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## Work experience

### Graduate Research Assistant

May 2017 - May 2020

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

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

Signal processing of vital signals of patients who stayed at CCU

Using soft computing techniques for anomaly detection with focus on mortality and readmission prediction

### Software Developer

Nov 2013 – Mar 2017

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

Customer Prediction in Furniture store based on Artificial Neural Network

Feature Reduction and Selection based on Fuzzy Rough Set

Heart problem diagnosis via Fourier transform signal processing

### Teaching Graduate Assistant

Sep 2014 - May 2015

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

Basic concepts of C and C++ programming in "Advanced Computer programming" and "Computer programming"

Creating dynamic website using HTML 5, CSS, and Java Script in "Multimedia systems"

The applications of fuzzy logic by MATLAB Fuzzy toolbox in "Advanced mathematics in computer engineering"

### Executive management and computer trainer

Sep 2011-Aug 2016

Soheil Education Complex, Tehran, Iran

Organization of student information

Train multimedia creation by Microsoft Power Point and Autoplay software

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## Education

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

May 2017 - May 2020

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

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## Interests

Design and implementation of Expert Systems with the aim of outlier detection

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

Personalized clinical decision support systems based on state-of-the-art machine learning methods

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## Selected Publications

**R. Sadeghi**, T. Banerjee, W. Romine (2018), "Early Hospital Mortality Prediction using Vital Signals", accepted in Smart Health.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)

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## Technical Strengths

**Database:** PostgreSQL, Oracle, Microsoft SQL Server, Microsoft Access**Programming language:** R, MATLAB, Octave, HTML, CSS, C#, C, C++, JavaScript, Python, ASP.NET, PL/SQL**Software:** Visual Studio, Eclipse, VMware, VM VirtualBox, SPSS, Bayesia, Protégé, MS Office, Photoshop, Weka**Packages:** bnlearn, RPostgreSQL, Rcmdr, caret, Scikit-learn, igraph, network

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## Leadership and Service Activities

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

The referee of IEEE Transactions on Fuzzy Systems (Feb 2018- Present)

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