

Assistant Professor in Computer Science
 Harvard John A. Paulson School of Engineering and Applied Sciences
<http://stratos.seas.harvard.edu/> - stratos@seas.harvard.edu
 DASlab: <http://daslab.seas.harvard.edu/>

Ph.D.: June 2010
 Publications > 50
 h-index: 27, i10: 51
 Citations > 2400

*MAPPING DATA SYSTEMS DNA – SELF-DESIGNING DATA SYSTEMS -- HARDWARE/SOFTWARE CO-DESIGN
 DATA EXPLORATION--INCREASING DESIGNER/DEVELOPER PRODUCTIVITY -- ACCELERATING DATA SCIENCE*

AWARDS



2017 Best of ACM SIGMOD

Our paper on Monkey: Optimal Navigable Key-value Store was selected as one of the (4) best papers of the ACM SIGMOD International Conference on Management of Data



2017 ACM SIGMOD Most Reproducible Paper Award, *For our SIGMOD 2016 UpBit paper*



2016 Facebook Faculty Award, For our work on self-designing key-value stores



2016 NetApp Faculty Award, For our work on self-designing data systems



2015 Rising Star Award, By the IEEE Technical Committee on Data Engineering.

"For breakthroughs in adaptive data management systems that allow users rich data exploration capabilities without a priori knowledge of the data or queries".



2015 NSF Career Award, For research on Evolutionary Data Systems.



2015 Communications of the ACM Research Highlights selection

For the ACM SIGMOD'12 paper on NoDB



2012 Veni Award, By the Dutch Organization For Research (NWO).

Awarded to "the most promising young researchers in the Netherlands".



2012 Best of VLDB. Our paper on Concurrency Control for Adaptive Indexing was selected as one of the best papers in the 38th International Conference on Very Large Databases (VLDB).

2011 Cor Baayen Award, European Research Consortium for Informatics and Mathematics (ERCIM). Named "*Most promising European young researcher in computer science and applied mathematics*".



Best Ph.D. thesis across all areas of computer science and applied mathematics over all 'ERCIM countries': Austria, Belgium, Cyprus, Czech Republic, Finland, France, Germany, Greece, Hungary, Italy, Luxembourg, Norway, Poland, Portugal, Spain, Sweden, Switzerland, The Netherlands and the United Kingdom.



2011 ACM SIGMOD Jim Gray Doctoral Dissertation Award

By the ACM Special Interest Group on Management of Data



2011 VLDB Best Paper Award in Challenges and Visions



2010 IBM zEnterprise System Recognition Award

For contributions in the IBM ISAO Smart Analytics Big Data product.

**2010 Named “Distinguished Scientist Excelling in Research Abroad”**

By the Hellenic Ministry of National Defense

**2005 Best Student Paper Award**

In 9th European Conference on Research and Advanced Technology for Digital Libraries (ECDL), Vienna, Austria, 2005

Student AwardsFirst Prize in **ACM SIGMOD 2017 Undergraduate Research Competition**. Winner: Graham Lustiber.First Prize in **ACM SIGMOD 2016 Undergraduate Research Competition**. Winner: Alex Liu.**Microsoft PhD Fellowship 2016**. Winner: Lukas Maas.**EMPLOYMENT**

Assistant Professor in Computer Science, Harvard University , USA	1/2014 - now
Scientific Staff Member (Tenure-track)	
Dutch National Research Center for Mathematics and Computer Science, CWI , The Netherlands	4/2010 - 12/2013
Visiting Professor, Data Intensive Applications and Systems group, EPFL , Switzerland	9/2013 - 12/2013
Visiting Professor, Database group, University of Trento , Trento, Italy	11/2011
Visiting Professor, Database group, National University of Singapore , Singapore	4/2011
Research Intern, Database group, IBM Almaden Research Center , USA	7/2010 - 12/2010
Scientific Staff, Data Intensive Applications and Systems group, EPFL , Switzerland	12/2009 - 4/2010
Research Intern, Database group, Microsoft Research Redmond , USA	1/2009 - 4/2009
Researcher (Ph.D.), Database Architectures group, Dutch National Research Center for Mathematics and Computer Science, CWI , The Netherlands	10/2005 - 11/2009
Researcher, Intelligent Systems Laboratory, Technical University of Crete , Greece	8/2003 - 9/2005

