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Research Interests

Parallel Processing (GPU & CPU), Cloud Computing (MapReduce), Graph Algorithms, Privacy in Social Networks

Education

- Ph.D. in Computer Science** (2008-2012)
 Department of Computer Science - School of Computing, [National University of Singapore](#)
 Thesis: [Scalable Data-Parallel graph algorithms from generation to management](#)
 Advisors: Associate Prof. [Stéphane Bressan](#), Assistant Prof. [Panagiotis Karras](#)
 Total GPA: 4.8/5 (A)
- B.S. in Computer Engineering** Software Engineering (*Summa Cum Laude*) (2004-2008)
 Department of Computer Engineering, [Iran University of Science & Technology](#)
 Thesis: *DEJ: a Mechanism against Phishing based on Two Way authentications*
 Advisor: Associate Prof. [Mohsen Sharifi](#)
 Total GPA: 17.57/20 (First Grade)
- Diploma** Mathematics and Physics (2003)
[Atomic Energy \(Energy Atomy\) High-School](#), Tehran, Iran
 Total GPA: 19.84/20 (First Grade)

Coursework

- [CS5322](#), Databases Security, [Panos Kalnis](#) A+ (2008-2009)
- [CS5220](#), Databases and the Web, [Chee Yong Chan](#) A+ (2008-2009)
- [CS5201](#), Foundation in Theoretical CS, [Jin Song Dong](#) A+ (2008-2009)
- [CS5202](#), Foundation in Computer Systems, [OOI Wei Tsang](#) A+ (2008-2009)
- [CS5228](#), Knowledge Discovery in Database, [Hsu, Wynne](#) A (2008-2009)
- [CS6230](#), Advance Topics in Information Security, [Liang Zhenkai](#) A- (2008-2009)
- [CS6281](#), Special Topics in Computer Science: The Art of Doing Research, [David Hsu](#) B+ (2008-2009)
- [CS5226](#), Database Tuning, [Tan Kian-Lee](#) A (2009-2010)
- [CS5264](#), Decision Making Technology, [Rudy Setiono](#) B+ (2009-2010)
- [CS5225](#), Parallel and Distributed Database Systems, [M. Tamer Özsu](#) A (2010-2011)
- [CS471](#), Advanced Multiprocessor Architecture, [Babak Falsafi](#) Auditing (2011-2012)

Employment

- Visiting Ph.D. Candidate** Employer: Prof. [Anastasia Ailamaki](#) (2011-2012)
 School of Computer and Communication Sciences, [EPFL](#), Switzerland
[Blue Brain Project](#)
- SINGA PhD Scholar** Employer: Associate Prof. [Stéphane Bressan](#) (2008-2012)
 School of Computing, [National University of Singapore](#)
 Database Research lab
- DBMS expert** (2009-2010)
 Developing an online DBA monitoring dashboard that suggests and tunes the parameters of the Oracle DBMS
 School of Computing, [National University of Singapore](#)
- Hardware designer** (2007-2008)
 Designing a factory automation system with online management ability via mobile and web
 Department of Computer Engineering, [Iran University of Science & Technology](#)
- Software engineer** (2005-2007)
 Developing a stock manager software with secure authentication
[Aryasahm](#) Trading Company
- Software architect** (2005-2006)
 Designing a file server repository for mobile and desktop end users using a Service Oriented Architecture (SOA)
 Department of Computer Engineering, [Iran University of Science & Technology](#)

Teaching Experience

Instructor:

- [Discrete-event System's Simulation](#), [Department of Computer Engineering](#), [Sharif University of Technology](#) (2012-2013)
[Introduction to Database systems](#), [Department of Computer Engineering](#), [Sharif University of Technology](#) (2012-2013)

Teaching assistant:

- GP-GPU, [K. Lim Low](#), [School of Computing](#), [National University of Singapore](#) (2010-2011)
Operating Systems, [R. Yap Hock Chuan](#), [School of Computing](#), [National University of Singapore](#) (2009-2010)
PhD Qualification Exam, [School of Computing](#), [National University of Singapore](#) (2008-2009)
Operating Systems, [M. Sharifi](#), [Department of Computer Engineering](#), [Iran University of Science & Technology](#) (2007-2008)

Publications

International peer-reviewed conferences:

1. **S. Nobari**, F. Tauheed, T. Heinis, P. Karras, S. Bressan, A. Ailamaki, "TOUCH: In-Memory Spatial Join by Hierarchical Data-Oriented Partitioning", ACM SIGMOD'13, New York, USA.
2. Y. Song, P. Karras, **S. Nobari**, G. Cheliotis, M. Xue, and S. Bressan, "Discretionary Social Network Data Revelation with a User-Centric Utility Guarantee", ACM CIKM'12, Hawaii, USA.
3. **S. Nobari**, C. Tung, P. Karras, and S. Bressan, "Scalable Parallel Minimum Spanning Forest Computation", ACM PPOPP'12, New Orleans, USA.
4. Y. Song, **S. Nobari**, X. Lu, P. Karras, S. Bressan, "On the Privacy and Utility of Anonymized Social Networks", ACM iiWAS'11, Ho Chi Minh City, Vietnam.
5. R. Tang, H. Wu, **S. Nobari**, S. Bressan, "Edit Distance between XML and Probabilistic XML Documents", Springer DEXA'11, Toulouse, France.
6. **S. Nobari**, X. Lu, P. Karras, and S. Bressan, "Fast random graph generation", ACM EDBT '11, Uppsala, Sweden.
7. **S. Nobari**, S. Bressan, and C. Raïssi, "A data parallel minimum spanning tree algorithm for most graphics processing units", Global Science & Technology Press ADPC '10, Singapore.
8. M. Zamani, H. Nejati, A. T. Jahromi, A. Partovi, **S. Nobari**, G. N. Shirazi, "Toolbox for Interval Type-2 Fuzzy Logic Systems", Atlantis Press JCIS-2008, Shandong, China.

