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 Harvard John A. Paulson School of Engineering and Applied Sciences  
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Ph.D.: June 2010  
 Publications > 50  
 h-index: 28, i10: 53  
 Citations > 2500

*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 & 2018 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 Awards**First 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, <b>Harvard University</b> , USA	1/2014 - now
Scientific Staff Member (Tenure-track)	
Dutch National Research Center for Mathematics and Computer Science, <b>CWI</b> , The Netherlands	4/2010 - 12/2013
Visiting Professor, Data Intensive Applications and Systems group, <b>EPFL</b> , Switzerland	9/2013 - 12/2013
Visiting Professor, Database group, <b>University of Trento</b> , Trento, Italy	11/2011
Visiting Professor, Database group, <b>National University of Singapore</b> , Singapore	4/2011
Research Intern, Database group, <b>IBM Almaden Research Center</b> , USA	7/2010 - 12/2010
Scientific Staff, Data Intensive Applications and Systems group, <b>EPFL</b> , Switzerland	12/2009 - 4/2010
Research Intern, Database group, <b>Microsoft Research Redmond</b> , USA	1/2009 - 4/2009
Researcher (Ph.D.), Database Architectures group, Dutch National Research Center for Mathematics and Computer Science, <b>CWI</b> , The Netherlands	10/2005 - 11/2009
Researcher, Intelligent Systems Laboratory, <b>Technical University of Crete</b> , Greece	8/2003 - 9/2005

**EDUCATION**

<b>Ph.D. in Computer Science</b> , 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	
<b>Master in Computer Engineering</b> , 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	
<b>Diploma in Electronic and Computer Engineering</b>	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	<b>PhD</b>
Konstantinos Zoumpatianos, Niv Dayan, Manos Athanassoulis	<b>Postdoc</b>
Demi Guo, Drhuv Gupta, Tarik Moon, Stella Pantella, Alex Liu, Wilson Qin, Ore Babarinsa, Yifan Wu	<b>Undergrad</b>

<b>Data Systems</b>	Spring 2014, Fall 2015, 2016, 2017	<a href="http://daslab.seas.harvard.edu/classes/cs165/">http://daslab.seas.harvard.edu/classes/cs165/</a>
<b>Big Data Systems</b>	Fall 2014, Spring 2016, 2017, 2018	<a href="http://daslab.seas.harvard.edu/classes/cs265/">http://daslab.seas.harvard.edu/classes/cs265/</a>

## 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

## 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

## FUNDING

- 2018 Physical Sciences and Engineering Accelerator Award. 70K USD.
- 2017 Dean’s Competitive fund for promising scholarship. 50K USD.
- 2017-19 Facebook Research Gift. 150K USD.
- 2016, 2018 NetApp Faculty Fellowship. 100K USD.
- 2016 Facebook Faculty Award. 30K USD.
- 2015-2020 NSF Career Award. Evolutionary Data Systems. US National Foundation. 550K USD.
- 2015-2017 STARnet Research. Near Memory. 300K USD. With David Brooks and Gu –Yeon Wei.
- Industry Gifts: Facebook 10K USD; Google: 1.5K USD.
- 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. | Stratos Idreos, Konstantinos Zoumpatianos, Brian Hentschel, Michael Kester, Demi Guo. The Data Calculator: Data Structure Design and Cost Synthesis From First Principles, and Learned Cost Models. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2018 | <b>SIGMOD<br/>2018</b> |
| r2. | Niv Dayan, Stratos Idreos. Dostoevsky: Better Space-Time Trade-Offs for LSM-Tree Based Key-Value Stores via Adaptive Removal of Superfluous Merging. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2018  | <b>SIGMOD<br/>2018</b> |
| r3. | Brian Hentschel, Michael Kester, Stratos Idreos. Column Sketches: A Scan Accelerator for Rapid and Robust Predicate Evaluation. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2018   | <b>SIGMOD<br/>2018</b> |
| r4. | 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<br><b>Best of SIGMOD.</b>  | <b>SIGMOD<br/>2017</b> |
| r5. | 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  | <b>SIGMOD<br/>2017</b> |
| r6. | 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  | <b>SIGMOD<br/>2017</b> |
| r7. | 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. <b>Most Reproducible Paper Award.</b>   | <b>SIGMOD<br/>2016</b> |
| r8. | Niv Dayan, Philippe 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   | <b>SIGMOD<br/>2016</b> |
| r9. | 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  | <b>SIGMOD<br/>2016</b> |

- r10. 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**
- r11. Konstantinos Zoumpatianos, **Stratos Idreos**, Themis Palpanas. ADS: The Adaptive Data Series Index. The International Journal on Very Large Databases (VLDBJ), 2016 **VLDBJ 2016**
- r12. 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**
- r13. 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**
- r14. 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**
- r15. 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**
- r16. **Stratos Idreos**. DASlab: The Data Systems Laboratory at Harvard SEAS. ACM SIGMOD Record, 2015 **SIGMOD Record 2015**
- r17. 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**
- r18. 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**
- r19. 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 Kulkandai 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**
- r20. 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**
- r21. 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**
- r22. **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**
- r23. 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**
- r24. 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**
- r25. 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**
- r26. 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**
- r27. 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.**
- r28. 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**

