

Ulas Bardak

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Objective

My main interest is applying my experience in various areas of computer science, including my thesis research on information elicitation, to creating and improving software in practical use.

Education

Carnegie Mellon University

Ph.D. in Language Technologies, School of Computer Science

QPA: 3.90 / 4.00

Thesis title: Information Elicitation in Scheduling Problems

Relevant courses: Natural Language Processing Lab, Interactive Dialog Systems Lab

Pittsburgh, PA

August 2007

Carnegie Mellon University

M.Sc. in Language Technologies, School of Computer Science

QPA: 3.85 / 4.0

Relevant courses: Algorithms For Natural Language Processing, Grammars and Lexicons, Information Retrieval, Software Engineering for Information Technology, Speech Recognition, Machine Learning(Ph.D. level), Machine Translation, Perceptive Computing

Pittsburgh, PA

May 2003

Carnegie Mellon University

B.Sc. in Computer Science with a minor in Physics

QPA: 3.67 / 4.0 Graduated with University Honors and College Research Honors

Relevant courses: Senior Thesis in CS; Systems Level Programming; Artificial Intelligence Representation and Problem Solving; Robotic Manipulation; Algorithms; Networks; Basic Logic; Modern Mathematics; Mathematical Foundations of Computer Science; Probability and Random Processes; Multimedia Information Processing

Pittsburgh, PA

May 2001

Experience

StumbleUpon Inc.

Senior Research Engineer

My work primarily focuses on improving the recommendation engine, working on various aspects of the system from the page classifier to the actual recommendations.

San Francisco, CA

October 2010 - Now

SECOM Corporation, Intelligent Systems Lab

Research Engineer

I worked as the only full-time international researcher working in the research lab of the biggest security company in Japan. My work included designing and implementing a complete replacement scheduling system that will be more scalable, web based, will learn from user interaction in order to improve the quality of the produced schedules, based on newer technologies such as Silverlight and .NET.

Tokyo, Japan

October 2007 - September 2010

Microsoft Corporation

Software Development Engineer

Working in the Natural Language Group, I designed and implemented a tool for deriving synonyms/correlated words from corpora including a corpus I built. Sources included automatically crawling a clients website as well as techniques for augmenting a larger corpus with a smaller specialized corpus in order to get better domain specific results.

Redmond, WA

Summer 2002

Projects and Startups

Mindkin: (2006-now, co-founder) Unifying social networking with gaming, developed in

ASP.net and AJAX. Mindkin LLC founded in 2007. Named as one of the inventors in the patent application.

Radar: (2003-2007) Research project aimed at building an automated personal assistant that learns primarily working on developing novel information elicitation techniques.

Circa: (2002-2003, co-founder) Online collaboration tool developed in Java and Flash.

Clair: (2001-2003) Research project about multimedia question answering through data mining from web pages.

Terminal Time: (2001-2002) Interactive story generation based on audience feedback (as a part of Senior Thesis in Computer Science at Carnegie Mellon University).

Publications

U. Bardak, S. Hasegawa, K. Mishima, and Y. Shinoda. *Automated Scheduling of Volunteers Through Adopting a Nurse Scheduling Infrastructure*. Proceedings of the Japan Society of Security Management 24, September 2010. ISSN: 1343-6619.

U. Bardak, S. Hasegawa, T. Saito. *Pointfix: Learning from Fixing Individual Condition Violations*. 2009 IEEE Symposium on Computational Intelligence in Scheduling.

U. Bardak. *Information Elicitation for Improving Optimization: Applications in Scheduling Problems*, VDM Verlag. August 2008. ISBN: 3639079086.

U. Bardak, E. Fink, C. R. Martens, and J. G. Carbonell. *Scheduling with uncertain resources: Elicitation of additional data*. IEEE International Conference on Systems, Man, and Cybernetics 2006.

U. Bardak, E. Fink, and J. G. Carbonell. *Scheduling with uncertain resources: Representation and utility function*. IEEE International Conference on Systems, Man, and Cybernetics 2006.

(Best Student Paper Finalist)

E. Fink, U. Bardak, B. Rothrock and J. G. Carbonell. *Scheduling with uncertain resources: Collaboration with the User*. IEEE International Conference on Systems, Man, and Cybernetics 2006.

Eugene Fink, Matt Jennings, Ulas Bardak, June Oh, Stephen F. Smith, and Jaime G. Carbonell. *Scheduling with uncertain resources: Search for a Near-Optimal Solution*. IEEE International Conference on Systems, Man, and Cybernetics 2006.

Y. Cai, Y. Hu, M. Siegel, U. Bardak, A. Venugopal, S. Gollapalli (2003) *Onboard Feature Indexing from Satellite Lidar Images*. IEEE International Workshop on ADC Modeling and Testing 2003.

Ashish Venugopal, U. Bardak, V. Pedro and S. Gollapalli (2002) *Innovations in Community Building Groupware*. IADIS International Conference WWW/Internet 2002.

Awards

Publication selected as Best Student Paper finalist for IEEE SMC 2006.

Honor Delegate of International Academy of Achievement 2003. *Siebel Scholar* 2003.

LTI Teaching Scholarship at CMU which covered my tuition during M.Sc.

Included in the *Deans List of School of Computer Science* in Carnegie Mellon for Fall 1997, Spring 1999, Fall 1999, Spring 2000, Fall 2000 and Spring 2001.

Granted Full Scholarship by *CyprusAmerica Scholarship Program* through *Cyprus Fullbright Commission*.

Accepted for membership and is a member of *National Society of Collegiate Scholars*.

Skills

Computer Languages: C#, Silverlight, Java, PHP, C, C++

Human Languages: English, Turkish, Japanese (intermediate JLPT Level 3 passed)

Platforms: OSX, Microsoft Windows 3.1-7, various Unices