

Mahdieh Zabihimayvan

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Resume updated on Feb. 2019

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Education

Ph.D., Computer Science (GPA:4.0)

2017-Present

Wright State University, Dept. of Computer Science and Engineering, Dayton, Ohio, USA

M.S., Computer Engineering-Software (GPA:4.0)

2012-2014

Imam Reza International University, Dept. of Computer and Information Technology, Iran

B.S., Computer Engineering-Software

2007-2011

Ferdowsi University, Dept. of Computer Engineering, Iran

Honors and Awards

Anita Borg Scholar at Grace Hopper, Houston, Texas, 2018

CRA-W Grad Cohort Scholar, 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

Top 2 of graduating M.Sc., Intl. University of Imam Reza, 2014

Experience

Wright State University, Dayton, Ohio, USA

2017-Present

Graduate research assistant, Dept. of Computer Science & Engineering

- Topic modeling, content evaluation, and structural analysis of Tor domains
- Machine learning and soft computing techniques in web users' behavior detection
- Web robot traffic characterization

Imam Reza International University, Iran

2012-2014

Graduate research assistant, Dept. of Computer and Information Technology

- Soft computing and Evolutionary computing techniques in web robot detection
- Markov processes 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

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

Technical Qualifications

Programming Language: Python, R, Java, MATLAB, Javascript, MySQL, SPARQL, PhantomJS, NodeJS, PHP, HTML

Operating System: Unix, Mac, Windows

Selected Publications

M. Zabihimayvan, Reza Sadeghi, D. Doran, Mehdi Allahyari (2019), "A Broad Evaluation of the Tor English Content Ecosystem", The Web Science Conference (Accepted).

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 (CISS), 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, (Impact factor: 3.928)

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. (Impact factor: 2.472)

Patent

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

Research services

Invited talk, OCWiC Conference, Feb. 2019

Referee for the journals of Computers & Security, IEEE Trans. on Fuzzy Systems, Mathematics and Computer Science.