EDUCATION

Ph.D. in Computer Science , University of Amsterdam, The Netherlands	10/2005 - 6/2010
Thesis: <i>Database Cracking: Towards Auto-Tuning Database Kernels</i> Supervised by Prof. Martin Kersten and Prof. Stefan Manegold	
Master in Computer Engineering , Technical University of Crete, Greece	7/2003 - 9/2005
Thesis: <i>Distributed Evaluation of Continuous Equi-join Queries over Large Structured Overlay Networks</i> Supervised by Prof. Manolis Koubarakis	
Diploma in Electronic and Computer Engineering	9/1997 - 6/2003
Technical University of Crete, Greece (5 year school) Thesis: <i>P2P-DIET: A query and notification service based on mobile agents for rapid implementation of peer-to-peer applications</i> Supervised by Prof. Manolis Koubarakis	

STUDENT SUPERVISION & TEACHING

Brian Hentschel, Lukas Maas, Abdul Wasay, Michael Kester, Wilson Qin	PhD
Konstantinos Zoumpatianos, Niv Dayan, Manos Athanassoulis	Postdoc
Demi Guo, Drhuv Gupta, Tarik Moon, Stella Pantella, Alex Liu, Wilson Qin, Ore Babarinsa, Yifan Wu	Undergrad

Data Systems	Spring 2014, Fall 2015, 2016, 2017	http://daslab.seas.harvard.edu/classes/cs165/
Big Data Systems	Fall 2014, Spring 2016, 2017, 2018	http://daslab.seas.harvard.edu/classes/cs265/

SERVICE

ORGANIZATION

1. Advisory Board. **ACM SIGMOD** International Conference on Management of Data, 2015 -
2. Reproducibility Chair. **ACM SIGMOD** International Conference on Management of Data, 2015 -
3. Workshops Chair, Intern. Conf. on Extending Database Technology (**ICDE**), 2018
4. Vice Chair, Intern. Conf. on Extending Database Technology (**ICDE**), 2017
5. PhD workshop Chair, Intern. Conf. on Extending Database Technology (**ICDE**), 2017
6. Sponsorship Chair. **ACM SIGMOD** International Conference on Management of Data, 2016 – 2017
7. Chair of Panels. 43th International Conference on Very Large Databases (**VLDB**), 2017, Munich
8. Chair of Demonstrations Track. 42th International Conference on Very Large Databases (**VLDB**), 2016
9. Chair. International Workshop on Data Management on New Hardware (**DaMoN**), 2016/17 with ACM SIGMOD
10. Chair of Tutorials Track. 31th IEEE International Conference on Data Engineering (**ICDE**), 2015
11. Chair of Demonstrations Track. 17th International Conference on Extending Database Technology (**EDBT**), 2014