- r29. **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**
- r30. 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**
- r31. **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**
- r32. **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**
- r33. 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**
- r34. 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**
- r35. **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**
- r36. **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**
- r37. 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**
- r38. **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**
- r39. 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**
- r40. **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**
- r41. **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**
- r42. 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**
- r43. **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**
- r44. 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**
- r45. 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**
- r46. 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**
- r47. 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, <b>Stratos Idreos</b> . Design Tradeoffs of Data Access Methods. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2016                              | <b>SIGMOD<br/>2016</b> |
| t2. | <b>Stratos Idreos</b> , Olga Papaemmanouil, Surajit Chaudhuri. Overview of Data Exploration Techniques. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2015            | <b>SIGMOD<br/>2015</b> |
| t3. | <b>Stratos Idreos</b> , Stefan Manegold and Goetz Graefe. Adaptive Indexing in Modern Database Kernels. In Proceedings of the 9th International Conference on Extending Database Technology (EDBT), 2012 | <b>EDBT<br/>2012</b>   |

## SELECTED REFEREED SHORT PAPERS

- |      |   |                        |
|------|---|------------------------|
| s1.  | <b>Stratos Idreos</b> . The Automatic Scientist will be a Data System. In Proceedings of the Biennial Conference on Innovative Data Systems Research (CIDR), 2017   | <b>CIDR<br/>2017</b>   |
| s2.  | Alex Liu, <b>Stratos Idreos</b> . Main Memory Adaptive Denormalization. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2016   | <b>SIGMOD<br/>2016</b> |
| s3.  | Wilson Qin, <b>Stratos Idreos</b> . Adaptive Data Skipping in Main-Memory Systems. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2016  | <b>SIGMOD<br/>2016</b> |
| s4.  | Konstantinos Zoumpatianos, <b>Stratos Idreos</b> , Themis Palpanas. RINSE: Interactive Data Series Exploration with ADS+. In Proceedings of the Very Large Databases Endowment (PVLDB), 2015  | <b>PVLDB<br/>2016</b>  |
| s5.  | Styliani Pantella and <b>Stratos Idreos</b> . One Loop Does Not Fit All. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2015  | <b>SIGMOD<br/>2015</b> |
| s6.  | Ore Babarinsa and <b>Stratos Idreos</b> . JAFAR: Near-Data Processing for Databases. In Proceedings of the ACM SIGMOD International Conference on Management of Data, 2015  | <b>SIGMOD<br/>2015</b> |
| s7.  | Sam Xi, Ore Babarinsa, Manos Athanassoulis, and <b>Stratos Idreos</b> . Beyond the Wall: Near-Data Processing for Databases. In Proceedings of the 11th International Workshop on Data Management on New Hardware (DaMoN), 2015   | <b>DaMoN<br/>2015</b>  |
| s8.  | Holger Pirk, Eleni Petraki, <b>Stratos Idreos</b> , 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  | <b>DaMoN<br/>2015</b>  |
| s9.  | Erietta Liarou, <b>Stratos Idreos</b> , 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   | <b>PVLDB<br/>2012</b>  |
| s10. | Ioannis Alagiannis, Renata Borovica, Miguel Branco, <b>Stratos Idreos</b> 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   | <b>PVLDB<br/>2012</b>  |
| s11. | Ronald Barber, Peter Bendel, Marco Czech, Oliver Draese, Frederick Ho, Namik Hrle, <b>Stratos Idreos</b> , 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 <sup>th</sup> International Workshop on Business Intelligence for Real-Time Enterprises (BIRTE). 2011 | <b>BIRTE<br/>2011</b>  |
| s12. | <b>Stratos Idreos</b> , 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   | <b>SIGMOD<br/>2004</b> |

## 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. 43<sup>th</sup> International Conference on Very Large Databases (**VLDB**), 2017, Munich
8. Chair of Demonstrations Track. 42<sup>th</sup> 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. 31<sup>th</sup> IEEE International Conference on Data Engineering (**ICDE**), 2015
11. Chair of Demonstrations Track. 17<sup>th</sup> International Conference on Extending Database Technology (**EDBT**), 2014

