General Information:

Name: Atieh Monemi Bidgoli

Linked Addresses: Scholar, LinkedIn

Email Addresses: monemiatieh@gmail.com

Academic Qualifications:

Ph.D. Software Engineering, Shahid Beheshti University, 2014-2020, Thesis Title: "Effective and Efficient Test Data Generation Using Static Information of the Program" Supervisor: Dr Hassan Haghighi

M.Sc. Software Engineering; Sharif University of Technology, 2010-2012, Thesis Title: "A Method for Comparing Effectiveness and Efficiency of Grammar-Based Testing Criteria" Supervisor: Dr. Seyed Hassan Mirian Hosseinabadi.

B.Sc. Software Engineering, University of Kashan; 2006-2010, Thesis Title: "Data Mining on Educational Database of University of Kashan by using GRI Method"

Research Interests:

- Software Testing
- Data Mining and Machine learning
- Formal Program Verification

Publications:

- ## Journals

Atieh Monemi and Hassan Haghighi, " Analyzing program conditional statements to reduce the input domain in test data generation", submitted.

Atieh Monemi and Hassan Haghighi, "Using Static Information of Programs to Partition the Input Domain in Search-based Test Data Generation", Information Systems & Telecommunication (2020): 238.

Atieh Monemi and Hassan Haghighi, "Augmenting ant colony optimization with adaptive random testing to cover prime paths", Journal of Systems and Software 161 (2020): 110495.

- ## Conference papers

Atieh Monemi, Hassan Haghighi, "A new approach for search space reduction and seeding by analysis of the clauses", International Symposium on Search Based Software Engineering. Montpellier, 2018.

Atieh Monemi, Hassan Haghighi, Tahere Zohdi-Nasab and Hamideh Sabouri, "Using Swarm Intelligence to Generate Test Data for Covering Prime Paths", International Conference on Fundamentals of Software Engineering, 2017.

Atieh Monemi, Hassan Haghighi and Hamideh Sabouri, "Classification of the search space in search based test data generation", CSICC 2017 (Persian).

Atieh Monemi, Ahmad Yoosofan, Aboulfazl Khedmati, "Data Mining on the Education Database of University of Kashan by GRI Method and Analyzing Outcomes", The Seventh Iran Data Mining Conference/IDMC 2013, Tehran, Iran (Persian).

- ## **Technical Reports**

Atieh Monemi and Hassan Haghighi, "Efficiently Generation of Effective Test Data Using Static Information of the Program", Software testing and verification laboratory, Shahid Beheshti University, Tehran, Iran, 2020

Atieh Monemi and Seyed-Hassan Mirian-Hosseinabadi, "A Method for Comparing Effectiveness and Efficiency of Grammar-Based Testing Criteria", Software Quality Research Laboratory, Computer Engineering Department, Sharif University of Technology, Tehran, Iran, 2012.

Experience:

- ## **Visiting Researcher**

Westerdals Oslo ACT, Oslo Area, Norway, May 2017-November 2017

- ## **Industry-University Collaboration projrcts**

Software Designer, Shahid Beheshti University, National Project, "Developing a reference software model for enterprise architecture in Iranian Information Technology Organization" 2017-2019

Functional Test Designer; Sharif University of Technology; National Project "Integrated Tax System" (ITS); 2012-2017

- ## **Teaching**

Data structures and algorithms, University of Kashan (1 semester)

Software Engineering, University of Kashan (3 semesters)

The principles of Software Design, University of Kashan (2 semesters)

The basics of Programming, Shahid Beheshti University and University of Kashan (1 semester)

- ## **Teaching Assistant**

Software Testing, Sharif University of Technology (4 semesters)

Honors and Awards:

- A scholarship from Iran Ministry of Science, Research and Technology for Westerdals Oslo ACT (Communication and Technology group), Norway, 2017.
- Ranked 27th in Ph.D. National Competitive Examine in Computer engineering, 2014
- Ranked 36th in M.Sc. National Competitive Examine in Computer engineering, 2010

- Ranked 32th in the final stage at 15th National Science Olympiad, 2010
- Ranked 4th in Semi-Intensive Stage at 15TH National Science Olympiad at Fifth Pole, 2010
- Placed 2nd among all of computer engineering B.Sc. student at University of Kashan,2010.

Workshop Attendance:

- 11th Conference on Information and Knowledge Technology/IKT2020, Tehran, Iran.
- 10th Symposium on Search-Based Software Engineering/SSBSE2018, Montpellier, France.
- 7th International Conference on Fundamentals of Software Engineering/FSEN2017, Tehran, Iran.
- 22nd National CSI Computer Conference/CSICC2017, Tehran, Iran
- The Seventh Iran Data Mining Conference/IDMC2013, Tehran, Iran.

Graduated Courses

- Decision Support System
- Software Design Pattern
- Software Testing
- Data Mining
- Advanced Software Testing
- Bio inspired System
- Formal Program Verification