COMMITTEE MEMBER

12. **ACM SIGMOD** International Conference on Management of Data, 2018, Texas, USA
13. **ACM SIGMOD** International Conference on Management of Data, 2017, North Carolina, USA
14. 8th International Conference on Innovative Data Systems Research (**CIDR**), 2017, Santa Cruz, CA, USA
15. **ACM SIGMOD** International Conference on Management of Data, 2016, San Francisco, California, USA
16. IEEE International Conference on Data Engineering (**ICDE**), 2016, Helsinki, Finland
17. ACM International Conference on Information and Knowledge Management (**CIKM**), 2015, Melbourne, Australia
18. National Science Foundation, Directorate for Computer & Information Science & Engineering, (**NSF CISE**), 2015
19. International Journal on Very Large Databases (**VLDBJ**), 2015
20. ACM Transactions on Database Systems (**TODS**), 2015
21. 41th International Conference on Very Large Databases (**VLDB**), 2015, Hawaii, USA
22. 7th International Conference on Innovative Data Systems Research (**CIDR**), 2015, Monterey, CA, USA
23. 13th USENIX File and Storage Technologies (**FAST**) Conference, 2015, Santa Clara, CA, USA
24. International Conference on Extending Database Technology (**EDBT**), 2015, Brussels, Belgium
25. **ACM SIGMOD** International Conference on Management of Data, 2015, Melbourne, Australia
26. International Workshop on Cloud Data and Platforms (**CloudDP**), with EuroSys, Bordeaux, France, 2015
27. International Workshop on Exploratory Search in Databases and the Web (**ExploreDB**), 2015, with ACM SIGMOD
28. International Workshop on Big Data Management on Emerging Hardware (**HARDS**), with IEEE ICDE, Seoul 2015
29. National Science Foundation, Directorate for Computer & Information Science & Engineering, (**NSF CISE**), 2014
30. 10th International Workshop on Data Management on New Hardware (**DaMoN**), 2014, with ACM SIGMOD,
31. ACM International Conference on Information and Knowledge Management (**CIKM**), 2014, Shanghai, China
32. International Workshop on Self-Managing Database Systems (**SMDB**), 2014, with IEEE ICDE, Chicago, USA
33. 1st International Workshop on Data analytics in the Cloud (**DanaC**), 2014, with ACM SIGMOD, Snowbird Utah, USA
34. 30th IEEE International Conference on Data Engineering (**ICDE**), 2014, Chicago, USA
35. 40th International Conference on Very Large Databases (**VLDB**), 2014, Hangzhou, China
36. 9th International Workshop on Self-Managing Database Systems (**SMDB**), 2014, Chicago, USA
37. IEEE International Conference on Big Data (**IEEE BigData**), 2013, Silicon Valley, CA, USA
38. 33rd **ACM SIGMOD** International Conference on Management of Data 2013, New York, USA
39. 6th International Conference on Innovative Data Systems Research (**CIDR**), 2013, Asilomar, California, USA
40. 39th International Conference on Very Large Databases (**VLDB**), 2013, Trento, Italy
41. 16th International Conference on Extending Database Technology (**EDBT**), 2013, Genoa, Italy
42. 8th International Workshop on Self Managing Database Systems (**SMDB**), 2013, Brisbane, Australia
43. 29th British National Conference on Databases (**BNCOD**), 2013, Oxford, UK
44. 6th International Workshop on Testing Database Systems (**DBTest**), 2013, New York, USA
45. International Workshop on Linked Science (**LISC**), 2013, Sydney, Australia
46. 2nd International Conference on Data Management Technologies and Applications (**DATA**) 2013, Reykjavik, Iceland
47. **E.W.R. Steacie Memorial Fellowship**, Natural Sciences and Engineering Research Council of Canada (NSERC)'13
48. International Journal of Big Data (**IJBD**), Science and Engineering Research Support society
49. **ACM SIGMOD Jim Gray Doctoral Dissertation Award**, 2012
50. 32nd **ACM SIGMOD** International Conference on Management of Data 2012, Arizona, USA
51. 38th International Conference on Very Large Databases (**VLDB**) 2012, Istanbul, Turkey
52. 28th IEEE International Conference on Data Engineering (**ICDE**) 2012, Washington DC, USA
53. 14th International Conference on Extending Database Technology (**EDBT**) 2011, Uppsala, Sweden
54. 27th IEEE International Conference on Data Engineering (**ICDE**) 2011, Ph.D. Workshop, Hanover, Germany
55. 6th International Workshop on Self Managing Database Systems (**SMDB**) 2011, Hanover, Germany
56. 31st **ACM SIGMOD** International Conference on Management of Data 2011, Repeatability, Athens, Greece
57. 12th International Conference on Extending Database Technology (**EDBT**) 2009, Saint-Petersburg, Russia
58. IEEE journal on Transactions on Knowledge and Data Engineering (**TKDE**)
59. IEEE journal on **Internet Computing**

SELECTED RECENT TALKS AND LECTURES

- 2017 Facebook, Google, Amazon Web Services, NetApp
University of Dresden
Keynote at ExploreDB ACM SIGMOD workshop
- 2016 Vertica Cambridge Big Data Meet-up
Hong Kong Chinese University, University of Wisconsin, MIT, North Carolina University
Keynote at the 10th VLDB Workshop on Enabling Real-Time Business Intelligence
- 2015 Brown University, Buffalo University, Paris Descartes University, University of Sydney, Athens University
Keynote at DESWeb workshop on “Data Engineering meets the Semantic Web” in IEEE ICDE
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PATENTS

1. Key-Value Stores With Optimized Merge Policies And Optimized LSM-tree Structures. 1/2018
 2. Data Canopy: Accelerating Exploratory Statistical Analysis. 4/2017
 3. Analytic Database with Optimal Navigable Key-value Store. 1/2017
 4. A Query Management System and Engine Allowing for Efficient Query Execution on Raw Data Files. 11/2012
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FUNDING

