

## Svetlozar Evtimov Nestorov

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### Work Experience

2001-2007 (on leave 2003-2005): Assistant Professor in Computer Science, **The University of Chicago**. Taught courses in databases, computer systems and programming to over 200 students. Developed and taught courses in data mining. Collaborated with professors and researchers in Business, Economics, Biology, Physics, and Medicine. Recent projects include an automated update framework for a genome annotation and function prediction system; and a collaborative filtering and tagging infrastructure for the social sciences.

2003-2005: Co-founder and President of Technology, **Mobissimo Inc.**

While on leave from the University of Chicago, co-founded Mobissimo, a travel search engine, which was chosen as one of the 50 coolest web sites by Time Magazine in 2004. Designed and implemented the alpha (prototype) version of the site. Secured a \$1.1M seed round from three venture capital firms. Assembled a team of five software engineers and led the development of a scalable and extensible platform for extracting and integrating information from over 100 travel sites including airlines and hotels.

1995-2000: Research Assistant, InfoLab, **Stanford University**

Participated in several projects in the areas of data mining, semistructured data and information integration. Pioneered research in extracting explicit structure from semistructured data. Collaborated with the founders of Jungle and Google.

1998 (summer): Software Engineer, **Hitachi America Ltd.**

Designed and implemented data mining algorithms for relational data. Performed experiments with real-world medical data using Oracle and MySQL.

1994 (summer): Software Engineer, **BARRA Inc.**

Participated in the development of software for portfolio optimization and risk characterization.

1993-1994: Robotics Lab, **Stanford University**.

Participated in the development of the Machine Learning Library in C++ (MLC++).

### Education

Ph.D. in Computer Science, June 2000, Stanford University

Dissertation: Data Mining Techniques for Structured and Semistructured Data

Advisor: Jeffrey Ullman

M.S. in Computer Science, GPA 4.0, June 1997, Stanford University

B.S. in Computer Science and Mathematics, GPA 3.8, June 1994, Stanford University

### Honors

2002-2004: Academic Technology Innovation (ATI) grant for \$20,000. The University of Chicago. Developed, with Ali Hortacsu, an Economics professor, an online auction environment for instructional and research purposes. The auction environment was also used at the Department of Economics at Harvard.

1993-1994: Frances Morgan Swain Scholarship, Stanford University, awarded for academic excellence to one senior majoring in Mathematics.

1993: All US 12<sup>th</sup> place, Putnam Mathematical Competition, awarded for superior performance in this contest, which test originality as well as technical competence, for college student in the US and Canada.

1991, 1992: First prize, Bulgarian Mathematical Olympiad

1989: First prize, Balkan Mathematical Olympiad

### **Professional Activities**

1. Program committee member, International Conference on Data Mining (ICDM) 2007
2. Keynote presentation at Travdex: The Travel Technology and Think Tank Conference 2005, Dallas, TX.
3. Program committee member, ACM SIGMOD Conference 2005
4. Presented a tutorial (with N. Jukic) Business Intelligence Foundation: Data Warehousing and Data Mining at HICSS Conference 2004
5. Program committee member for International Conference on Very Large Databases (VLDB) 2002
6. Program committee member, International Workshop of Knowledge Discovery and Data Mining in the World-Wide Web, 2000
7. Reviewer for IEEE Transactions on Knowledge and Data Engineering journal (TKDE) 1999-2002

### **Publications**

1. S. Nestorov, C. Liu and I. Foster, Efficient Processing of Relational Queries with Sum Constraints, APWeb/WAIM, Huangshan, China, June 2007.
2. N. Jukic and S. Nestorov, Comprehensive Data Warehouse Exploration with Qualified Association-Rule Mining, Journal of Decision Support Systems, vol. 41, no 2. 2005.
3. N. Jukic, S. Nestorov, S. Vrbsky, and A. Parrish, Enhancing Database Access Control by Facilitating Non-Key Related Cover Stories, Journal of Database Management, vol. 16, no. 3, 2005.
4. S. Nestorov and N. Jukic, Ad-Hoc Association-Rule Mining within the Data Warehouse, HICSS 2003, Big Island, HI.
5. S. Nestorov and D. Tsur, Integrating Data Mining with Relational DBMS: A Tightly-Coupled Approach, NGITS 1999, Zikhron-Yaakov, Israel
6. D. Tsur, J. Ullman, C. Clifton, S. Abiteboul, R. Motwani, S. Nestorov and A. Rosenthal, Query Flocks: A Generalization of Association-Rule Mining, ACM SIGMOD Conference 1998, Seattle, Washington
7. S. Nestorov, S. Abiteboul and R. Motwani, Extracting Schema from Semistructured Data, ACM SIGMOD Conference 1998, Seattle, Washington
8. S. Nestorov, S. Abiteboul and R. Motwani, Inferring Structure from Semistructured Data, SIGMOD Record (Special Issue on Management of Semistructured Data), 1997
9. J. Hammer, M. Breunig, H. Garcia-Molina, S. Nestorov, V. Vassalos and R. Yerneni, Template-Based Wrappers in the TSIMMIS System, ACM SIGMOD Conference } 1997, Tucson, Arizona
10. S. Nestorov, J. Ullman, J. Wiener and S. Chawathe, Representative Objects: Concise Representations of Semistructured, Hierarchical Data, ICDE Conference 1997, Birmingham, England
11. D. Quass, J. Widom, R. Goldman, K. Haas, Q. Luo, J. McHugh, S. Nestorov, A. Rajaraman, H. Rivero, S. Abiteboul, J. Ullman and J. Wiener, LORE: A Lightweight Object REpository for Semistructured Data, ACM SIGMOD Conference 1996, Montreal, Canada

### **Languages**

Bulgarian (native), English (fluent), Russian (good), French (basic)