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Professor Margo Seltzer

Correspondence language: English

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

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Professor Margo Seltzer

Language Skills

Language	Read	Write	Speak	Understand	Peer Review
English	Yes	Yes	Yes	Yes	Yes

Degrees

- 1992/12 Doctorate, Computer Science, University of California, Berkeley
Supervisors: Michael Stonebraker, 1988/1 - 1992/12
- 1983/6 Bachelor's, Applied Mathematics, Harvard University

Recognitions

- 2017/2 CRA-E Undergraduate Research Mentoring Award
Computing research association
Prize / Award
The CRA-E Undergraduate Research Faculty Mentoring Award recognizes individual faculty members who have provided exceptional mentorship, undergraduate research experiences and, in parallel, guidance on admission and matriculation of these students to research-focused graduate programs in computing.

User Profile

Research Specialization Keywords: Computer systems, Data provenance, Operating systems, Database systems, Transaction processing

Employment

- 2018/9 Canada 150 Research Chair in Computer Systems and Cheriton Family Chair in
Computer Science
Computer Science, Technical University of British Columbia
Full-time, Professor
Tenure Status: Tenure
- 2011/7 Architect
Oracle Labs, Oracle Corporation
- 2000/7 - 2018/8 Herchel Smith Professor of Computer Science
School of Engineering and Applied Sciences, Computer Science, Harvard University
Full-time, Professor
Tenure Status: Tenure
- 2006/3 - 2011/6 Architect
Embedded Systems, Oracle Corporation

- 1997/7 - 2000/6 Associate Professor
Division of Engineering and Applied Sciences, Computer Science, Harvard University
Full-time, Associate Professor
Tenure Status: Tenure Track
- 1993/1 - 1997/6 Assistant Professor
Division of Engineering and Applied Sciences, Computer Science, Harvard University
Full-time, Assistant Professor
Tenure Status: Tenure Track

Research Funding History

Awarded [n=4]

- 2015/11 - 2019/11 PRINCESS : Probabilistic Representation of Intent Commitments to Ensure Software Survival (PRINCESS), Contract
Principal Investigator
- Funding Sources:**
Defense Advanced Research Project Agency (The)
BRASS
Total Funding - 1,380,154
Portion of Funding Received - 698,023
Funding Competitive?: Yes
Principal Investigator : Stephen Chong
- 2014/8 - 2019/7 XPS: FULL: CCA: Collaborative Research: Automatically Scalable Computation, Grant
Principal Investigator
- Funding Sources:**
National Science Foundation (USA)
Exploiting Parallelism and Scalability (XPS)
Total Funding - 525,000
Portion of Funding Received - 255,956
Funding Competitive?: Yes
National Science Foundation (USA)
Exploiting Parallelism and Scalability (XPS)
Total Funding - 115,000
Portion of Funding Received - 115,000
Funding Competitive?: Yes
Co-investigator : Ajay Joshi; David Brooks; Jonathan Appavoo; Ryan Adams; Steve Homer
- 2015/6 - 2019/5 CISE-Provenance : SI2-SSI: Collaborative Research: Bringing End-to-End Provenance to Scientists, Grant
Principal Investigator
- Funding Sources:**
National Science Foundation (USA)
Software Infrastructure for Sustained Innovation
Total Funding - 1,422,728
Portion of Funding Received - 1,030,419
Funding Competitive?: Yes
Co-investigator : Aaron Ellison; Barbara Lerner; Emery Boose
- 2018/1 - 2018/11 Towards a FAIR Digital Ecosystem in the Cloud, Grant
Co-investigator
- Funding Sources:**
National Institutes of Health (NIH) (USA)
Total Funding - 647,221

Portion of Funding Received - 268,388
 Funding Competitive?: Yes
 Principal Investigator : Merce Crosas

Completed [n=5]

2017/9 - 2018/8
 Principal Investigator New Approaches for Ranking in Machine Learning, Grant

Funding Sources:
 Duke University (USA)
 Subcontract from IIS-1053407
 Total Funding - 49,767
 Portion of Funding Received - 49,767
 Funding Competitive?: No
 Principal Investigator : Cynthia Rudin

2015/1 - 2017/12
 Principal Investigator Citation++: Data citation, provenance, and documentation, Grant