- 2017 Dean’s Competitive fund for promising scholarship. 50K USD.
- 2017-19 Facebook Research Gift. 150K USD.
- 2016 NetApp Faculty Fellowship. 50K USD.
- 2016 Facebook Faculty Award. 30K USD.
- 2015-2020 NSF Career Award. Evolutionary Data Systems. US National Foundation. 550K USD.
- 2015-2017 STARnet Research. Unlocking the Promise of Near Memory Computing with Rapid Co-design of Data/Hardware Systems. 300K USD. With David Brooks and Gu –Yeon Wei.
- Industry Gifts: Facebook 10K USD; Google: 1.5K USD.

PAST:

2012 Veni Award. 250K Euros for research on Big Data Exploration. Dutch Organization For Research (NWO).

PUBLICATIONS

IN PROCEEDINGS OF REFEREED CONFERENCES and JOURNALS (RESEARCH PAPERS)

- | | | |
|-----|---|------------------------|
| r1. | Niv Dayan, Manos Athanassoulis, Stratos Idreos . Monkey: Optimal Navigable Key-Value Store. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2017
Best of SIGMOD. | SIGMOD
2017 |
| r2. | Michael Kester, Manos Athanassoulis, Stratos Idreos . Access Path Selection in Main-Memory Optimized Data Systems: Should I Scan or Should I Probe? In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2017 | SIGMOD
2017 |
| r3. | Abdul Wasay, Xinding Wei, Niv Dayan, Stratos Idreos . Data Canopy: Accelerating Exploratory Statistical Analysis. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2017 | SIGMOD
2017 |
| r4. | Manos Athanassoulis, Zheng Yan, and Stratos Idreos . UpBit: Scalable In-Memory Updatable Bitmap Indexing. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2016. Most Reproducible Paper Award. | SIGMOD
2016 |
| r5. | Niv Dayan, Phillippe Bonnet, Stratos Idreos . GeckoFTL: Scalable Flash Translation Techniques For Very Large Flash Devices. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2016 | SIGMOD
2016 |
| r6. | Panagiotis Karras, Saad Malhotra, Rudrika Bhatt, Artyom Nikitin, Denis Antyukhov, and Stratos Idreos . Adaptive Indexing over Encrypted Data. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2016 | SIGMOD
2016 |
| r7. | Manos Athanassoulis, Michael Kester, Lukas Maas, Radu Stoica, Stratos Idreos , Anastassia Ailamaki, and Mark Callaghan. Designing Access Methods: The RUM Conjecture. In Proceedings of the International Conference on Extending Database Technology (EDBT), 2016 | EDBT
2016 |

