Ali Mortazavi

CONTACT
INFORMATION

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EDUCATION

Amirkabir University of Technology (Tehran Polytechnic) , Tehran, Iran

B.Sc. Computer Software Engineering,		2013 – 2017
CGPA: Overall	**18.47 / 20 (3.78/4)** [Ranked **3rd**]	
Selected Course	**19.33 / 20 (4/4)**	

RESEACH
INTERESTS

- Statistical Machine Learning
- Optimization
- Sequential Prediction
- Mechanism Design in Game Theory

RESEARCH
EXPERIENCE

Implementation and Evaluation of "Genetic" and "Simulated Annealing" Algorithms for Extended Travelling Salesman Problem, B.Sc. Thesis, [code] [report]

Under the supervision of Dr. Razazi at Amirkabir University of Technology

In this project, we tested the performance of two different heuristic approaches to solve an NP-Complete Problem. This problem is an extended version of the Travelling Salesman Problem. Since our approach is heuristic, there is no guaranty to find a global optimum answer. Therefore, we needed some other exact approach for computing the global optimum. For this purpose, we reduced our problem to an Integer Linear Programming Instance. So in small graph samples, we could compare our results with the optimum solution and for the large graph samples, we just compared our two different methods with each other.

ACADEMIC
PROJECTS

Image Denoising and Segmentation Using Markov Random Field [code][report]
Optimizing Energy Function using Simulated Annealing, Comparing different Color Spaces results.
Text Summarization [code][report]
Extracting important sentence as a summary using page rank algorithm and word2vec.
Text Classification [code][report]
Using different metrics (mutual information, information gain, etc.) for extracting important words for document classification task.

HONORS AND
AWARDS

- **Ranked 3rd** (out of 100) in term of CGP among student of computer engineering of 2013 Entrance	2017
- **Ranked 19th** in the Final Stage in **National Scientific Olympiad** of Computer Engineering	2016
- Qualified in the Selection Exam of **National Scientific Olympiad** of Computer Engineering	2016
- **Qualified as 9th** among the students in all the Universities in the Tehran Region	2015
- **Best Score in Mathematics** Team Selection Exam	2015
- **Ranked Top 0.5%** In The Country-wide University Entrance Exam (among 250,000)	2013

TEACHING
EXPERIENCE

Probability and Statistics, Teaching Assitant	spring 2018
Special Class for Olympiad Preparation, Instructor	spring 2017 and 2018
Algorithm Design, Teaching Assitant	spring 2017
Algorithm Design, Teaching Assitant	spring 2016