SINA TABAKHI

@ stabakhi1@sheffield.ac.uk % https://sinatabakhi.github.io/ ○ https://github.com/SinaTabakhi
ᴦ https://scholar.google.com/citations?user=G6JSFp8AAAAJ&hl=en

EDUCATION

- **University of Sheffield**, Sheffield, UK.   Nov 2021 - Present

  Ph.D. in Computer Science.

  Supervisor: Haiping Lu, *Senior Lecturer*.

- **University of Kurdistan**, Sanandaj, Iran.   Sep 2011 - Oct 2013

  M.Sc. in Computer Engineering, Artificial Intelligence.

  Thesis: New feature selection methods based on filter approach using ant colony optimization algorithm.

  Supervisor: Parham Moradi, *Associate Professor*, and Fardin Akhlaghian Tab, *Associate Professor*.

  GPA: 19.45/20; *Rank*: 1/20.

- **Azad University-Sanandaj Branch**, Sanandaj, Iran.   Sep 2007 - Sep 2011

  B.Sc. in Information Technology Engineering.

  Thesis: Review of filtering methods in image processing.

  Supervisor: Anvar Bahrampour, *Assistant Professor*.

  GPA: 18.41/20; *Rank*: 1/80.

RESEARCH INTERESTS

- Applications of Data Mining
- Machine Learning for Big Data
- Feature Selection
- Multi-Omics Data Integration
- Bioinformatics

PUBLICATIONS

Journal Papers

1. **Sina Tabakhi** and Parham Moradi, "Relevance–redundancy feature selection based on ant colony optimization", *Pattern Recognition* (**IF: 7.74**), Vol. 48, pp. 2798-2811, 2015, (**143 citations** as of 7 June 2022).

2. **Sina Tabakhi**, Ali Najafi, Reza Ranjbar, and Parham Moradi, "Gene selection for microarray data classification using a novel ant colony optimization", *Neurocomputing* (**IF: 5.719**), Vol. 168, pp. 1024-1036, 2015, (**126 citations** as of 7 June 2022).

3. **Sina Tabakhi**, Parham Moradi, and Fardin Akhlaghian, "An unsupervised feature selection algorithm based on ant colony optimization", *Engineering Applications of Artificial Intelligence* (**IF: 6.212**), Vol. 32, pp. 112-123, 2014, (**336 citations** as of 7 June 2022).

HONORS AND AWARDS

- Awarded the **University Research Scholarship**, University of Sheffield, UK, 2021.

- One of the **Top 5 Most Cited Papers** in Last 5 Years Published in Engineering Applications of Artificial Intelligence (Elsevier), 2019.

- Achieved **Outstanding Contribution in Reviewing** certificate, Pattern Recognition (Elsevier), 2018.

- Awarded **Research Grant** for highlighted academic activities, Iran's National Elites Foundation, Iran, 2016.

- Recognized as a **National Elite** by Iran's National Elites Foundation (The Professional National Foundation for Supporting Elites), Iran, 2014.

- **Ranked** 1st (highest GPA) among 20 graduate students, Department of Computer Engineering, University of Kurdistan, Iran, 2013.

- **Honorable Mention** in the 1st Amirkabir Artificial Intelligence Challenges (AAIC2012), Bank Fraud Detection League, Amirkabir University of Technology, Iran, 2012.
- **Ranked** 1st (highest GPA) among 80 undergraduate students, Department of Computer Engineering and IT, Azad University-Sanandaj Branch, Iran, 2011.
- Qualified as a Member of Young Researchers and Elites Club (First Center of Identification and Supporting Elites and Young Researchers of the University in Iran), Iran, 2010.
- **Honorable Mention** in the Asia Regional ACM Programming Contest, Tehran Site, Sharif University of Technology, Iran, 2008, 2009, and 2010.
- **Ranked** 1st in Internal ACM Programming Contest, Azad University-Sanandaj Branch, Iran, 2008 and 2009.

TEACHING EXPERIENCE

- **Instructor**, Design and Analysis of Algorithms, University of Kurdistan, Iran. Fall 2015
- **Instructor**, Data Structures, University of Kurdistan, Iran. Spring 2015
- **Instructor**, Design and Analysis of Algorithms, Fanavari Abidar Institute, Iran. Spring 2014
- **Teaching Assistant**, Design and Analysis of Algorithms, University of Kurdistan, Iran. Fall 2012 & Spring 2013
- **Teaching Assistant**, Advanced Programming in C++, Azad University-Sanandaj Branch, Iran. Spring 2008

WORK EXPERIENCE

- **Software Engineer** at University of Sheffield, Sheffield, UK. Jan 2022 – Present
- **Senior Backend Developer** at Phoenix, Tehran, Iran. Dec 2019 – Oct 2021
- **Senior Backend Developer** at AloPeyk, Tehran, Iran. May 2019 – Nov 2019
- **Web Application Developer** at Jiro Software Engineering Co., Sanandaj, Iran. Jan 2017 – May 2019
- **Research Assistant** at University of Kurdistan, Sanandaj, Iran. Jun 2015 – Apr 2016
- **Research Assistant** at Molecular Biology Research Center, Tehran, Iran. Jul 2014 – May 2015
- **Internship** at Rayan Ravesh Company, Sanandaj, Iran. Mar 2011 – Jun 2011

RESEARCH PROJECTS

- **Universal Feature Selection Tool (UniFeat)** (https://unifeat.github.io/)
  with Parham Moradi
  Universal Feature Selection Tool (UniFeat) is an open-source tool, developed completely in Java, for performing feature selection process in different areas of research. UniFeat provides a set of well-known and state-of-the-art feature selection methods within the significant auxiliary tools, including performance evaluation criteria, visual displays, statistical analysis, and reduced datasets to compare the performance of feature selection methods.

- **Onco Gene Selector**
  Onco Gene Selector is Java-based software for gene selection in microarray data using machine learning techniques.

MEMBERSHIPS

- IEEE student member. since 2012
- Iran's National Elites Foundation. 2014-2021
- Exceptional Talents Office of the University of Kurdistan. 2012-2013
- Young Researchers and Elites Club. 2010-2014

SERVICE

- **Reviewer** in Pattern Recognition Journal (Elsevier). 2017-2018

- **Subreviewer** in International Conference on Information and Knowledge Technology (IKT).   2015

Technical Skills

- **Programming Languages**:
  - Proficient in C#, Java.
  - Worked with Python, C/C++.

- **Web Programming**:
  - Experienced in ASP.NET.
  - Familiar with HTML, CSS, Javascript.

- **Databases**:
  - Experienced in SQL server.
  - Worked with MySQL.

- **Operating Systems**:
  - Microsoft Windows.
  - Familiar with Linux (Ubuntu).

- **IDE**:
  - Microsoft Visual Studio, NetBeans, Eclipse, PyCharm.

- **Version Controls**:
  - Git.

Languages

- English: Fluent (IELTS Academic Score: 6.5)

- Kurdish: Native

- Persian: Native

References

1. Haiping Lu, Senior Lecturer, Department of Computer Science, University of Sheffield, UK (E-mail: h.lu@sheffield.ac.uk, Homepage: https://haipinglu.github.io/).

2. Parham Moradi, Associate Professor, Department of Computer Engineering, University of Kurdistan, Iran (E-mail: p.moradi@uok.ac.ir, Homepage: https://research.uok.ac.ir/~pmoradi/en/).

3. Fardin Akhlaghian Tab, Associate Professor, Department of Computer Engineering, University of Kurdistan, Iran (E-mail: f.akhlaghian@uok.ac.ir, Homepage: https://research.uok.ac.ir/~fakhlaghian/en/).