- r8. Konstantinos Zoumpatianos, **Stratos Idreos**, Themis Palpanas. ADS: The Adaptive Data Series Index. The International Journal on Very Large Databases (VLDBJ), 2016 **VLDBJ 2016**
- r9. Abdul Wasay, Manos Athanassoulis, and **Stratos Idreos**. Queriosity: Automated Data Exploration. In Proceedings of the IEEE International Congress on Big Data, 2015 **BIG DATA 2016**
- r10. Eleni Petraki, **Stratos Idreos**, Stefan Manegold. Holistic Indexing in Main-memory Column-stores. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2015 **SIGMOD 2015**
- r11. Renata Borovica, **Stratos Idreos**, Anastassia Ailamaki, Marcin Zukowski, Campbell Fraser. Smooth Scan: Statistics-Oblivious Access Paths, In Proceedings of the IEEE International Conference on Data Engineering (ICDE), 2015 **ICDE 2015**
- r12. Ioannis Alagiannis, Renata Borovica, Miguel Branco, **Stratos Idreos** and Anastasia Ailamaki. NoDB: efficient query execution on raw data files. Communications of the ACM, Research Highlights, December, 2015 **CACM 2015**
- r13. **Stratos Idreos**. DASlab: The Data Systems Laboratory at Harvard SEAS. ACM SIGMOD Record, 2015 **SIGMOD Record 2015**
- r14. Ioannis Alagiannis, **Stratos Idreos**, Anastasia Ailamaki. H2O: A Hands-free Adaptive Store. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2014 **SIGMOD 2014**
- r15. Konstantinos Zoumpatianos, **Stratos Idreos**, Themis Palpanas. Indexing for Interactive Exploration of Big Data Series. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2014 **SIGMOD 2014**
- r16. Jae-Gil Lee, Gopi Attaluri, Ronald Barber, Naresh Chainani, Oliver Draese, Frederick Ho, **Stratos Idreos**, Min-Soo Kim, Sam Lightstone, Guy Lohman, Konstantinos Morfonios, Keshava Murthy, Ippokratis Pandis, Lin Qiao, Vijayshankar Raman, Vincent Kulandai Samy, Richard Sidle, Knut Stolze and Liping Zhang. Joins On Encoded and Partitioned Data. In Proceedings of the Very Large Databases Endowment (PVLDB), 2014 **PVLDB 2014**
- r17. Goetz Graefe, Felix Halim, **Stratos Idreos**, Harumi Kuno, Stefan Manegold, Bernhard Seeger. Transactional support for adaptive indexing. The International Journal on Very Large Databases (VLDBJ). 23(2):303-328, 2014 **VLDBJ 2014**
- r18. Christos Tryfonopoulos, **Stratos Idreos**, Manolis Koubarakis, Paraskevi Raftopoulou. Distributed Large-Scale Information Filtering. Transactions on Large-Scale Data- and Knowledge-Centered Systems XIII Lecture Notes in Computer Science. 13:91-122, 2014 **TLSDKS 2014**
- r19. **Stratos Idreos** and Erietta Liarou. dbTouch: Analytics at your Fingertips. In Proceedings of the 7th International Conference on Innovative Data Systems Research (CIDR), 2013 **CIDR 2013**
- r20. Erietta Liarou, **Stratos Idreos**, Stefan Manegold and Martin L. Kersten. Enhanced Stream Processing in a DBMS Kernel. In Proceedings of the 16th International Conference on Extending Database Technology (EDBT), 2013 **EDBT 2013**
- r21. Daniel Abadi, Peter Boncz, Stavros Harizopoulos, **Stratos Idreos**, Samuel Madden. The Design and Implementation of Modern Column-Oriented Database Systems. Foundations and Trends in Databases. 5(3):197-280, 2013 **FNT 2013**
- r22. Ioannis Alagiannis, Renata Borovica, Miguel Branco, **Stratos Idreos** and Anastasia Ailamaki. NoDB: efficient query execution on raw data files. In Proceedings of the 32nd ACM SIGMOD International Conference on Management of Data, 2012 **SIGMOD 2012**
- r23. Felix Halim, **Stratos Idreos**, Panagiotis Karras and Roland H. C. Yap. Stochastic Database Cracking: Towards Robust Adaptive Indexing in Main-Memory Column-Stores. In Proceedings of the Very Large Databases Endowment (PVLDB), 5(6): 502-513, 2012 **PVLDB 2012**
- r24. Goetz Graefe, Felix Halim, **Stratos Idreos**, Harumi A. Kuno, Stefan Manegold: Concurrency Control for Adaptive Indexing. In Proceedings of the Very Large Databases Endowment (PVLDB), 5(7): 656-667, 2012 **PVLDB 2012**
Best of VLDB.
- r25. Ronald Barber, Peter Bendel, Marco Czech, Oliver Draese, Frederick Ho, Namik Hrle, **Stratos Idreos**, Min-Soo Kim, Oliver Koeth, Jae-Gil Lee, Tianchao Tim Li, Guy M. Lohman, Konstantinos Morfonios, René Müller, Keshava Murthy, Ippokratis Pandis, Lin Qiao, Vijayshankar Raman, Richard Sidle, Knut Stolze, Sandor Szabo: Business Analytics in (a) Blink. IEEE Data Engineering Bull. 35(1): 9-14, 2012 **IEEE DEBull 2012**
- r26. **Stratos Idreos**, Fabian Groffen, Niels Nes, Stefan Manegold, K. Sjoerd Mullender, Martin L. Kersten: MonetDB: Two Decades of Research in Column-oriented Database Architectures. IEEE Data Engineering Bull. 35(1): 40-45, 2012 **IEEE DEBull 2012**

