

**Phone:** (937) 797-1571**Email:** [sadeghi.2@wright.edu](mailto:sadeghi.2@wright.edu)**Homepage:** <http://knoesis.org/Reza>**Location:** 377 Joshi Research Center, Wright State University, 3640 Colonel Glenn Highway, OH, USA 45435

## Education

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

May 2017 – Present

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

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

Sep 2013 – May 2015

International Imam Reza University, Department of Computer and Information Technology, Mashhad, Iran

**B.S., Computer Engineering- Software**

Sep 2008 – Sep 2012

Isfahan University of Technology, Department of Electrical and Computer Engineering, Isfahan, Iran

## Research Interests

Information retrieval from online medical literatures and social media

Modeling complex systems using probabilistic graphical models, deep learning, and Fuzzy Logic

Clinical decision support systems based on the state-of-the-art machine learning and signal processing methods

## Research Experience

**Graduate Research Assistant**

May 2017 – Present

Kno.e.sis Research Center, Wright State University, Dayton, Ohio, USA

Creating knowledge graph based on medical literatures

Applying probabilistic graphical model structure learning in learning progress

Detecting changes in behavior and activity patterns of patients with dementia by wearable and environmental sensors

Using signal processing and soft computing to predict the early hospital mortality by scrutinizing the vital signs

**Graduate Research Assistant**

Nov 2013 – Mar 2017

International Imam Reza University, Department of Computer and Information Technology, Mashhad, Iran

Feature Reduction and Selection based on Fuzzy Rough Set

Heart problem diagnosis via Fourier transform signal processing

## Teaching Experience

**Teaching Graduate Assistant**

Sep 2014 – May 2015

International Imam Reza University, Department of Computer and Information Technology, Mashhad, Iran

Courses: advanced computer programming, multimedia systems, and advanced mathematics in computer engineering

## Technical Strengths

**Database:** PostgreSQL, Oracle, Microsoft SQL Server**Programming language:** R, Python, ASP.NET, PL/SQL, MATLAB, HTML, CSS, C#, C, C++, JavaScript**Packages:** bnlearn, RPostgreSQL, caret, Scikit-learn, igraph, network, RCrawler, Keras, TensorFlow, Isa, OpenNLP

## Selected Publications

**R. Sadeghi**, T. Banerjee, W. Romine (2018), “Early Hospital Mortality Prediction using Vital Signals”, Smart Health (In Press).J. Hamidzadeh, M. Zabihiyayvan, **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)**R. Sadeghi**, J. Hamidzadeh (2018), “Automatic support vector data description”, Soft Computing, 22(1), 147-158, January 2018. (Impact factor: 2.472)M. Zabihiyayvan, **R. Sadeghi**, H. N. Rude, D. Doran (2017), “A soft computing approach for benign and malicious web robot detection”, Expert Systems with Applications, 87, 129-140, November 2017. (Impact factor: 3.928)J. Hamidzadeh, **R. Sadeghi**, N. Namaei (2017), “Weighted support vector data description based on chaotic bat algorithm”, Applied Soft Computing, 60, 540-551, November 2017. (Impact factor: 3.541)

## Patent

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

## Leadership and service activities

The program committee of WWW, ICACR, Biomedical Research, IntelliSys, Computing conference (2018)

The referee of IEEE Transactions on Fuzzy Systems, Journal of Medical Internet Research, International Journal of Science and Business (2018- Present)

Academic outreach coordinator of Biomedical Research and Technology Association (Feb 2018- Present)

SIGIR conference student volunteer, Ann Arbor, MI (2018)

## Honors and awards

Received NSF travel award for IEEE/ACM CHASE2018, Washington, D.C., 2018

Best paper award for publishing “Detection of Web site visitors based on fuzzy rough sets”, 2017

Best paper award for publishing “Automatic support vector data description”, 2016.

Top researcher at Imam Reza International University, 2016