

# Mahdieh Zabihimayvan

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Resume updated on Aug. 2018

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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

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## Experience

**Wright State University, Dayton, Ohio, USA**

2017-Present

Graduate research assistant, Dept. of Computer Science & Engineering

- Topic modeling and structure characterization for Web data (Java, Javascript, R, Python)
- Deep/machine learning in anomaly detection (Python, R, MATLAB)
- Statistical analysis and network science in data characterization (R, Python)

**Imam Reza International University, Iran**

2012-2014

Graduate research assistant, Dept. of Computer and Information Technology

- Markov processes with focus on Markov Clustering algorithm (MATLAB)
- Evolutionary computing, data mining, and machine learning methods in anomaly detection (MATLAB)

**Ferdowsi University, Iran**

2011-2012

Information and Communication Center, Network & Web developing Group

- Web programming (PHP, CSS, HTML), SQL programming (SQL Server and MySQL)
- Network management and Security (Microsoft Certified Solutions Expert)

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## Interests

- Topic modeling and structure characterization for Web data, a combination of Web scarping, data/text mining and cleaning, topic modeling, graph characterization, and statistical analysis
- Deep learning and applied machine learning methods with focus on anomaly detection
- Soft computing techniques from Bat algorithm to Ant colony for real-world problems with no known exact solution

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## Technical Qualifications

**Programming Language:** Python, R, MATLAB, Java, C++, Javascript, SQL, SPARQL, PhantomJS, NodeJS, PHP, HTML

**DL/ML Tools:** R (Caret), Python (MIPy, SciPy, Pandas, SciKit-Learn, TensorFlow)

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## Selected Publications

**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)

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## 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.

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## Research services

Referee for the journals of Computers & Security and IEEE Transactions on Fuzzy Systems

Program Committee member of the Web Conference 2018

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## Honors and Awards

Best paper award for publishing the paper titled "Detection of Web site visitors based on fuzzy rough sets", 2016

Top researcher of M.Sc. students of software engineering, 2016

Student scholarship for Grace Hopper, Houston, Texas, 2018

Travel grant for the CRA-W Grad Cohort, San Francisco, California, 2018