Funding Sources:
 National Science Foundation (USA)
 Total Funding - 300,000
 Portion of Funding Received - 288,963
 Funding Competitive?: Yes
 Principal Investigator : Gary King; Merce Crosas

2013/10 - 2017/9
 Principal Investigator CSR: Medium: Collaborative Research: Workload-Aware Storage Architectures for Optimal Performance and Energy Efficiency, Grant

Funding Sources:
 National Science Foundation (USA)
 Computer Systems Research
 Total Funding - 306,077
 Portion of Funding Received - 306,077
 Funding Competitive?: Yes
 Principal Investigator : Erez Zadok; Geoff Keunung

2009/9 - 2013/9
 Co-investigator Analyzing Complex Healthcare Data to Determine Causality of Observed Drug Effects, Grant

Funding Sources:
 National Institutes of Health (NIH) (USA)
 Total Funding - 213,491
 Portion of Funding Received - 213,491
 Funding Competitive?: Yes
 Co-investigator : Jeremy Rassen;
 Principal Investigator : Sebastien Schneeweis

2009/10 - 2012/9
 Principal Investigator Collaborative Research: Scalable Data Management Using Metadata and Provenance, Grant

Funding Sources:
 National Science Foundation (USA)
 Computing and Communication Foundations
 Total Funding - 351,643
 Portion of Funding Received - 351,643
 Funding Competitive?: Yes

Principal Investigator : Darrell Long; Ethan Miller

Student/Postdoctoral Supervision

Doctorate [n=5]

- 2011/9 - 2014/8
Academic Advisor Elaine Angelino (Completed) , Harvard School of Engineering and Applied Sciences
Thesis/Project Title: Accelerating Markov chain Monte Carlo via parallel predictive prefetching
Present Position: Independent
- 2010/9 - 2012/5
Academic Advisor Jason Waterman, Harvard School of Engineering and Applied Sciences
Thesis/Project Title: Coordinated Resource Management in Network Embedded Systems
Present Position: Assistant Professor, Vassar College
- 2008/9 - 2017/8
Academic Advisor Daniel Margo (Completed) , Harvard School of Engineering and Applied Sciences
Thesis/Project Title: Sorting shapes the performance of graph-structured systems
Present Position: Member of the Technical Staff, Google
- 2008/9 - 2015/3
Academic Advisor Peter Macko (Completed) , Harvard School of Engineering and Applied Sciences
Thesis/Project Title: LLAMA: A Persistent, Mutable Representation for Graphs
Present Position: Member of the Technical Staff, Netapp
- 2004/9 - 2014/5
Academic Advisor Uri Braun (Completed) , Harvard School of Engineering and Applied Sciences
Thesis/Project Title: Limiting Disclosure in Annotated Graphs
Present Position: CEO, Sybil Security

Post-doctorate [n=3]

- 2016/9 - 2019/9
Co-Supervisor Ming Kawaguchi, Harvard School of Engineering and Applied Sciences
Thesis/Project Title: Domain specific languages for operating system code synthesis
Present Position: Post doctoral researcher
- 2016/9 - 2017/12
Principal Supervisor Thomas Pasquier, Harvard School of Engineering and Applied Sciences
Thesis/Project Title: Whole system Provenance
Present Position: Lecturer, University of Bristol
- 2010/10 - 2012/10
Principal Supervisor Marc Chiarini, Harvard School of Engineering and Applied Sciences
Thesis/Project Title: Hypervisor-based provenance collection
Present Position: Senior Performance Engineer, Mark Logic

Editorial Activities

- 2018/8 - 2020/8 Computer Science Editor, Harvard Data Science Review, Journal

Organizational Review Activities

- 2018/4 - 2018/6 Member of Visiting Committee, Harvard Business School
Participated in two-day review of the Harvard Business School and assisted in preparation of report to the President.
- 2015/11 - 2015/11 Member, Ecole Polytechnique de federal Lausanne (EPFL)
Visiting committee of the School of Computer and Communication Sciences (IC School).

