

Amir Mohammad Ebrahimi

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- RESEARCH INTERESTS
- ◇ Software Automation, (Data Driven) Requirement Engineering, Requirement Elicitation
 - ◇ Social Network Content Analysis, Data Mining, Applied Machine Learning
- EDUCATION
- ◇ **M.Sc Degree in Computer Engineering** Sept. 2017 – ongoing
Department of Computer Engineering **GPA: 16.92/20**
Amirkabir. University of Technology, Tehran, Iran
SUPERVISOR: Ahmad Abdollahzadeh Barforoush
Thesis title: Design and Implementation Tool in order to Analysis Texts of Social Networks for Requirement Elicitation
 - ◇ **B.Sc Degree in Computer Engineering** Sept. 2013 – Sept. 2017
Department of Computer Engineering **GPA: 18.40/20**
Ferdowsi. University of Mashhad, Mashhad, Iran
SUPERVISOR: Abbas Rasoolzadegan
Thesis title: Design and Implementation Tool in order to Evaluate the Techniques of Design Pattern Mining
 - ◇ **High School Diploma in Mathematics and Physics** Sept. 2009 – June 2013
Daneshgah Highschool, Zahedan, Iran **GPA: 19.28/20.00**
Affiliated with the *University of Sistan and Baluchestan*
- HONORS AND AWARDS
- ◇ **Ranked First** 2014 – 2017
in three years continuously, certified with the BSc degree in the field of software engineering, and achieved the first class with distinction among 52 graduated students.
 - ◇ **Accepted as** Sept. 2017
Ms. student at Amirkabir University of Technology without entrance exam and through brilliant talent.
 - ◇ Member of the **Iran's National Elites Foundation** 2017 – present
National Elites Foundation was formed in 2006, and its ultimate goals are planning and policy-making to identify, direct, economical and spiritual support of elites (in two categories of superior and elite talents); attracting, preserving, applying and supporting them in order to promote the production of science, technology, art, literature and culture, and the scientific and balanced development of the country.
- PUBLICATIONS
- ◇ Bahareh Bafandeh Mayvan, Abbas Rasoolzadegan and **Amir Mohammad Ebrahimi**, "A New Benchmark for Evaluating Pattern Mining Methods Based on the Automatic Generation of Testbeds", International Journal of Information and Software Technology, 2018, (under final review)
 - ◇ **Amir Mohammad Ebrahimi**, Mohammad Saber Gholami, Saieedeh Momtazi, Mohammad Reze Meybodi and Ahmad Abdollahzadeh Barforoush, "Correlation Analysis of Applications Features: A Case Study on Google Play", The International Conference On Contemporary Issues in Data Science, 2018 (submitted)

TEACHING AND
WORKING
EXPERIENCE

- ◇ **Lab Membership**
 - Member of DDEMS Laboratory 2014 - 2016
 - Working on specific compilers to analyze source codes of critical systems to be written according to predefined standards
 - Member of SQL laboratory 2016 - 2017
 - Working on Bachelor's thesis
 - Member of ISLAB laboratory 2017 - ongoing
 - Working on Master's thesis
- ◇ **Teaching Assistant**

Ferdowsi University of Mashhad

 - Compiler Design Concepts Spring 2016 Instructor: Prof. Haleh Amintoosi
 - Compiler Design Concepts Fall 2016 Instructor: Prof. Haleh Amintoosi
 - Compiler Design Concepts Spring 2017 Instructor: Prof. Haleh Amintoosi
 - Systems Analysis and Design Spring 2016 Instructor: Prof. Abbas Rasoolzadegan
 - Management Information Systems Spring 2016 Instructor: Dr. Babak Rezaee
 - Fundamentals of Entrepreneurship Fall 2016 Instructor: Dr. Ali Jahedi
- ◇ **Contests**
 - 39th ACM International Collegiate Programming Contest 2014
 - FCPC ACM Competition 2015

RELATED
COURSE

- ◇ **Amirkabir University of Technology**
 - Seminar (19/20), Introduction to Design Patterns (18/20), Big Data Analytics (17.5/20), Algorithms for Complex Networks (17/20), Statistical Natural Language Processing (16.64/20), Analysis Design of Algorithms (16/20), Requirements Engineering (15/20)
- ◇ **Ferdowsi University of Mashhad**
 - Software Engineering (20/20) Data Structures and Algorithms (20/20), Machine and Language Theory (20/20), Algorithm design (19.6/20), Database design (20/20), Algorithms Design (18.5/20), System analysis and design (16.75/20), Computer networks (18.75/20), Basics of information retrieval and Web search (20/20), Foundations of Data Mining (20/20), Fundamentals of Entrepreneurship (20/20)

OTHER
ACADEMIC
PROJECTS

- ◇ **Network Analysis** 2018
 - Applying variety of techniques for analyzing complex networks such as community detection, link prediction and influence maximization
- ◇ **Text Analysis** 2018
 - Applying variety of techniques for analyzing texts such as news classification, feature extraction, name entity recognition, part of speech tagging, sentiment analysis, word sense disambiguation
- ◇ **Big Data Analysis** 2017
 - Applying map-reduce concepts with unsupervised methods (DBSCAN algorithm) to analyze and cluster big data.
- ◇ **Requirement Engineering** 2017
 - Requirement Engineering of virtual education system
- ◇ **Refactoring Design** 2017
 - Refactoring design and code of the Checkers game with software design patterns
- ◇ **Web Crawler** 2017
 - Implementing a web crawler to retrieve Google Play Store's applications' information
- ◇ **Search Engine** 2017
 - Implementing a search engine in Java
- ◇ **Reverse Engineering** 2015
 - Reverse Engineering of JDownloader software to gain more insight in system design
- ◇ **Multi-cycle CPU Design** 2015
 - Designing and implementing a 32-bit multi-cycle CPU in Verilog HDL.

SKILLS

- ◇ Programming Languages: Java, C/C++, Python, Native Android, SQL, Antlr, MATLAB, Assembly
- ◇ Technical Softwares: Netbeans, Andriod Studio, JetBrains PyCharm, IntelliJ IDEA, Visual Studio, XAMPP, Microsoft Visio, Microsoft Project
- ◇ Machine Learning/Data Mining/Deep Learning: Tensorflow, Weka, Scikit-learn, NLTK, SciPy, Numpy
- ◇ Social Networks and Graph Technologies: Gephi, Networkx
- ◇ Big Data Technologies: Spark (Map-Reduce)
- ◇ Search Engine Technologies: Apache Lucene
- ◇ DB and DW Technologies: Mysql, Hibernate
- ◇ Web Technologies: HTML, CSS, Javascript, .Net Framework
- ◇ Version Control: Git
- ◇ Document Preparation: L^AT_EX, Word

LANGUAGES

- ◇ Persian (native)
- ◇ English (fluent)
- ◇ Arabic (basic knowledge)