Mohammad Ahmadi

Contact Information

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Education

Shiraz University, Shiraz , Iran
M.Sc., Artificial Intelligence.
September 2016 - September 2019
Ranked 3rd
Overall GPA: 17.68/20.00 - (without thesis grade)
Thesis Advisor: Dr. Reza Boostani

Shiraz University, Shiraz , Iran
B.A., Computer Engineering.
September 2010 - July 2015
Ranked 3rd - (At the end of the 6th semester)
Overall GPA: 15.17/20.00

Research Interests

Machine Learning, Feature Engineering, Data Science, Deep Learning, Image Processing, Bioinformatics, Reinforcement Learning

Publications

Book:

M.Ahmadi.Ganjei, K.Shirini, Feature Selection & Dimension Reduction in Machine Learning, August 2020, Akhtar Publications, in Persian

Papers:

M. A. Ganjei and R. Boostani, "A Fast Hybrid Feature Selection Method," 2019 9th IEEE International Conference on Computer and Knowledge Engineering (ICCKE), Mashhad, Iran, 2019, pp. 6-11

K. Shirini, M. A. Ganjei, and F. Hashempoor, "Vehicle Counting using Video Image Processing," national Conference on Interactive Information Retrieval, Tehran University, Iran, 2019.

K. Shirini, N. R. Zamir, M. A. Ganjei, and M. R. Feizi-Derakhshi, "Improving Gender Recognition Using Fingerprint with SVM, KNN, and Decision Tree," 3rd National Conference on Computer, information technology and applications of artificial intelligence, Chamran University, Ahvaz, Iran, 2020

M. Modirroosta,K. Shirini, M. A. Ganjei,"Diagnosis of Breast Canser Using Deep Supervised Learning (UNET)", 11th National Conference on Electrical, Computer and Mechanical Engineering, Shirvan, Iran, 2021

M. A. Ganjei and R. Boostani, "A Hybrid Feature Selection Scheme for High-Dimensional Data," 2022, Submitted to Journal, In Second Revise Step

Teaching Experiences

The Design and Analysis of Algorithms
Fall 2020: Yasouj University

Teaching Assistance Experiences

Advanced Statistical Pattern Recognition
Spring 2018: Prof. Reza Boostani, Shiraz University
Artificial Intelligence
Spring 2017: Prof. Zohreh Azimifar, Shiraz University
The Fundamentals of Programming
Fall 2018: Dr. Betsabeh Tanoori, Shiraz University
Microprocessor
Spring 2013: Prof. Shahram Jafari, Shiraz University

Selected Projects

Clothing Recognition and Segmentation for Automatic Product Suggestions
This image processing framework was implemented in the summer of 2017.
In this work, we want to develop a method to detect and suggest clothes. Given a simple image without meta-data, we want to detect clothes class and suggest clothes to users based on online clothing stores' clothes.

Hybrid Feature Selection method for High-Dimensional Data (M.Sc. Thesis)
In this work, we introduce three efficient hybrid feature selection methods for high-dimensional data (contain thousands of features, e.g. Genomics, Image data, or information-retrieval-based data), which enable us to reduce the complexity of classifiers, improve their performance, overcome the curse of dimensionality, and better understand data in several applications. In this frameworks, we solved the main problem of wrapper methods, which is time-consuming. In addition, to have more speediness than similar methods, these provide more accuracy in most cases.

Video Messaging and Other Apps
It was implemented in Java(Android), Summer 2015.
Using the application, users can choose an audio recording or soundbite from movies, shows, music, and internet trends and record a video of themselves dubbing over that piece of audio.
Nearly ten other apps were also built.

Honors & Awards

Ranked first in the provincial research and study competitions, 2008
Being at the top of the Iranian app store's list of best applications, 2015
Being one of the top three students in the Department of Engineering & Computer Science and Information Technology of Shiraz Univesity for the scholarship at University of Passau, 2018
Ranked first in Machine Learning Course among 25 fellow Master student, Shiraz University, Spring 2017

Skills

- Programming in Python, Matlab, C/C++, Java, R
- Android Development
- WEKA(Data Mining Software)
- Algorithm design, Discrete Mathematics
- Data pre-processing, classification, regression, clustering
- AVR , FPGA , LaTeX

References

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School of Electrical and Computer Engineering
Shiraz University
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