SEYED HOSSEIN KAFFASH BOKHARAEI

Computer Networks Research Group
University of Toronto
Department of Computer Science
5214, 40. St George St.
Toronto, ON, Canada

Voice: (647) 938-5628
E-mail: hossein@cs.toronto.edu
www.cs.toronto.edu/~hossein

RESEARCH INTERESTS

My research interests are in the general area of computer networking, including online social networks, network measurement, network security and peer-to-peer networks. I am also interested in graph theory and theoretical analysis of networking protocols.

EDUCATION

May. 2010 – Present	**University of Toronto**, Toronto, ON, Canada Ph.D. in Computer Science Advisor: Prof. Yashar Ganjali
Sep. 2008 – Apr. 2010	**University of Toronto**, Toronto, ON, Canada M.Sc. in Computer Science Thesis: Towards Spam Free Telephony Networks Advisor: Prof. Yashar Ganjali GPA: 4.2/4.
Sep. 2004 – Aug. 2008	**Sharif University of Technology**, Tehran, Iran B.Eng. in Computer Engineering Thesis: Efficient Neighbor Selection for Video Streaming in Mesh-Based P2P Networks GPA:18.3/20

RESEARCH EXPERIENCES

Sep. 2008 – Present	**Computer Networks Research Group, University of Toronto** Spam Detection in IP Telephony: unwanted and commercial calls are becoming more and more popular by using VoIP. In this project our goal is to identify and block spammers by using human conversation patterns and social network analysis.
Jan. 2007 – July 2008	**Digital Media Lab (DML), Sharif University of Technology** Efficient Neighbor Selection for Video Streaming in Mesh-Based P2P

Networks: the goal of this project was to find a neighbor selection criteria in mesh-based P2P networks for video stream that minimizes the overall latency and maximizes the overall video quality of users.

Dec. 2006 – Dec. 2007 **Artificial Intelligence and Robotics Laboratory (AIRL), Sharif University of Technology**

Fast and Stable Locomotion Model for 4-Legged Robots: the goal of this project was to design a locomotion model for the Aibo robot that is fast and stable, and also minimizes the head movement.

TEACHING & WORK EXPERIENCES

Winter 2011 | Software Engineering Intern at Facebook, Palo Alto, CA.

Fall 2008 – Fall 2010 | Teaching Assistant at University of Toronto for: Data Structures and Analysis (twice), Software Tools and Systems Programming (twice), Introduction to Computer Programming.

Fall 2007 | Teaching Assistant at Sharif University of University for: Computer Networks.

Jan. 2006 – Aug. 2008 | Project manager and programmer in ARG Engineering Company.

July 2003 – Sep. 2004 | Instructor for International Olympiads in Informatics At Young Scholars Club.

Fall 2003 | Teaching at High School of Shahid Hasheminezhad: Fundamentals of Computer and Informatics, Pascal Programming Language.

PUBLICATIONS

2011 | S. H. Kaffash Bokharaei, A. Sahraei, Y. Ganjali, R. Keralapura, A. Nucci, *You can SPIT but you can't hide: Spammer Identification in Telephony Networks*, In proceedings of IEEE Infocom, April 2011.

2010 | S. H. Kaffash Bokharaei, A. Sahraei, *Towards Spam Free Telephony Networks*, M.Sc. Thesis, Department of Computer Science, University of Toronto.

2008 | S. H. Kaffash Bokharaei, Efficient Neighbor Selection for Video Streaming in Mesh-Based P2P Networks, B.Eng. Thesis, Sharif University of Technology.

2008 | N. Asadi, S. H. Kaffash Bokharaei, S. Bagheri Shouraki, S. H. Khasteh, H. R. Vaezi Joze, *3-Dimensional Ellipse-Based Trajectory Generation Model for 4-Legged Robots,* International Conference on Automation,

Robotics and Control Systems, Orlando, *FL, USA,* July *2008*.