- r27. Erietta Liarou and **Stratos Idreos**. Too Many Links in the Horizon; What is next? Linked Views and Linked History. In Proceedings of the 10th International Semantic Web Conference (ISWC), Outrageous Ideas track, 2011 **ISWC 2011**
- r28. **Stratos Idreos**, Ioannis Alagiannis, Ryan Johnson and Anastasia Ailamaki. Here are my Data Files. Here are my Queries. Where are my Results? In Proceedings of the 5th International Conference on Innovative Data Systems Research (CIDR), 2011 **CIDR 2011**
- r29. **Stratos Idreos**, Stefan Manegold, Harumi Kuno and Goetz Graefe. Merging What's Cracked, Cracking What's Merged: Adaptive Indexing in Main-Memory Column-Stores. In Proceedings of the Very Large Databases Endowment (PVLDB), 4(9): 585-597, 2011 **PVLDB 2011**
- r30. Martin Kersten, **Stratos Idreos**, Stefan Manegold and Erietta Liarou. The Researcher's Guide to the Data Deluge: Querying a Scientific Database in Just a Few Seconds. In Proceedings of the Very Large Databases Endowment (PVLDB), 4(12): 174-177, 2011 **PVLDB 2011**
Best paper award in Challenges and Visions
- r31. Goetz Graefe, **Stratos Idreos**, Harumi Kuno and Stefan Manegold. Benchmarking Adaptive Indexing. In Proceedings of the 2nd TPC Technology Conference on Performance Evaluation & Benchmarking (TPCTC), 2010 **TPCTC 2010**
- r32. **Stratos Idreos**, Raghav Kaushik, Vivek Narasayya and Ravishankar Ramamurthy. Estimating the Compression Fraction of an Index using Sampling. In Proc. of the 22nd IEEE International Conference in Data Engineering (ICDE), 2010 **ICDE 2010**
- r33. **Stratos Idreos**, Martin Kersten and Stefan Manegold. Self-organizing Tuple Reconstruction In Column-stores. In Proceedings of the 29th ACM SIGMOD International Conference on Management of Data, 2009 **SIGMOD 2009**
- r34. Erietta Liarou, Romulo Goncalves and **Stratos Idreos**. Exploiting the Power of Relational Databases for Efficient Stream Processing. In Proc. of the 19th International. Conference on Extending Database Technology (EDBT), 2009 **EDBT 2009**
- r35. **Stratos Idreos**, Erietta Liarou and Manolis Koubarakis. Continuous Multi-way Joins over Distributed Hash Tables. In Proceedings of the 11th International Conference on Extending Database Technology (EDBT), 2008 **EDBT 2008**
- r36. Erietta Liarou, **Stratos Idreos** and Manolis Koubarakis. Continuous RDF Query Processing over DHTs. In Proceedings of the 6th International Semantic Web Conference (ISWC), 2007 **ISWC 2007**
- r37. **Stratos Idreos**, Martin Kersten and Stefan Manegold. Updating a Cracked Database. In Proceedings of the 27th ACM SIGMOD International Conference on Management of Data, 2007 **SIGMOD 2007**
- r38. **Stratos Idreos**, Martin Kersten and Stefan Manegold. Database Cracking. In Proceedings of the 3rd International Conference on Innovative Data Systems Research (CIDR), 2007 **CIDR 2007**
- r39. Erietta Liarou, **Stratos Idreos** and Manolis Koubarakis. Evaluating Conjunctive Triple Pattern Queries over Large Structured Overlay Networks. In Proceedings of the 5th International Semantic Web Conference (ISWC), 2006 **ISWC 2006**
- r40. **Stratos Idreos**, Christos Tryfonopoulos and Manolis Koubarakis. Distributed Evaluation of Continuous Equi-join Queries over Large Structured Overlay Networks. In Proc. of the 22nd IEEE International Conference in Data Engineering (ICDE), 2006 **ICDE 2006**
- r41. Christos Tryfonopoulos, **Stratos Idreos** and Manolis Koubarakis. Publish/Subscribe Functionality in IR Environments using Structured Overlay Networks. In Proceedings of the 28th Annual International ACM SIGIR Conference, 2005 **SIGIR 2005**
- r42. Christos Tryfonopoulos, **Stratos Idreos** and Manolis Koubarakis. LibraRing: An Architecture for Future Digital Libraries Based on Structured Overlay Networks. In Proceedings of the 9th European Conference on Research and Advanced Technology for Digital Libraries (ECDL), 2005 **ECDL 2005**
Best student paper award
- r43. Paul-Alexandru Chirita, **Stratos Idreos**, Manolis Koubarakis and Wolfgang Nejdl. Publish/Subscribe for RDF-based P2P Networks. In Proceedings of the 1st European Semantic Web Conference (ESWC), 2004 **ESWC 2004**
- r44. Manolis Koubarakis, Christos Tryfonopoulos, **Stratos Idreos** and Yannis Drougas. Selective Information Dissemination in P2P Networks: Problems and Solutions. ACM SIGMOD Record, Special issue on Peer-to- Peer Data Management, Karl Aberer (editor), 32(3), September 2003 **SIGMOD Record 2003**

