

Sina Mohseni

Computer Science PhD Candidate, Texas A&M University.

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Education

- [2016] PhD candidate, Computer Science, Texas A&M University, College station, Texas. (HCI and Data Visualization major)
- [2012-14] M.Sc. in Electronic Engineering. Babol Noshirvani University, Iran. (Computer Vision major)
- [2007-11] B.Sc. in Electrical and Electronic Engineering. University of Isfahan, Iran.

Research Projects

- [2017- present] Explainable Artificial Intelligence, DARPA research grant. Texas A&M University.
 - Human Grounded Evaluation Benchmark for Text and Image Interpretable Classifiers. (ongoing)
 - Study Machine Explanation Quality's Effect in User's Trust. (ongoing research)
 - Study Machine Explanation Quality's Effect in User's Trust. (ongoing research)
- [2016 - present] User Interaction Logs Analysis and Clustering for Provenance Segmentation and Visualization. NSF research grant, Texas A&M University.
 - User interaction logs clustering for analytic provenance retrieval (ongoing research)
 - ProvThreads visualization: A new visualization design and segmentation technique for user interaction segmentation in analytic tasks.
 - Analytic Provenance Dataset: including user interaction logs, think aloud and coded data for 24 user participants.
- [2015] A Solidworks toolbox for casting shrinkage analysis in investment casing. Center for e-Design Grant, Oregon State University.
 - A design automation tool for CAD kernels to apply scale factors in boundary representation formats.
- [2014] Competition Over Resources: A New Optimization Algorithm Based on Animals Behavioral Ecology.
 - Publications: five peer-reviewed papers.
- [2013] Facial Expression Recognition Based on Anatomical Structure of Human Face.
 - Publications: MSc. thesis, four peer-reviewed papers

Refereed Publications

- 7 First Author; 6 Co-author; 3 under review.
- Full list of publications are available online.

Work and Internship Experience

- [2014] Line Follower Robotic League Director. Babol, Iran.
- [2013] Med. Tech. Medical Laboratory Services. Sari, Iran.
- [2010-12] Almas Electronic Co. Isfahan, Iran.

Awards

- [2014] Sina Mohseni, Reza Faramarzi, "Insulator Leakage Current Monitoring and Alarm System in Power Transmission Systems", Golestan Province Power Distribution Co. Research Grant.
- [2011] Sina Mohseni, et al. "Study on Effects of CFL Lamp on Power Distribution System" Isfahan Province Regional Power Distribution Co. Research Grant.

Patents

- [2014] S. Mohseni, Reza Faramarzi, "Insulator Leakage Current Monitoring and Alarm System in Power Transmission Systems", IRP/ 021579.
- [2010] S. Mohseni, et al., "Blood Pressure Monitor Calibrating Device and Corresponding Method", European Patent, Publication Number: WO/2014/060012.

Technical Skills

- Languages: Python, JavaScript, R, MATLAB, C++, C#.
- Machine learning: SciPy, Gensim.
- Data visualization: D3.js, ggplot2.
- HCI: Contextual Design, Behavioral Data Coding, Think Aloud, Heuristic Analysis, User Interaction Logs Analysis, Interviews and Questionnaires, Empirical Methods and Statistical Analysis.

Core Competence

- Excellent Problem Solving and Creative Thinking Skills.
- Skillful Leadership and Micromanagement.
- Strong Communication and Collaboration Skills.