Abolfazl Asudeh

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EDUCATION

Ph.D. Student, Computer Science
University of Texas at Arlington,2011/12 - present
advisors: Dr. Gergely Zruba and Dr. Chengkai Li
GPA: 4.0/4.0;

Master of Science, Computer Engineering-Software
Sharif University of Technology, Tehran, Iran, 2006 - 2008
advisor: Dr. Ali Movaghar
Thesis:"Analysis and Improvement of Hierarchical Routing Protocols in Wireless Sensor Networks";

Bachelor of Science, Computer Engineering-Software
Sh. Sattari University, Tehran, Iran, 2002 - 2006
Thesis: "Analysis, Design and Implementation of a Communication Website: integrated Mail, News, File-sharing and Chat";

RESEARCH INTERESTS

Crowdsourcing and Human Computation
Large-scale Knowledge Graph and Information Retrieval
Network Algorithms, Wireless Sensor Networks
Design and Analysis of Algorithms

PUBLICATIONS

Ning Yan,*Abolfazl Asudeh*, Chengkai Li, *Generating Preview Tables for Entity Graphs*, submitted to WWW14.
Abolfazl Asudeh, Gergely Zruba, and Sajal K. Das, *A Generic Model for MAC protocol selection in Sensor Networks*, submitted to Pervasive and Mobile Computing Journal, 2014.
Abolfazl Asudeh and Ali Movaghar, *MEHR: Multi-hop Energy-aware Hierarchical Routing for wireless sensor networks* New Technologies, Mobility and Security, 2008, NTMS'08, IEEE, 2008.
Abolfazl Asudeh, Ali Shiralinia, and Mohammad Ghodsi, *Accessing Maximum Network Flow in Wireless Sensor Networks with Directed Antenna*, (in Persian) 13th CSI Computer Conference (CSICC'2008), Sharif University of Technology, March 9-11, 2008, Kish Island, Persian Gulf, Iran.
Abolfazl Asudeh and Ali Movaghar, *CEHR: Cluster-based Energy-aware Hierarchical Routing protocol for wireless sensor networks*, Sharif University of Technology, Technical report, 2009.

AWARDS

Enhanced Graduate Teaching Assistant fellowship (EGTA), University of Texas at Arlington, Jan. 2012 present.
STEM tuition fellowship, University of Texas at Arlington, Jan. 2012 present.

RESEARCH PROJECTS

Crowdsouring

- *Crowd Consensus*: We are working on the novel problem of finding skyline/top-k objects on multidimensional data using pairwise crowd questions.
- *Missing data prediction in knowledge graph*: Considering the missing edges in knowledge graph, we use crowd for predicting the (i) existance of an edge (ii) the value of the edge.

Knowledge Graph / Information Retrieval

- *Keyword query to query graph in knowledge graph*: considering the difficulties of producing the query graph as the search input our aim is producing the query graph using the user input (keyword).
- *Preview Table for the knowledge graph*: we look for a set of tables (nodes in the graph) and attributes (edges) that summarizes a (complex) knowledge graph.

Wireless Sensor Networks

- *A generic Model for MAC protocol selection in sensor networks*: We present a scalable model for selecting a MAC protocol for WSNs based on requirements, application and the context.

TEACHING EXPERIENCE

Teacher Assistant, University of Texas at Arlington

- CSE1310, Introduction to Computers and Programming, Spring 2012, Summer 2013.
- CSE5331/4331, Data Base 1, Summer 2012, Summer 2013.
- CSE5301, Data Modeling, Fall 2012, Fall 2013.
- CSE1301, Computer Literacy, Fall 2012, Spring 2013, Fall 2013.

Instructor, Azad University, Payame Noor University, and University of Applied Science and Technology: I have taught the following list of courses for at least one semester: Computer Networks, Principles of Algorithms,OO Programming(C++), Data Base, System Analysis and Design, Assembly Language, Principles of Network Security, Principles of Programming, Advanced Programming 1, Internet Engineering, Basics of C# Language, and Web Programming.

RELATED COURSES

Sharif University of Technology (M.Sc.): Network Modeling and Analysis, Advanced Algorithms, OS2, Data Mining, Software Engineering, DSS, OOSD Methodologies, Database2.

University of Texas at Arlington (Ph.D.): Data Modeling (CSE5301), Advanced Sensor Networks (CSE 6348), Security2 (CSE 5381), Data Mining (CSE5334), Multi-agent Systems (Game Theory) (CSE6369), Graph Data Mining (CSE 6339).

SKILS

Programming Languages: Assembly, C, C++, C# and a little about some other languages.
Web Programming: JavaScript, ASP.NET.
Database: SQL Server.

REFERENCES

Dr. Gergely Zruba, http://crystal.uta.edu/ zaruba/
Dr. Chengkai Li, http://ranger.uta.edu/ cli/