2008	H. R. Vaezi Joze*,* N. Asadi, S. H. Kaffash Bokharaei, N. Zolghadr*, Impossibles & Autonomous 4-Legged Soccer Team on AIBO Platform,* International Conference on Automation, Robotics and Control Systems, Orlando, *FL, USA,* July *2008*.
2007	J. Habibi, H. R. Vaezi Joze, K. Mokhtarian, N. Asadi, A. Kamali, M. Safarnejad, N. Zolghadr, H. Kaffash Bokharaei, *Impossibles AIBO Four-legged, RoboCup 2007 Technical Report,* Robocup 2007, Atlanta, USA, 2007.
2007	H. R. Vaezi Joze, K. Mokhtarian, N. Asadi, A. Kamali, M. Safarnejad, N. Zolghadr, H. Kaffash Bokharaei, *Impossibles Architecture for Aibo Four-Legged Soccer in Robocup 2007,* Robocup 2007, Atlanta, USA, 2007

PRESENTATIONS

Nov. 2009	S. H. Kaffash Bokharaei, A. Sahraei, *Spam Detection in IP Telephony*, Research In Action 2009, Department of Computer Science of University of Toronto.
May. 2009	S. H. Kaffash Bokharaei, A. Sahraei, *Spam Detection in IP Telephony*, Research In Action 2009, Department of Computer Science of University of Toronto.

HONORS AND AWARDS

Mar. 2009	Ranked 1st in Cumulative GPA among 2008 graduates, Computer Engineering Dept., Sharif University of Technology.
Sep. 2008	Wolfond fellowship ($4,000), University of Toronto.
Sep. 2008	2 years guaranteed funding for M.Sc., University of Toronto ($28,000 per year).
June 2008	Ranked 3rd in Iran's National Graduate Studies Entrance Exam in Software Engineering major.
Dec. 2007	2nd Place of Regional Contest in ACM ICPC, as a member of Vj3 team, Asia region, Tehran site.
Dec. 2006	4th Place of Regional Contest in ACM ICPC, as a member of Vj13 team, Asia region, Tehran site.
Nov. 2005	5th Place of Regional Contest in ACM ICPC, as a member of VJ13 team,

Asia region, Tehran site.

Sep. 2004	International Silver medal of 16th IOI (Intl. Olympiad in Informatics), Athena, Greece.
Sep. 2003	National Gold medal of 13th INOI (Iran National Olympiad in Informatics), Tehran, Iran.
Sep. 2002	National Silver medal of 12th INOI (Iran National Olympiad in Informatics), Tehran, Iran.
Aug. 2000	1st Place in National Students' Robocup as a member of Arshia team, Tehran, Iran.
Sep. 1997	Selected for National Organization for Development of Exceptional Talents (NODET).

PROJECTS

Sep. 2010 – Present	SPITFilter – An Android application that identifies and blocks unwanted calls based on users' feedback.
Oct. 2008 – Sep. 2009	Capana – a real time VoIP capture and voice pattern analysis tool, Department of Computer Science, University of Toronto.
Sep. 2007	Design, Analysis and Implementation of Warehouse Manager as the final project of System Analysis and Design course at request of ARG Engineering Company, Computer Engineering Department, Sharif University of Technology (Instructor: Prof. J. Habibi).
Dec. 2006 – July 2007	Sony 4-legged Soccer Robotic League, Robotics World Cup 2007, Artificial Intelligence and Robotics Laboratory (AIRL), Sharif University of Technology (Instructor: Prof. J. Habibi).
Jan. 2007	Design and implementation of MiniJava compiler as the final project of Compiler Design course, Computer Engineering Department, Sharif University of Technology (Instructor: Prof. H. Abolhassani).
Jan. 2007 – Feb. 2007	Design and implementation of MiniOS as the optional project of Operating Systems Course, Computer Engineering Department, Sharif University of Technology (Instructor: Prof. R. Jalili).
July 2006 – Nov. 2007	Design and implementation of Traffic Manager, a traffic statistics organizer, reporter and simulator, in ARG Engineering Company.