International peer-reviewed journals:

9. **S. Nobari**, X. Lu, A. Cuzzocrea, P. Karras, S. Bressan "An Effective and Efficient Parallel Approach for Random Graphs Generation over GPUs", Journal of Parallel and Distributed Computing, 73(3): 303-316 (2013).
10. **S. Nobari**, C. Tung, P. Karras, and S. Bressan, "Scalable Parallel Minimum Spanning Forest Computation", Journal of ACM SIGPLAN Notices, 47(8): 205-214 (2012).
11. Y. Song, X. Lu, **S. Nobari**, S. Bressan, P. Karras, "On the Privacy and Utility of Anonymized Social Networks", Journal of Adaptive, Resilient and Autonomic Systems, 4(2): 1-34 (2013).

Under review:

12. **S. Nobari**, P. Karras, and S. Bressan, "L-opacity: Linkage-aware graph anonymization"
13. **S. Nobari**, C. Tung, G. Xiang, N. Xuan, "An approach to distributed system for computing minimum spanning tree"
14. **S. Nobari**, X. Lu, S. Pathak, "YAQ: Yet Another equivalent Query via SVM"

Service

- Program Committee of [DATA ANALYTICS'13](#) and [DATA ANALYTICS'12](#)
External reviewer of [SIGKDD'12](#), [PAKDD'11](#) and [VLDB'10](#)
Web chair of [SSDBM'12](#), [ISSD'07](#) (Conference of Industry, Student and Sustainable Development)
Student volunteer of [VLDB'11](#)
Outreach visit with professors of the CS dept of [NUS](#) at 8 universities in Iran in 2011
Organizing and giving talk for PhD scholars of SINGA intake 2011

Invited Talks and Academic Visits

- [Rutgers University](#), [Panagiotis Karras](#) Feb 2012
[New York University](#), [Dennis Shasha](#) Feb 2012
[University of Trento](#), [Yannis Velegarakis](#) Jan 2012
[Shiraz University](#) and [Yazd University](#) Apr 2011
[The University of Hong Kong](#), [Nikos Mamoulis](#) Dec 2010

Professional Memberships

- ACM professional member (Since 2011)
[Iran's National Elites Foundation](#) (Since 2008)
Scientific Association of the CE dept, [IUST](#) (2005-2008)
Talent and Innovation Guiding Council of [IUST](#) (2004-2008)

Honours and Awards

Certificate of 3rd Place in Startup Weekend Singapore	2012
Certificate of 3rd Place & Audience Choice award from Elsevier/NUS in SGCodeJam24	2011
Semi-Finalist of Microsoft Imagine Cup Singapore (Software Design), team Boldozer	2009
Award for graduating first among the students of CE dept, IUST	2008
Certificate of 3rd Place in Robocup Soccer Simulation League, the world cup in Germany	2006
Certificate of 2nd Place in Rescue Simulation, 3rd Place in 3D Soccer Simulation of IranOpen	2006
Certificate of 1rd Place in Rescue Simulation of Allameh Helli	2006
Certificate of Achievement in ACM-ICPC	(2006-2007)
Academic Excellence Award at IUST	(2005-2007)

Programming Skills

C++, Java, C#, .Net, Javascript, JQuery, GPU programming, python, SQL, php, Assembly language

Other Qualifications

Short courses:

Breakthrough Thinking, EPFL	(2011-2012)
High Performance Computing, by University of Illinois at Urbana-Champaign in Advanced Digital Sciences Center	(2010-2011)
Information Integration, by University of Illinois at Urbana-Champaign in Advanced Digital Sciences Center	(2010-2011)
International Transferable Research Skills, by Imperial College London in National University of Singapore	(2009-2010)
National service obligations fulfilled by lecturing at Sharif University of Technology	(2012-2013)

Hobbies:

Piano, Guitar; Biking, Swimming, Table-Tennis & Football

Languages

English (upper intermediate level, Cavendish College of London), **French** (intermediate level, [Iran Language Institute -ILI](#)), **Arabic** (intermediate, high school) and **Farsi** (native)

References

Professor Anastasia Ailamaki, EPFL ,	anastasia.ailamaki@epfl.ch
Associate Professor Stéphane Bressan, National University of Singapore ,	steph@nus.edu.sg
Assistant Professor Panagiotis Karras, Rutgers University ,	karras@business.rutgers.edu
Professor Nikos Mamoulis, The University of Hong Kong ,	nikos@cs.hku.hk
Professor Dennis Shasha, New York University ,	shasha@cs.nyu.edu
Associate Professor Tan Tiow Seng, National University of Singapore ,	dcstants@nus.edu.sg
Assistant Professor Yannis Velegarakis, University of Trento ,	velgias@disi.unitn.eu
Professor M. Tamer Özsu, University of Waterloo ,	tamer.ozsu@uwaterloo.ca

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