International Collaboration Activities

- 2018/9 - 2021/5 Advisor, United States
I continue to advise four Ph.D. students at Harvard University.
- 2018/1 - 2020/12 Researcher, United Kingdom
I collaborate with Robert Watson at Cambridge University and Thomas Pasquier at the University of Bristol in the area of data provenance.
- 2016/1 - 2019/12 Researcher, United States
I conduct research on interpretable machine learning with Cynthia Rudin at Duke University, students at Harvard University, and Elaine Angelino from Berkeley.
- 2017/10 - 2018/10 Organizer, Germany
With colleagues from New Zealand (David Ayers) and the UK (Jatindra Singh and Christopher Millard), I co-organized a Dagstuhl Workshop on accountable systems.

Committee Memberships

- 2014/7 Committee Member, Board of Directors, Computing Research Association
I served as the USENIX Representative to the CRA board.
- 2008/7 Committee Member, I served on the USENIX Board of Directors and as Vice President (2010-2012), USENIX Association
I served as a general member and vice president of the USENIX Board of Directors. I also served as Acting Executive Director from September 2011 until April 2012
- 2017/11 - 2020/11 Committee Member, Selection committee for the CRA Outstanding Undergraduate Award, Computing Research Association
This committee selects the winners of the CRA Outstanding Undergraduate Research Award competition.
- 2017/8 - 2020/8 Committee Member, US DARPA Information Science and Technology Study Group (ISAT), US Defense Advanced Research Project Agency (DARPA)
This groups meets three times per year and holds workshops to identify important areas for federal research.
- 2015/9 - 2019/12 Co-chair, Boston University Academy Head of School Advisory Board, Boston University
- 2016/9 - 2019/9 Committee Member, US National Academies Computer Science and Telecommunications Board (CSTB), US National Academies
This group provides technical expertise to the National Academies and Federal Agencies.
- 2002/2 - 2018/2 Committee Member, FAST Steering Committee, USENIX Association
FAST is the premier storage and file system conference; the steering committee selects chairs and ensures continuity year over year.
- 2011/6 - 2017/2 Committee Member, Sloan Research Fellow Computer Science Selection Committee, Sloan Foundation
A committee of three selects the winners of the annual Sloan Research Fellowships. I chaired this committee my last year on the committee.
- 2012/7 - 2014/7 Chair, USENIX Board of Directors, USENIX Association
I served as Board President of the USENIX Association
- 2010/6 - 2013/6 Committee Member, Computing Community Consortium, Computing Research Association
I served as a member at large on the CCC and as a member of the executive committee in 2012-2013.

Other Memberships

- 1994/9 - 2019/10 Member, Association for Computing Machinery (ACM)
 1990/1 - 2019/1 member, USENIX Association

Presentations

1. (2018). An NVM Carol. International Conference on Data Engineering, Paris, France
 Main Audience: Researcher
 Invited?: Yes, Keynote?: Yes
2. (2018). Flipped on Teaching. Harvard Club of Rochester Annual Meeting, Rochester, United States
 Main Audience: General Public
 Invited?: Yes, Keynote?: Yes
3. (2018). Automatically Scalable Computation. DE Shaw Seminar, New York, United States
 Main Audience: Researcher
 Invited?: Yes, Keynote?: No
4. (2018). An NVM Carol. UBC Computer Science 50th Anniversary Celebration, Vancouver, Canada
 Main Audience: General Public
 Invited?: Yes, Keynote?: No
5. (2018). Automatically Scalable Computing. Israeli Systems Research Conference (SYSTOR), Haifa, Israel
 Main Audience: Researcher
 Invited?: Yes, Keynote?: Yes
6. (2017). Berkeley DB: The Good, The Bad, and the Ugly. Workshop on Failed Aspirations in Database Systems (FADS), Munich, Germany
 Main Audience: Researcher
 Invited?: Yes, Keynote?: No
7. (2017). Automatically Scalable Computation. CodeMESH, London, United Kingdom
 Main Audience: Researcher
 Invited?: Yes, Keynote?: Yes
8. (2017). Automatically Scalable Computation. Northwestern Computer Science Distinguished Lecture Series, Evanston, United States
 Main Audience: Researcher
 Invited?: Yes, Keynote?: No
9. (2017). Data Provenance: From Theory to Practice. Monthly Meeting of the IEEE Computer Society, Cambridge, United States
 Main Audience: Knowledge User
 Invited?: Yes, Keynote?: No
10. (2016). Automatically Scalable Computation. 2Sigma Distinguished Lecture Series, New York, United States
 Main Audience: Researcher
 Invited?: Yes, Keynote?: No
11. (2016). Careers in Academia. Women Engineers Code (WeCode), Cambridge, United States
 Main Audience: General Public
 Invited?: Yes, Keynote?: No

