

Alireza TORABIAN

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RESEARCH INTERESTS

- Natural Language Processing
- Machine Learning
- Data Mining
- Artificial Intelligence

EDUCATION

2015 - now	Bachelor of COMPUTER Engineering, Amirkabir University of Technology , Tehran <i>Ranked 100 in the world by subject of Engineering</i> GPA: 18.06/20 for 102 units until now
2011 - 2015	Diploma in PHYSICS AND MATHEMATICS DISCIPLINE, Allame Helli High School , Tehran , <i>Ranked 1 in Iran</i> GPA: 18.98/20

RESEARCH AND WORK EXPERIENCES

Jul 2018 - Dec 2018	Research and Development Intern in Developing Persian Question Answering System at <i>Diaalog</i> Diaalog Company Page
Apr 2017 - Sep 2017 Oct 2016 - Feb 2017	Member of S.O.S. vr Team, Research Assistant at Cognitive Robotics Laboratory , Amirkabir University of Technology, Tehran, Iran Supervisor: Dr. Saeed Shiry Ghidary CR Laboratory Page
Sep 2016 - Jun 2017	Founder and Member of Dropout (F.K.A. Lost Soul), Android Game Developer Team Dropout CafeBazaar Page

PUBLICATIONS AND TECHNICAL REPORTS

- M. Ahmadi, Mh. GohariNejad, **Ar. Torabian**. SOSrs Rescue Simulation Virtual Robot **Team Description Paper** 2018. International **RoboCup** Competition, Rescue Simulation Virtual Robot League, **Montreal, Canada Jun 2018** [| Download PDF](#)
- **Ar. Torabian**, A. Gholami, A. Beheshti, N. Karaminejad, A. Rashidbeigi, A. Dizani. **A Deep Analysis of Ethical Dilemmas in Computer Engineering**, Faculty of Computer Engineering, Amirkabir University of Technology, Tehran, Iran, Engineering Ethics Final Project Report **Dec 2017** [| Download PDF](#)
- **Ar. Torabian**, Mh. GohariNejad, M. Ahmadi, S. Azami, S. Shiry. SOSvr Rescue Simulation Virtual Robot **Team Description Paper** 2017. International RoboCup **IranOpen** Competition, Rescue Simulation Virtual Robot League, **Tehran, Iran Mar 2017**

PRESENTATIOS

- **Question Answering System**

Dec 2018

What are the QA systems and why we need them and how to implement them?

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TEACHING ASSISTANTSHIPS

Artificial Intelligence: Dr. Nickabadi	Sep 2018 – Present
Data Structure and Algorithms: Dr. Bagheri	Sep 2018 – Present
Principles of Computer and Programming: Dr. Shiry Ghidary	Sep 2018 – Present
Artificial Intelligence: Dr. Nickabadi	Feb 2018 – Jun 2018
Data Structure: Prof. Dehghan Takht Fooladi	Sep 2017 – Jan 2018

HONORS AND AWARDS

- **Second Place** in the Rescue Simulation Virtual Robot League with SOSvr Team at Robocup Nagoya, Japan, 2017
- Ranked **2nd** among all Software Engineering Students, Class of 2015, Amirkabir University of Technology, Tehran, Iran, 2016
- Ranked **524th** among **180,000** Participants in the Nation-wide Iranian University Entrance Exam in Math and Physics, 2015
- **Qualified** for the Second Round of the **Iranian Mathematical Olympiad**, Iran, 2013
- **Accepted** in **NODET High School** Entrance Exam, National Organization for Development of Exceptional Talents, **Allame Helli**, Tehran, Iran 2011

COMPUTER SKILLS

Languages:	C++, Java, Python, Go, VHDL, Verilog, AVR Assembly
Frameworks and Tools:	Tensorflow, Numpy, Gensim, Scikit, Pandas, Lucene, NLTK
Databases:	MySQL, SPARQL
Web Programming:	HTML, CSS, JavaScript, jQuery, PHP
Application Development:	Android, ReactNative
Operating Systems:	Linux(Ubuntu), Mac OS, Windows

NOTABLE PROJECTS

- **RNN Language Model**, Word sequence prediction using RNN, 2018
- **QA Clustering**, Clustering the answers by some methods, 2018
- **NUMEX Interpreter**, An interpreter using functional language named Racket, 2018
- **C to SAYEH Compiler**, A compiler for **SAYEH** processor, 2017
- **Classical Search** and **Local Search** algorithms, AI Course Project, 2017
- **Search Engine**, Data Structure Course Project by Java, implementation of BST, AVL (Balanced BST), TST, Balanced TST, Trie and HashMap using chaining approach based on LinkedList, 2016
- **Exile** Game developed by Lost Soul android game developer team, 2016
- **Pacman** Game, Advanced Programming Course Project by Java, 2016

LANGUAGES

PERSIAN: Native
ENGLISH: Intermediate

REFERENCES

Available Upon Request.

Last update: Dec. 2018