *Proc. of the Twenty-seventh ACM Symposium on Principles of Database Systems (PODS 2008)*, pp. 33–42.
 19. “Interactive generation of integrated schema” (with L. Chiticariu and L. Popa), *Proceedings of the 28th ACM SIGMOD International Conference on Management of Data (SIGMOD 2008)*, 2008, pp. 833-846.
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Αναφορές, μετά από κρίση, σε προκεχωρημένα σχολεία, επιτροπές και εργαστήρια

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