Soroush Omidvar Tehrani

👤 Personal Data

Birth Place	Mashhad, Khorasan Razavi Province, Iran
Birth Date	10 April 1995
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Education

2017–2019 **M.Sc. in Computer Engineering (Network branch)**, *Department of Computer Engineering*, Ferdowsi University of Mashhad, Iran.
- Total GPA: 17.53/20
- Last year GPA: 18.53/20

2013–2017 **B.Sc. in Computer Engineering (Hardware branch)**, *Department of Computer Engineering*, Ferdowsi University of Mashhad, Iran.
- Total GPA: 16.56/20
- Last 2 years GPA: 17.73/20

Research Interests

IoT-based Data Mining
Artificial Intelligence
IoT Security

Publications

2019 Extracting Effective Features for Descriptive Analysis of Household Energy Consumption using Smart Home Data

2019 Analysis of electricity consumption in smart homes using time hierarchy

2018 FUMBOT: Design, Implementation and Detectoin

Honors

2019 Winner of the best paper award in the TopHPC (High Performance Computing and Big Data Analytics) congress

2017 Ranked 2nd among B.Sc. Computer Engineering students graduated in the year 2017 and got accepted for M.Sc. at Ferdowsi University without entrance qualification exam

Master Thesis

Title	*Data-stream-based anomaly detection for smart meters in power grid*
Supervisor	Dr. Mohammad Hossein Yaghmaee Moghaddam

Advisor	Dr. Mohsen Asadi
Description	One aspect of using IoT in smart homes is measuring the power consumption of the devices (using smart meters) and recognizing their usage patterns. Smart meters data could help decision-makers for power consumption management, and due to the large volume of data, big data and data mining methods should be used for their analysis. Decision making and anomaly detection based on received data Increase the need for online processing. The purpose of this project is implementing a system for the online processing of smart meters data and anomaly detection based on them.

Teaching Experiences

2015 - 2019	**The Theory of Formal Languages and Automata**, *Teacher Assistant and Project Supervisor*, Department of Computer Engineering. Dr. Abdorreza Savadi
Spring 2017	**Artificial Intelligence**, *Teacher Assistant and Project Supervisor*, Department of Computer Engineering. Dr. Ahad Harati
Fall 2016	**Fundamentals of Compiler Design**, *Teacher Assistant and Project Supervisor*, Department of Computer Engineering. Dr. Haleh Amintoosi
Fall 2015	**Digital System Design**, *Project Supervisor*, Department of Computer Engineering. Dr. Mariam Zomorodi Moghadam
Fall 2014	**Discrete Mathematics**, *Teacher Assistant*, Department of Computer Engineering. Dr. Mostafa Nouri Baygi

Related Courses

Data Mining: 19.5/20

Artificial Intelligence: 19.1/20

Wireless Networking Basics: 19/20

Distributed Systems: 18.3/20

Advanced Computer Networks: 18/20

Computer Networks: 17.9/20

Secure Computer Systems: 20/20

Programming

Java	Professional	*2013 - Present*
Matlab	Intermediate	*2017 - Present*
Android	Intermediate	*2015 - Present*
Antlr	Intermediate	*2014 - Present*
Python	Basic	*2018 - Present*
C++	Basic	*2014*

Familiar with:

Go, VHDL, Linux Shell Programming, Markup Languages, ARM ST Microcontrollers

Computer skills

LATEX, Git, Linux OS commandline (based on LPIC1), Microsoft Office, IntelliJ IDEA, PyCharm, Android Studio, ANTLRWorks,

Memberships

2019	IPPBX Lab, Department of Computer Engineering, Ferdowsi University of Mashhad.
2016 - 2019	CCL Lab, Department of Computer Engineering, Ferdowsi University of Mashhad.

Hobbies and Interests

Books, Movies and Music

Travelling

Astronomy

References

Dr. Mohammad Hossein Yaghmaee Moghaddam

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Dr. Haleh Amintoosi

Emails: amintoosi@um.ac.ir | h.amintoosi@gmail.com

Dr. Behshid Behkamal

Email: behkamal@um.ac.ir