Siavash Haghiri Ghazvini

Contact Information:
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Date of Birth: 5th, March, 1987

Research Focus

- Machine learning in a comparison-based setting
- Human computation
- Graph theoretic analysis of brain networks

Education

[2015-now] (Expected graduation: June 2019)
PhD student, Computer Science, Tuebingen Univeristy, Germany
Supervised by: Prof. Dr. Ulrike von Luxburg
Research topics: Machine learning in a comparison-based setting, graph theoretic analysis of brain networks

[2010-2012]
MSc., Computer Engineering, Sharif University of Technology, Tehran, Iran
MSc. Thesis: Image classication by sparse representation

[2005-2010]
BSc., Computer Engineering, Sharif University of Technology, Tehran, Iran.

Publications

- **S. Haghiri, D. Garreau, U. von Luxburg "Comparison-Based Random Forests",** in International Conference on Machine Learning (ICML) 2018. 🔗**Paper, </>Code**

- **S. Haghiri, D. Goshdastidar, U. von Luxburg "Comparison-Based Nearest Neighbor Search",** in International Conference on Artificial Intelligence and Statistics (AISTATS) 2017. 🔗**Paper, </>Code**

- **S. Haghiri, F. Wichmann, U. von Luxburg "Estimation of perceptual scales by ordinal embedding", manuscript in preparation:** We applied the ordinal embedding method to psyphophysics scaling tasks. We showed the performance of ordinal embedding by various simulations and two real case-studies in psychophysics

- **S. Haghiri, F. Wichmann, U. von Luxburg "Comparison-based framework for psychophysics: Lab vs. crowdsourcing", manuscript in preparation:** We evaluate the performance of comparison-based methods for a complex psychopshysics experiment in our psychophysics Lab versus the Amazon Mechanical Turk.

- **C. Garcia Forlim, S. Haghiri, S. Duezelc, U. Lindenbergerc, S. Kuehn "Efficient small-world and scale-free functional brain networks at rest using k-nearest neighbors thresholding",** bioRxiv (2019): 628453.

- **S. Haghiri, H. R. Rabiee, A. Soltani, A. Hosseini and M. Shadloo "Locality Preserving Discriminative Dictionary Learning",** in International Conference on Image Processing (ICIP) 2014, IEEE (nominated as %10 best papers).

- **Ghasemi, A., M. T. Manzouri, H. R. Rabiee, M. H. Rohban, and S. Haghiri "Active One-Class Learning By Kernel Density Estimation",** IEEE International Workshop on Machine Learning For Signal Processing (MLSP) 2011.

Honors and awards

- Ranked 1st by GPA among Articial Intelligence Students of class 2010, Sharif University
- Silver medalist in the 22nd Iranian National Mathematics Olympiad.
  (Awarded by the President and Minister of Education), 2004
- Membership of Iran's National Elites Foundation, 2004

Programming skills

- Programming languages: C,C++, Java,Python.
- Modeling and simulation tools: MATLAB, R
- Web Technologies PHP, Java , HTML

Work Experience

[2013-2015]
- Developer and correspondent of the prediction algorithm for the first automatic analytical
  tool for Iran's "Gold Future Market".

Teaching Experience

- Teaching Assistant: Machine Learning, Prof. Dr. von Luxburg, Tuebingen University, Spring 2018
- Teaching Assistant: Machine Learning, Prof. Dr. von Luxburg, Hamburg University, Spring 2015
- Teaching Assistant: Statistical Pattern Recognition, Prof. Rabiee, Sharif University, Spring 2012
- Teaching Assistant: Stochastic Processes, Prof. Rabiee, Sharif University, Fall 2011 and Fall 2012

Language Skills

- Farsi: Native
- English: Fluent, TOEFL IBT(103)
- German: B1