Mahdieh Zabihimayvan

Phone:(937) 397-8487
Home Page: https://zabihimayvan.github.io/website/

Resume updated on Dec. 2019
Email:
Zabihimayvan.2@wright.edu

Education

Ph.D., Computer Science (GPA:4.0) Wright State University, Dept. of Computer Science and Engineering, Dayton, Ohio, USA	*2017-2020*
M.S., Computer Engineering-Software (GPA:4.0) Imam Reza Intl. University, Dept. of Computer and Information Technology, Iran	*2012-2014*
B.S., Computer Engineering-Software Ferdowsi University, Dept. of Computer Engineering, Iran	*2007-2011*

Honors and Awards

Anita Borg Scholarship, Grace Hopper Celebration, Houston, Texas, 2018
CRA-W Scholarship, Grad Cohort Conference, San Francisco, California, 2018
Top M.Sc. Software Engineering student researcher, Intl. University of Imam Reza, 2017
Best paper award, "Detection of Web site visitors based on fuzzy rough sets", Intl. University of Imam Reza, 2016

Experience

Wright State University, Dayton, Ohio, USA — *2017-Present*
Graduate research assistant, Dept. of Computer Science & Engineering
- Topic modeling, graph and structural analysis of Tor network
- Machine learning and soft computing techniques in web agent detection
- Web robot traffic characterization

Imam Reza International University, Iran — *2012-2014*
Graduate research assistant, Dept. of Computer and Information Technology
- Soft and evolutionary computing techniques in web robot detection
- Markov process evaluation techniques with focus on Markov clustering algorithm

Ferdowsi University, Iran — *2011-2012*
Information and Communication Center, Network & Web developing Group
- Web programming, SQL programming, Network management and Security

Interests

- Web network characterization, measurements, and analytics
- Machine learning and soft computing techniques for web systems security

Technical Qualifications

Programming Language: Python, R, Java, MATLAB, Javascript, MySQL, SPARQL, PhantomJS, NodeJS, PHP, HTML
Operating System: Unix, Windows, Mac

Selected Publications

M. Zabihimayvan, Reza Sadeghi, D. Doran, Mehdi Allahyari (2019), "A Broad Evaluation of the Tor English Content Ecosystem", Proceedings of the 10th ACM Conference on Web Science, 333-342.

M. Zabihimayvan, D. Doran (2019), "Fuzzy Rough Set Feature Selection to Enhance Phishing Attack Detection", IEEE Conference on Fuzzy Systems (Accepted).

M. Zabihimayvan, D. Doran (2018), "Some (Non-)Universal Features of Web Robot Traffic," 52th Annual Conference on Information Sciences and Systems, IEEE, Princeton University, NJ

M. Zabihimayvan, R. Sadeghi, N. Rude, D. Doran (2017), "A Soft Computing Approach for Benign and Malicious Web Robot Detection," Expert systems with applications, 87, 129-140

J. Hamidzadeh, M. Zabihimayvan, R. Sadeghi (2018), "Detection of Web site visitors based on fuzzy rough sets", Soft Computing, 22(7), 147-158, April 2018.

Patent

M. Zabihimayvan, R. Sadeghi, D. Doran (2018), "Soft Computing Methods for Feature Selection for Web Agent Detection", U.S. Provisional Patent, Pending.

Research services

Invited talk, OCWiC Conference, Feb. 2019
Journal referee: Computers & Security, IEEE Trans. on Fuzzy Systems, Trans. on Internet Technologies.
Conference program committee member: Web 18, Intelligent Systems 19, Computing18 & 19.