Behrouz Samieiyan

Contact

+98-910-245-2304

Behrooz.s.k@gmail.com

Research Interests

- *Machine learning*
- *Feature selection*
- *classification*
- *Knowledge optimization*
- *Big Data*
- *Data Analysis*

Languages

PERSIAN
First language

ENGLISH
Proficient

Education

2012–2015 ***M. Sc. in Artificial Intelligence & Robotics***, *Iran University of Science and Technology, Tehran, Iran. GPA: 3.66/4.0. (Ranking: 2/33)*

Thesis

Rule-based knowledge base reduction using fuzzy theory

Supervisors: Prof. M. Kangavari

2008–2012 ***B. Sc. in Information Technology***, *Hamedan University of Technology, Hamedan, Iran. GPA: 3.3/4.0 (Ranking: 2/115)*

Academic and Work Experiences

Academic Experiences

2013–present *Research Assistant: Member of the mathematic and algorithm laboratory at Iran University of Science and Technology, Tehran, Iran.*

I pursued my research on knowledge management. At first, I focused on knowledge management and knowledge flow, and then by reviewing the previous works I tried either to select the best architectures in accordance with the upcoming projects in the laboratory or to make changes to their architectures to be adapted with mentioned projects: Through the projects I hope to enhance my knowledge of:

- ✓ *Machine learning*
- ✓ *Knowledge Management*
- ✓ *Knowledge Flow*
- ✓ *Recommender System*
- ✓ *Expert System*

In this period, as a research assistant, my focus was on classification and clustering. In this project, a wide range of output pulses from civil radars receiving clustered using pw, freq, pa and etc. Finally, pulse sending sources and pulses transmitted from each sources were determined.

- ✓ *Pulse Clustering*
- ✓ *Classification*

I focused on different feature selection methods. After a general study of the existing algorithms, the M-h method algorithms and then the nature-inspired algorithms were examined. Ultimately, the Crow Search Algorithm was examined more carefully and some changes have made to it so that it can be used more effectively. The results of this research have been submitted on two different journals and those are still under review. In this research I broaden my knowledge on:

- ✓ *Feature Selection*
- ✓ *Knowledge Optimization*
- ✓ *Classification*
- ✓ *Neural Networks*

Work Experiences

2018–present *Founder and CEO of Electrical and Computer Engineering Company named: Borna Fanavaran Honamic*

During this period, with collaboration with other expertise, I founded a company in the field of electricity and computer, and we were able to recruit more than ten new graduate engineers. In my firm, I mostly concentrated on projects in the field of IOT and remote control. Dealing with These projects, I had to design different kind of software, hardware, and finally, implementing them in the industrial environment. Some of these are as follows:

- ✓ *Smart controlling and data analysis of hospital air conditioning system*
- ✓ *Smart Water Meter Data Logger*
- ✓ *Vehicle Tracker Implementation*

Skills and Expertise

- *C/C++ ,Qt*
- *Python*
- *Matlab Programming*
- *AVR Programming*
- *Arduino Programming*
- *Endnote*
- *Microsoft office*

2018–2019 — *Project Manager and Researcher of Software and Hardware Engineering Company named: Samim Group*

- ✓ *IOT Manager*
- ✓ *Embedded camera for Plate Recognition*
- ✓ *Live Streaming (the Broadband integrated telecaster)*

2017–2018 — *Data Scientist and Python Developer named: Asiya Sanat Hoshmandsaz Rayan*

- ✓ *Data Analysis*
- ✓ *Classification*
- ✓ *Smart Gas Meter Implementation*

Teaching Assistant Experiences

- ✓ *Logic circuit*
- ✓ *Algorithm Design*
- ✓ *Data Structure*
- ✓ *Machine Learning*
- ✓ *District Mathematics*
- ✓ *Computer Architecture*

PUBLICATIONS

ACADEMIC JOURNAL PAPERS

- *B. Samieiyan, P. MohammadiNasab, MA. Mollaei, F. Hajizadeh, M. Kangavari.* ***Novel Optimized Crow Search Algorithm for Feature Selection.*** *Was submitted on Expert Systems with Applications journal. (Under Review)*
- *B. Samieiyan, P. MohammadiNasab, MA. Mollaei, F. Hajizadeh, M. Kangavari.* ***Promoted crow search algorithm for Solving Feature selection Problems.*** *Was submitted on computing journal. (Under Review)*
- *M. Abbas Mollaei, F. Hajizadeh, S. Mohammadi, M. Binesh Marvasti, SA. Asghari, B. Samieiyan,* ***"Design of a Highly Configurable Power-aware Approximate Multiplier"****, was submitted on IEEE Transactions on Circuits and Systems I. (Under Review)*