Mozhgan Azimpourkivi

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Professional Summary: I am a PhD candidate in computer science at Florida International University. My research interest includes, machine learning, deep neural networks, verifiability in social media, mobile authentication, image data protection, usable security, and computational intelligence.

Education

2012-present	PhD Candidate in Computer Science (GPA 3.9) **Florida International University**
2012-2015	Master of Science in Computer Science (GPA 3.9) **Florida International University**
2009-2011	Master of Science in Information Technology (GPA 3.9) **Sharif University of Technology**
2005-2009	Bachelor of Science in Software Engineering (GPA 3.4) **Alzahra University**

Skills

Programming: Java, Python, SQL, Android Development, R, C, C++, C#

Web Development: HTML, PHP and JavaScript

Software Design: Enterprise Architecture, Rational Rose and Papyrus

Other Tools/Software: Tensorflow, Apache Hive, AWS, Matlab, Weka and Neo4j

Relevant Experience

October 2015 – December 2015

Data Science Intern | JWPlayer | New York

Reverse engineering ad-servers to find out whether the content (video) or the user is targeted by ad-servers, using the data of millions of ad pings and EM algorithm.
Investigating the metadata (text, etc.) of the targeted contents (using NLTK, word2vec and scikit-learn) to evaluate if there is a relationship between the metadata of videos and ad impression for over 5 different ad-servers.
Ad-impression forecasting using machine learning methods in Python.

Academic Experiences

Summer 2013 & 2014

NSF - DOD REU asset site graduate student mentor | Florida International University

"Social bot" and "Reducing social network risks for adolescents" projects

Fall 2012 – Spring 2015

Lab Instructor and Teaching Assistant | Florida International University

Java Programming, Computer Data Analysis, Introduction to Microcomputers, Introduction to Computer Security

Fall 2009 – Spring 2011

Teaching Assistant

Statistics and Probability for Engineers, Numerical Analysis

Publications

Journal Paper

M. Rahman**, M. Azimpourkivi**, U. Topkara, and Bogdan Carbunar "Video Liveness for Citizen Journalism: Attacks and Defenses", IEEE Transactions on Mobile Computing, May 2017.

I. Khalkhali, R. Azmi, **M. Azimpour-Kivi** and M. Khansari, "Host-based Web Anomaly Intrusion Detection System, an Artificial Immune System Approach," International Journal of Computer Science Issues, vol. 8, no. 5, Sep. 2011.

Book Chapter

R. Potharaju, B. Carbunar, **M. Azimpourkivi**, V. Vasudevan, S.S. Iyengar. "Infiltrating Social Network Accounts: Attacks and Defenses". Book chapter in Springer's Secure System Design and Trustable Computing, C.-H. Chang and M. Potkonjak (eds.), 2016.

Conference Paper

M. Azimpourkivi, U. Topkara, and Bogdan Carbunar "Camera Based Two Factor Authentication Through Mobile and Wearable Devices", Submitted to ACM MobiSys 2017.

B. Carbunar, M. Rahman, **M. Azimpour-kivi**, and D. Davis, "GeoPal: Friend Spam Detection in Social Networks Using Private Location Proofs", The IEEE International Conference on Sensing, Communication and Networking (SECON 2016), London, UK, June 2016.

M. Rahman, **M. Azimpour-kivi**, U. Topkara and B. Carbunar, "Liveness Verifications for Citizen Journalism Videos", In Proceedings of the 8th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec), New York City, June, 2015.

M. Azimpour-Kivi and R. Azmi, "Applying Sequence Alignment in Tracking Evolving Clusters of Web Sessions Data, an Artificial Immune Network Approach," in Third International Conference on Computational Intelligence, Communication Systems and Networks (CICSyN), Bali, Indonesia, 2011, pp. 42-47.

M. Azimpour-Kivi and R. Azmi, "A Webpage Similarity Measure for Web Sessions Clustering Using Sequence Alignment," in International Symposium on Artificial Intelligence and Signal Processing (AISP), Tehran, Iran, 2011, pp. 20–24.

M. Azimpour-Kivi, R. Azmi and S. Ghorbani Faal, "Artificial immune systems (AIS) for classification and its application to anomaly detection." in 4th Iran data mining Conference, Tehran, Iran, 2010.

Posters and Workshop

P. Jain, Sh. Chen, **M. Azimpourkivi,** D. H. Chau and B. Carbunar, "Spotting Suspicious Reviews via (Quasi-)clique Extraction", 36th IEEE Symposium on Security and Privacy, May 2015, San Jose, CA.

M. Azimpour-Kivi, U. Topkara, M. Rahman, B. Carbunar, "The Usability of a Mobile Device Liveness Analysis Application", The 21st Annual Network & Distributed System Security Symposium (NDSS 2014), 2014.

Khalkhali, H. Bazrafkan, M. Iranmanesh, G. Javadzadeh, **M. Azimpour-kivi**, "Security in Web applications, intrusion and prevention methods", 2nd Lahijan National Conference on Software Engineering (LNCSE), 2012, Iran.

Award and Honors

Best poster presentation award, Grad Student Appreciation Week 2016 Scholarly Forum. Florida International University.

M.Azimpourkivi, U. Topkara, and B. Carbunar, "It's on You: Trinket-based Mobile Authentication".