Reza Sadeghi

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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, TenseorFlow, 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. 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)

R. Sadeghi, J. Hamidzadeh (2018), "Automatic support vector data description", Soft Computing, 22(1), 147-158, January 2018. (Impact factor: 2.472)

M. Zabihimayvan, **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. Zabihimayvan, **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), and IEEE Big Data 2018
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