### COMMITTEE MEMBER

12. **ACM SIGMOD** International Conference on Management of Data, 2019, Amsterdam, The Netherlands
13. **ACM SIGMOD** International Conference on Management of Data, 2018, Texas, USA
14. **ACM SIGMOD** International Conference on Management of Data, 2017, North Carolina, USA
15. 8<sup>th</sup> International Conference on Innovative Data Systems Research (**CIDR**), 2017, Santa Cruz, CA, USA
16. **ACM SIGMOD** International Conference on Management of Data, 2016, San Francisco, California, USA
17. IEEE International Conference on Data Engineering (**ICDE**), 2016, Helsinki, Finland
18. ACM International Conference on Information and Knowledge Management (**CIKM**), 2015, Melbourne, Australia
19. National Science Foundation, Directorate for Computer & Information Science & Engineering, (**NSF CISE**), 2015
20. International Journal on Very Large Databases (**VLDBJ**), 2015
21. ACM Transactions on Database Systems (**TODS**), 2015
22. 41<sup>th</sup> International Conference on Very Large Databases (**VLDB**), 2015, Hawaii, USA
23. 7<sup>th</sup> International Conference on Innovative Data Systems Research (**CIDR**), 2015, Monterey, CA, USA
24. 13<sup>th</sup> USENIX File and Storage Technologies (**FAST**) Conference, 2015, Santa Clara, CA, USA
25. International Conference on Extending Database Technology (**EDBT**), 2015, Brussels, Belgium
26. **ACM SIGMOD** International Conference on Management of Data, 2015, Melbourne, Australia
27. International Workshop on Cloud Data and Platforms (**CloudDP**), with EuroSys, Bordeaux, France, 2015
28. International Workshop on Exploratory Search in Databases and the Web (**ExploreDB**), 2015, with ACM SIGMOD
29. International Workshop on Big Data Management on Emerging Hardware (**HARDS**), with IEEE ICDE, Seoul 2015
30. National Science Foundation, Directorate for Computer & Information Science & Engineering, (**NSF CISE**), 2014
31. 10<sup>th</sup> International Workshop on Data Management on New Hardware (**DaMoN**), 2014, with ACM SIGMOD,
32. ACM International Conference on Information and Knowledge Management (**CIKM**), 2014, Shanghai, China
33. International Workshop on Self-Managing Database Systems (**SMDB**), 2014, with IEEE ICDE, Chicago, USA
34. 1<sup>st</sup> International Workshop on Data analytics in the Cloud (**DanaC**), 2014, with ACM SIGMOD, Snowbird Utah, USA
35. 30<sup>th</sup> IEEE International Conference on Data Engineering (**ICDE**), 2014, Chicago, USA
36. 40<sup>th</sup> International Conference on Very Large Databases (**VLDB**), 2014, Hangzhou, China
37. 9<sup>th</sup> International Workshop on Self-Managing Database Systems (**SMDB**), 2014, Chicago, USA
38. IEEE International Conference on Big Data (**IEEE BigData**), 2013, Silicon Valley, CA, USA
39. 33<sup>rd</sup> **ACM SIGMOD** International Conference on Management of Data 2013, New York, USA
40. 6<sup>th</sup> International Conference on Innovative Data Systems Research (**CIDR**), 2013, Asilomar, California, USA
41. 39<sup>th</sup> International Conference on Very Large Databases (**VLDB**), 2013, Trento, Italy
42. 16<sup>th</sup> International Conference on Extending Database Technology (**EDBT**), 2013, Genoa, Italy
43. 8<sup>th</sup> International Workshop on Self Managing Database Systems (**SMDB**), 2013, Brisbane, Australia
44. 29<sup>th</sup> British National Conference on Databases (**BNCOD**), 2013, Oxford, UK
45. 6<sup>th</sup> International Workshop on Testing Database Systems (**DBTest**), 2013, New York, USA
46. International Workshop on Linked Science (**LISC**), 2013, Sydney, Australia
47. 2<sup>nd</sup> International Conference on Data Management Technologies and Applications (**DATA**) 2013, Reykjavik, Iceland
48. **E.W.R. Steacie Memorial Fellowship**, Natural Sciences and Engineering Research Council of Canada (NSERC)'13
49. International Journal of Big Data (**IJBD**), Science and Engineering Research Support society
50. **ACM SIGMOD Jim Gray Doctoral Dissertation Award**, 2012
51. 32<sup>nd</sup> **ACM SIGMOD** International Conference on Management of Data 2012, Arizona, USA
52. 38<sup>th</sup> International Conference on Very Large Databases (**VLDB**) 2012, Istanbul, Turkey
53. 28<sup>th</sup> IEEE International Conference on Data Engineering (**ICDE**) 2012, Washington DC, USA
54. 14<sup>th</sup> International Conference on Extending Database Technology (**EDBT**) 2011, Uppsala, Sweden
55. 27<sup>th</sup> IEEE International Conference on Data Engineering (**ICDE**) 2011, Ph.D. Workshop, Hanover, Germany
56. 6<sup>th</sup> International Workshop on Self Managing Database Systems (**SMDB**) 2011, Hanover, Germany
57. 31<sup>st</sup> **ACM SIGMOD** International Conference on Management of Data 2011, Repeatability, Athens, Greece
58. 12<sup>th</sup> International Conference on Extending Database Technology (**EDBT**) 2009, Saint-Petersburg, Russia
59. IEEE journal on Transactions on Knowledge and Data Engineering (**TKDE**)