

Mahdieh Zabihimayvan

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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

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)
- Data mining, machine learning, and optimization techniques in anomaly detection (MATLAB)
- Evolutionary computing techniques as classifiers (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)

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 for different fields from security to defect detection in physical objects
- Soft computing techniques from Bat algorithm to Ant colony for real-world problems with no known exact solution

Technical Qualifications

Programming Language: Python, R, MATLAB, Java, C++, Javascript, PhantomJS, NodeJS, PHP, CSS, HTML

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

Data Mining Tools: R (Caret), Python (MIPy)

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 (2017), "Detection of Web site visitors based on fuzzy rough sets," Soft computing, In Press, (**Impact factor: 2.472**)

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

Research services

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

Program Committee member of the Web Conference 2018