TUTORIALS

- | | | |
|-----|--|------------------------|
| t1. | Manos Athanassoulis, Stratos Idreos . Design Tradeoffs of Data Access Methods. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2016 | SIGMOD
2016 |
| t2. | Stratos Idreos , Olga Papaemmanouil, Surajit Chaudhuri. Overview of Data Exploration Techniques. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2015 | SIGMOD
2015 |
| t3. | Stratos Idreos , Stefan Manegold and Goetz Graefe. Adaptive indexing in modern database kernels. In Proceedings of the 9th International Conference on Extending Database Technology (EDBT), 2012 | EDBT
2012 |

SELECTED REFEREED SHORT PAPERS

- | | | |
|------|---|------------------------|
| s1. | Stratos Idreos . The Automatic Scientist will be a Data System. In Proceedings of the Biennial Conference on Innovative Data Systems Research (CIDR), 2017 | CIDR
2017 |
| s2. | Alex Liu, Stratos Idreos . Main Memory Adaptive Denormalization. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2016 | SIGMOD
2016 |
| s3. | Wilson Qin, Stratos Idreos . Adaptive Data Skipping in Main-Memory Systems. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2016 | SIGMOD
2016 |
| s4. | Konstantinos Zoumpatianos, Stratos Idreos , Themis Palpanas. RINSE: Interactive Data Series Exploration with ADS+. In Proceedings of the Very Large Databases Endowment (PVLDB), 2015 | PVLDB
2016 |
| s5. | Styliani Pantella and Stratos Idreos . One Loop Does Not Fit All. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2015 | SIGMOD
2015 |
| s6. | Ore Babarinsa and Stratos Idreos . JAFAR: Near-Data Processing for Databases. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2015 | SIGMOD
2015 |
| s7. | Sam Xi, Ore Babarinsa, Manos Athanassoulis, and Stratos Idreos . Beyond the Wall: Near-Data Processing for Databases. In Proceedings of the 11th International Workshop on Data Management on New Hardware (DaMoN), 2015 | DaMoN
2015 |
| s8. | Holger Pirk, Eleni Petraki, Stratos Idreos , Stefan Manegold and Martin L. Kersten. Database Cracking: Fancy Scan, not Poor Man Sort! Proceedings of the 10th International Workshop on Data Management on New Hardware (DaMoN), 2014 | DaMoN
2015 |
| s9. | Erietta Liarou, Stratos Idreos , Stefan Manegold and Martin L. Kersten. MonetDB/DataCell: Online Analytics in a Streaming Column-Store. In Proceedings of the Very Large Databases Endowment (PVLDB), 5(12): 1910-1913, 2012 | PVLDB
2012 |
| s10. | Ioannis Alagiannis, Renata Borovica, Miguel Branco, Stratos Idreos and Anastasia Ailamaki. NoDB in Action: Adaptive Query Processing on Raw Data. In Proceedings of the Very Large Databases Endowment (PVLDB), 5(12): 1942-1945, 2012 | PVLDB
2012 |
| s11. | Ronald Barber, Peter Bendel, Marco Czech, Oliver Draese, Frederick Ho, Namik Hrle, Stratos Idreos , Min-Soo Kim, Oliver Koeth, Jae Gil Lee, Tianchao Tim Lee, Guy Lohman, Konstantinos Morfonios, Keshava Murthy, Lin Qiao, Vijayshankar Raman, Richard Sidle, Knut Stolze. Blink: Not your Father's Database. In Proceedings of the 5 th International Workshop on Business Intelligence for Real-Time Enterprises (BIRTE). 2011 | BIRTE
2011 |
| s12. | Stratos Idreos , Manolis Koubarakis and Christos Tryfonopoulos. P2P- DIET: An Extensible P2P Service that Unifies Ad-hoc and Continuous Querying in Super-peer Networks. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2004 | SIGMOD
2004 |