12. Mark Miller, David Mazières, Yuanyuan Zhou. (2015). Is achieving security a hopeless quest?. SOSP History Day, Monterey, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: No
13. (2015). Automatically Scalable Computation. International Conference on SuperComputing, Newport Beach, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
14. Jonathan Zittrain, Yochai Benkler, Joseph Nai, Sophia Roosth. (2015). The New Cyber Infrastructure. Annual Meeting of the World Economic Forum, Davos, Switzerland
Main Audience: General Public
Invited?: Yes, Keynote?: No
15. (2013). World Domination Through Provenance. Workshop on Theory and Practice of Provenance, San Jose, United States
Main Audience: Researcher
Invited?: Yes, Keynote?: Yes
16. (2013). Automatically Scalable Computation. RICON, New York, United States
Main Audience: Knowledge User
Invited?: Yes, Keynote?: Yes
17. Regina Herzlinger. (2013). Enabling Health Care Innovation through Technology: The Role of Academia. Distinguished Lecture Series, Washington University School Public Health, St. Louis, United States
Main Audience: General Public
Invited?: Yes, Keynote?: Yes
18. (2012). Provenance in Digital Collections. Meeting of the Library of Congress, Washington DC, United States
Main Audience: General Public
Invited?: Yes, Keynote?: No
19. Janice Ellig, Kristine Lilly, Patricia Florissi. (2012). Transform and Stay True. EMC World, Las Vegas, United States
Main Audience: General Public
Invited?: Yes, Keynote?: Yes

Publications

Journal Articles

1. Rao, M, Bacon, D.F., Parkes, D, Seltzer, M. (2018). Incentivizing Deep Fixes in Software Economics. IEEE Transactions on Software Engineering. : 21 pages.
Published
Refereed?: Yes
2. Pasquier, T., Lau, M, Han, X, Fong, E., Lerner, B., Boose, E, Crosas, M., Ellison, A., Seltzer, M. (2018). Sharing and Preserving Computations Analysis for Posterity with Encapsulator. IEEE Computing in Science and Engineering. 20(4)
Published
Refereed?: Yes, Open Access?: No
3. Angelino, E., Larus-Stone, N, Alabi, D., Seltzer, M., Rudin, C. (2018). Learning Certifiably Optimal Rule Lists for Categorical Data. Journal of Machine Learning Research. 18(234): 1-78.
Published
Refereed?: Yes

4. Pasquier, T., Singh, J., Powles, J., Evers, D., Seltzer, M., Bacon, J. (2017). Data Provenance to Audit Compliance with Privacy Policy in the Internet of Things. *Journal of Personal and Ubiquitous Computing*. : 13 pages.
Accepted
Refereed?: Yes
5. Pasquier, T., Lau, M., Trisovic, A., Boose, E., Couturier, B., Crosas, M., Ellison, A., Gibson, V., Jones, C., Seltzer, M. (2017). If these data could talk. *Nature Scientific*. 18: 5 pages.
Accepted
Refereed?: Yes
6. Daniel Margo, Margo Seltzer. (2015). A Scalable Distributed Graph Partitioner. *Proceedings of the VLDB Endowment*. 8(12): 1478-1489.
Published
Refereed?: Yes, Open Access?: No
7. Carata, L., Akoush, S. Balakrishynan, N., Bytheway, T., Sohan, R., Seltzer, M., Hopper, A. (2014). A Primer on Provenance. *Communications of the ACM* 57. 5: 52-60.
Published
Refereed?: Yes
8. Herzlinger, R., Seltzer, M., Gaynor, M. (2013). Applying KISS to Healthcare Information Technology. *Computer*. 46(11): 72-74.
Published
Refereed?: Yes

Reports

1. Peter Kraft, Amos Waterland, Daniel Y Fu, Anitha Gollamudi, Shai Szulanski, Margo Seltzer. (2018). Automatic Parallelization of Sequential Programs. 12. arXiv.
2. Hongyu Yang, Cynthia Rudin, Margo Seltzer. (2017). Scalable Bayesian Rule Lists. 31. arXiv.

