A. MIR

CONTACT DETAIL

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GitHub profile: github.com/mir-am

Google Scholar profile: scholar.google.com/citations?user=IZB4GI8AAAAJ&hl

EDUCATION

Islamic Azad University Feb. 2016 - Jan. 2019
M.Sc in Computer Science
Minor in Artificial Intelligence & Machine Learning
Thesis subject: Robust Twin Support Vector Machine for Noisy Data Thesis grade: 4/4 (A+)
Overall GPA: 3.52 out of 4
Courses: Introduction to Artificial Intelligence, Artificial Neural Networks, Machine Learning, Statistical Pattern Recognition, Evolutionary Computation, Image Processing, Computer Vision, Natural Language Processing, Game Theory, Research Methodology

University of Tehran Oct. 2011 - Jul. 2015
B.Sc degree
Final project: Applications of Python Programming Language in Climatology
Courses: Discrete Mathematics, Data Structures, Algorithm Design, Digital Logic, Assembly Language, Operating Systems, Computer Architecture, Database Systems, Formal Languages and Automata, Design of Programming Languages

WORK EXPERIENCE

Iranian Research Institute for Information Science and Technology July 2017 - Present
Research Assistant at Machine Learning and Text Mining Lab *Tehran, Iran*

Achievements and Contributions

· Published two research papers in scholarly journals.
· Presented three research papers at international and national conferences.
· Designed and implemented machine learning algorithms in C++ and Python.
· Developed LightTwinSVM program for the research and classification tasks.
· Taught students to do research and solve problems.

PUBLICATION

Journals

- A. Mir and Jalal A. Nasiri. An enhanced knn-based twin support vector machine with stable learning rules. *Neural Computing and Applications*, (Under review)
- A. Mir and Jalal A. Nasiri. Lighttwinsvm: A simple and fast implementation of standard twin support vector machine classifier. *The Journal of Open Source Software*, (Submitted)
- A. Mir and Jalal A. Nasiri. Knn-based least squares twin support vector machine for pattern classification. *Applied Intelligence*, 48(12):4551–4564, Dec 2018
- Jalal A. Nasiri, A. Mir, and Somayeh Fatahi. Classification of learning styles using behavioral features and twin support vector machine. *Journal of Technology of Education*, November 2018 [**in Persian**]

Conferences

- A. Mir and Jalal A. Nasiri. Automatic opinion mining of movie reviews using robust twin support vector machine. In *4th Iranian Conference on Computational Linguistics*. Institute for Humanities and Cultural Studies, February 2018 [**in Persian**]
- A. Mir, Somayeh Fatahi, and Jalal A. Nasiri. Prediction of personality models in e-learning environments using twin support vector machine. In *2nd International Conference on Knowledge-Based Research in Computer Engineering and Information Technology*. Allameh Tabataba'i University, September 2017 [**in Persian**]
- A. Mir, Jalal A. Nasiri, and Somayeh Fatahi. Sentiment analysis of movie reviews using least squares twin support vector machine. In *1st Conference on Participles of Electrical and Computer Engineering*. Payame Noor University, July 2017] [**in Persian**]

SOFTWARE PROJECTS

LightTwinSVM https://github.com/mir-am/LightTwinSVM
A simple and fast implementation of standard TwinSVM classifer

- A simple console program for running TwinSVM classifier
- The clipDCD algorithm was improved and implemented in C++ for solving optimization problems of TwinSVM.
- Linear, RBF kernel and Rectangular are supported.
- Binary and Multi-class classification (One-vs-All & One-vs-One) are supported.
- It supports grid search over C and gamma parameters.
- Detailed classification result will be saved in a spreadsheet file.
- Used continuous integration services (Travis CI & AppVeyor) to build and test the program on Linux, OSX, and Windows systems.

TECHNICAL SKILLS

Programming Languages	Python, C, Modern C++,
Software Development	Life Cycle, Clean Code, Debugging, Documentation, Continuous Integration, Profiling
Operating Systems	Linux (Ubuntu), Windows
Databases	MySQL, Microsoft SQL
Source Control	Git, GitHub
Typesetting	LaTeX

RESEARCH INTERESTS

- Machine Learning
- Pattern Classification
- Natural Language Processing

LANGUAGES

- English
- Persian