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 Polytechnic)** *Ranked 100 in the world by subject of Engineering* GPA: **18.06/20** for 102 units until now
2011 - 2015	Diploma in Physics and Mathematics Discipline, **Allame Helli High School**, Tehran *Ranked 1 in Iran* GPA: **18.98/20**

Research and Work Experiences

Jul 2018 - Dec 2018	**Research and Development Intern in Developing Persian Question Answering System** at *Diaalog* | 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? | Slide-Share Page
                                                                                        | Download Slide

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 alongside 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 Nationwide 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: Fair

References

Ahmad Nickabadi,   **Assistant Professor**   Email: nickabadi@aut.ac.ir
Saeed Shiry Ghidary, **Assistant Professor**   Email: shiry@aut.ac.ir

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