Conference Publications

1. Pasquier, T, Han, X, Moyer, T., Bates, A., Hermant, O, Evers, D., Bacon, J., Seltzer, M. (2018). Runtime Analysis of Whole-System Provenance. *Proceedings of the 2018 Conference on Computer and Communications Security (CCS'18)*. Conference on Computer and Communications Security (CCS'18), Toronto, Canada (16 Pages)
Conference Date: 2018/10
Paper
Published
Refereed?: Yes, Invited?: Yes
2. Han, X, Pasquier, T., Seltzer, M. (2018). Provenance-based Intrusion Detection: Opportunities and Challenges. *Proceedings of the Workshop on the Theory and Practice of Provenance (TAPP 2018)*. Workshop on the Theory and Practice of Provenance (TAPP 2018), London, United Kingdom (4 pages)
Conference Date: 2018/7
Paper
Published
Refereed?: Yes, Invited?: Yes

3. Huang, Y, Pavlovic, M., Marathe, V., Seltzer, M., Harris, T., Byan, S. (2018). Closing the Performance Gap Between Volatile and Persistent Key-Value Stores Using Cross-Referencing Logs. Proceedings of the 2018 USENIX Annual Technical Conference. 2018 USENIX Annual Technical Conference, Boston, United States (13 pages)
Conference Date: 2018/6
Paper
Published
Refereed?: Yes, Invited?: No
4. Angelina, E., Larus-Stone, N, Alabi, D., Seltzer, M, Rudin, C. (2017). Learning Certifiably Optimal Rule Lists for Categorical Data. Proceedings of the 23rd ACM Conference on Knowledge Discovery and Data Mining (KDD2017). 23rd ACM Conference on Knowledge Discovery and Data Mining (KDD2017), Halifax, Canada
Conference Date: 2017/8
Paper
Published
Refereed?: Yes, Invited?: No
5. Yang, H., Rudin, C., Seltzer, M. (2017). Scalable Bayesian Rule Lists. Proceedings of the International Conference on Machine Learning (ICML 2017). International Conference on Machine Learning (ICML 2017), Sydney, Australia
Conference Date: 2017/8
Paper
Published
Refereed?: Yes, Invited?: No
6. Xueyuan Han, Thomas Pasquier, Mark Goldstein, Margo Seltzer. (2017). FRAPPuccino: Fault-detection through Runtime Analysis of Provenance. HotCloud. Hot Topics in Cloud Systems, Santa Clara, United States
Conference Date: 2017/7
Paper
Published
Refereed?: Yes, Invited?: No
7. Thomas Pasquier, Xueyuan Han, Mark Goldstein, Thomas Moyer, David Eyers, Margo Seltzer, Jean Bacon. (2017). Practical Whole-System Provenance Capture. SOCC. Symposium on Cloud Computing, Santa Clara, United States
Conference Date: 2017/7
Paper
Published
Refereed?: Yes, Invited?: No
8. Virendra Marathe, Margo Seltzer, Steve Byan, Tim Harris. (2017). Persistent Memcached: Bringing Legacy Code to Byte-Addressable Persistent Memory. HotStorage. Hot Topics in Storage, Santa Clara, United States
Conference Date: 2015/7
Paper
Published
Refereed?: Yes, Invited?: No
9. Jacob Whitehill, Margo Seltzer. (2017). A Crowdsourcing Approach to Collecting Tutorial Videos -- Toward Personalized Learning-at-Scale. L@S. Learning at Scale, Cambridge, United States
Conference Date: 2015/4
Paper
Published
Refereed?: Yes, Invited?: No

