

Anastasios Sidiropoulos

Curriculum Vitae

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Greek Citizenship

Research Interests Approximation Algorithms, Geometric Algorithms, Streaming Algorithms, Discrete Mathematics, Graph Theory, Complexity Theory, Randomized Algorithms, Topological Methods in Discrete Mathematics.

Education

- 2005-present, Massachusetts Institute of Technology. Ph.D in Computer Science.
Expected date of graduation: June 2008.
Advisor: Piotr Indyk
- 2003-2005, Massachusetts Institute of Technology. MSc in Computer Science.
Advisor: Piotr Indyk
- 1997-2002, University of Patras, Greece. Diploma in Computer Engineering & Informatics.
Advisor: Christos Kaklamanis

Work Experience

- Summer 2006 and summer 2007, Internship at Google Inc., New York, NY.
Host: Jon Feldman

Teaching Experience

- Spring semester 2006-2007, Teaching assistant in MIT, *Geometric Computing*.
Instructor: professor Piotr Indyk (E-mail: indyk@theory.csail.mit.edu).
- Fall semester 2005-2006, Teaching assistant in MIT, *Advanced Algorithms*.
Instructor: professor David Karger (E-mail: karger@theory.csail.mit.edu).
- Spring semester 1999-2000, Undergraduate Teaching Assistant in the University of Patras, *Computer Architecture Laboratory*.
Instructor: professor D. Nikolos (E-mail: nikolosd@ceid.upatras.gr).

Publications

- Krzysztof Onak, Anastasios Sidiropoulos.
Circular Partitions with Applications to Visualization and Embeddings.
In Proc. of the 24th Annual ACM Symposium on Computational Geometry (SoCG 2008).
- Jon Feldman, S. Muthukrishnan, Anastasios Sidiropoulos, Cliff Stein, Zoya Svitkina.
On Distributing Symmetric Streaming Computations.
In Proc. of the 19th ACM-SIAM Symposium on Discrete Algorithms (SODA 2008), to appear.
- Piotr Indyk, Anastasios Sidiropoulos.
Probabilistic Embeddings of Bounded Genus Graphs Into Planar Graphs.
In Proc. of the 23rd Annual ACM Symposium on Computational Geometry (SoCG 2007).

- Mihai Badoiu, Piotr Indyk, and Anastasios Sidiropoulos.
Approximation Algorithms for Embedding General Metrics Into Trees.
In Proc. of the 18th ACM-SIAM Symposium on Discrete Algorithms (SODA 2007).
- Mihai Badoiu, Julia Chuzhoy, Piotr Indyk, and Anastasios Sidiropoulos.
Embedding Ultrametrics Into Low-Dimensional Spaces.
In Proc. of the 22nd Annual ACM Symposium on Computational Geometry (SoCG 2006).
- George Christodoulou, Vahab S. Mirrokni, and Anastasios Sidiropoulos.
Convergence and Approximation in Potential Games.
In Proc. of the 23rd Symposium on Theoretical Aspects of Computer Science (STACS 2006).
- Mihai Badoiu, Julia Chuzhoy, Piotr Indyk, and Anastasios Sidiropoulos.
Low-Distortion Embeddings of General Metrics Into the Line.
In Proc. of the ACM Symposium on Theory of Computing (STOC 2005).
- Noga Alon, Mihai Badoiu, Erik Demaine, Martin Farach-Colton, MohammadTaghi Hajiaghayi, and Anastasios Sidiropoulos.
Ordinal Embeddings of Minimum Relaxation: General Properties, Trees, and Ultrametrics.
In Proc. of the ACM-SIAM Symposium on Discrete Algorithms (SODA 2005).
Journal version: ACM Transactions on Algorithms, to appear.
- Mihai Badoiu, Kedar Dhamdhere, Anupam Gupta, Yuri Rabinovich, Harald Raecke, R. Ravi, and Anastasios Sidiropoulos.
Approximation Algorithms for Low-Distortion Embeddings Into Low-Dimensional Spaces.
In Proc. of the ACM-SIAM Symposium on Discrete Algorithms (SODA 2005).
- Ioannis Caragiannis, Christos Kaklamanis, Pino Persiano, and Anastasios Sidiropoulos.
Fractional and Integral Coloring of Locally-Symmetric Sets of Paths on Binary Trees.
In Proc. of the 1st Workshop on Approximation and On-line Algorithms (WAOA 2003), LNCS 2909, Springer, pp. 81-94, 2003.

Submitted Manuscripts

- Anastasios Sidiropoulos.
On the Computational Near-Optimality of Random Projection.
- Christiane Lammersen, Anastasios Sidiropoulos and Christian Sohler.
Streaming Embeddings with Slack.
- Mihai Badoiu, Erik Demaine, MohammadTaghi Hajiaghayi, Anastasios Sidiropoulos, Morteza Zadimoghaddam.
Ordinal Embedding: Approximation Algorithms and Dimensionality Reduction.

Fellowships and Awards

- 2003-2005 (1st-2nd year of graduate studies) Fellowship of the Alexandros S. Onassis Public Benefit Foundation.
- 2003-2004 (1st year of graduate studies) Paris Kanellakis Fellowship.
- 2002 Ranked 1st among all students of the School of Engineering (5 Departments) of the University of Patras, who graduated in November 2002.
- 1999-2002 (3rd-5th year of undergraduate studies) Scholarship Beneficiary of Greek National Scholarship Foundation (IKY) for superior academic performance.

- 1995 Bronze medal in the 5th Balkan Olympiad in Informatics.
- 1995 Member of the Greek team in the 7th International Olympiad in Informatics.
- 1995 2nd place in the Greek Olympiad in Informatics.

Recommendations

- **Erik Demaine**
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- **Jon Feldman**
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- **S. Muthu Muthukrishnan**
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- **Clifford Stein**
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