10. Schuyler Eldridge, Jonathan Appavoo, Amos Waterland, Margo Seltzer. (2015). Towards General-Purpose Neural Network Computing. PACT. International Conference on Parallel Architectures and Compilation Techniques, Petrozavodsk, Russian Federation
Conference Date: 2015/9
Paper
Published
Refereed?: Yes, Invited?: No
11. Balakrishnan, N., Bytheway, T., Carata, L., Chick, O., Snee, J., Akoush, S., Sohan, R., Seltzer, M., Hopper, A. (2015). Recent Advances in Computer Architecture: The Opportunities and Challenges for Provenance. TaPP. Workshop on the Theory and Practice of Provenance, Edinburgh, United Kingdom
Conference Date: 2015/7
Paper
Published
Refereed?: Yes, Invited?: No
12. Macko, P., Margo, D., Marathe, V., Seltzer, M. (2015). LLAMA: Efficient Graph Analytics Using Large Multiversioned Arrays. Proceedings of the 31st IEEE International Conference on Data Engineering (ICDE 2015). 31st IEEE International Conference on Data Engineering (ICDE 2015), Seoul, Korea, Republic of
Conference Date: 2015/4
Paper
Published
Refereed?: Yes, Invited?: No
13. Appavoo, J., Waterland, A., Eldridge, S., Zhao, K. Joshi, A., Homer, S., Seltzer, M. (2014). Programmable Smart Machines: A Hybrid Neuromorphic Approach to General Purpose Computation. Proceedings of the first workshop on Neuromorphic Architectures (NeuroArch), collocated with ISCA 20. First Workshop on Neuromorphic Architectures (NeuroArch),
Paper
Published
Refereed?: Yes, Invited?: No
14. Malvika Rao, David Parkes, Margo Seltzer, David Bacon. (2014). A Framework for Incentivizing Deep Fixes. WIT-EC. Workshop in Incentives and Trust in E-Commerce, Quebec City, Canada
Conference Date: 2014/7
Paper
Published
Refereed?: Yes, Invited?: No
15. Elaine Angelino, Eddie Kohler, Amos Waterland, Margo Seltzer, Ryan Adams. (2014). Accelerating MCMC via parallel predictive prefetching. UIA. Conference on Uncertainty in Artificial Intelligence, Quebec City, Canada
Conference Date: 2014/7
Paper
Published
Refereed?: Yes, Invited?: No
16. Jonathan Appavoo, Amos Waterland, Eldridge Schuyler, Sophia Zhao, Ajay Joshi, Steve Homer, Margo Seltzer. (2014). A Hybrid Neuromorphic Approach to General Purpose Computation. NeuroArch. Workshop on Neuromorphic Architecture, Minneapolis, United States
Conference Date: 2014/6
Paper
Published
Refereed?: Yes, Invited?: No

17. Amos Waterland, Elaine Angelino, Ryan Adams, Jonathan Appavoo, Margo Seltzer. (2014). ASC: Automatically Scalable Computation. ASPLOS. Conference on Architecture Support for Programming Languages and Operating Systems, Salt Lake City, United States
Conference Date: 2014/3
Paper
Published
Refereed?: Yes, Invited?: No
18. Michelle Borkin, Christine Yeh, Madelaine Boyd, Peter Macko, Krzysztof Gajos, Margo Seltzer, Hanspeter Pfister. (2013). Evaluation of Provenance Visualization Tools. Vis 2013. Conference on Information Visualization, Atlanta, United States
Conference Date: 2013/10
Paper
Published
Refereed?: Yes, Invited?: No
19. Peter Macko, Daniel Margo, Margo Seltzer. (2013). Local Clustering in Provenance Graphs. CIKM 2013. International Conference on Knowledge and Data Management, Burlingame, United States
Conference Date: 2013/10
Paper
Published
Refereed?: Yes, Invited?: No
20. Peter Macko, Daniel Margo, Margo Seltzer. (2013). Performance Introspection of Graph Databases. SYSTOR. SYSTOR (Israeli Systems and Storage Conference), Haifa, Israel
Conference Date: 2013/7
Paper
Published
Refereed?: Yes, Invited?: No
21. Waterland, A., Angelino, E., Cubuk, E., Kaziras, E., Adams, R., Appavoo, J., Seltzer, M. (2013). Computational Caches. Proceedings of SYSTOR. SYSTOR (Israeli Systems and Storage Conference), Haifa, Israel
Conference Date: 2013/7
Paper
Published
Refereed?: Yes, Invited?: No
22. David Holland, Elaine Angelino, Gideon Wald, Margo Seltzer. (2013). Flash Caching on theStorage Client. USENIX ATC. USENIX Annual Technical Conference, San Jose, United States
Conference Date: 2013/6
Paper
Published
Refereed?: Yes, Invited?: No

Intellectual Property

Patents

1. Graph Processing using a Mutable Multilevel Graph Representatoin. United States. 9734607.
Patent Status: Granted/Issued
Year Issued: 2017
Inventors: Peter Macko, Virendra Marathe, Margo Seltzer