

Taha Rostami - Curriculum Vitae

Personal Data

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Education

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| ❖ Tarbiat Modares University (TMU), Tehran | 2019-2022 (Oct.) |
| ❖ MSc in Software Engineering | |
| ❖ GPA: 3.88/4.0 out of 26 credits | |
| ❖ Thesis Title: Selecting fault revealing mutants using Ensemble Learning | |
| ❖ Supervisor: Dr. Jalili | |
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| ❖ Babol Noshirvani University of Technology (BNUT), Babol | 2014-2019 (Jul.) |
| ❖ BSc in Software Engineering | |
| ❖ GPA: 3.55/4.0 out of 140 credits | |
| ❖ Thesis Title: Automation of Course-Selection Process by Schedule Recommendation | |
| ❖ Supervisor: Dr. Sakhaei | |
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Awards

Academic

- ❖ Outstanding student, ranked 1st at Computer Engineering Dept., TMU, Tehran, Iran, 2021
- ❖ Scholarship for MSc in Software Engineering study at TMU, 2019
- ❖ Scholarship for BSc in Software Engineering study at BNUT, 2014

Others

- ❖ Iran Chess Premier League, 1st with Asa Saraye Sameh Team, 2013
- ❖ Ranked 3rd place in Asian youth Blitz chess championships, with Iranian National Team, Southern, Sri Lanka, 2012
- ❖ Iran Chess League One, 3rd with Asa Saraye Sameh Team, 2011
- ❖ Ranked 1st place in Calligraphy Competition, Mazandaran, Iran, 2007

Research Interests

- ❖ Text Analysis- anything that is represented textual, e.g., source code of a program, natural language text, clinical text, etc.
- ❖ Computational Logic and Reasoning- both classical and probabilistic one
- ❖ Constraint Satisfaction Problems- especially from the practical perspective, i.e., by formulating and solving real-world problems such as the ones raised in software verification and using tools such as Z3

- ❖ Machine Learning Algorithms- classical and symbolic ones, reinforcement learning, and deep learning; moreover, enjoy thinking in-depth about ensemble learning methods
- ❖ Complexity Theory & Designing Algorithms- it is an old but lifelong appetite to someday work in depth on it

Publications

- ❖ T. Rostami, S. Jalili, "Predicting useful mutants by fine-tuning the UniXcoder pre-trained model," prepared not submitted yet, 2023
- ❖ T. Rostami, S. Jalili, "Predicting fault-revealing mutants based on mutant killing severity," submitted to Information and Software Technology, Under Review, 2023
- ❖ T. Rostami, "An interpretable model for predicting non-trivial equivalent mutants of the MART," submitted to The Journal of Systems & Software, Under Review, 2023 [\[preprint\]](#)
- ❖ T. Rostami, S. Jalili, "A heuristic function for improving the prediction accuracy of fault revealing mutants," in 9th Iranian Joint Congress on Fuzzy and Intelligent Systems, 2022 [\[link\]](#)
- ❖ T. Rostami, S. Jalili, "A method for improving predictive mutation testing that considers the impacts of missing data," in 12th International Conference on Information and Knowledge Technology, 2021

Selected Academic Projects

- ❖ DeepRL_EmotionRecognition_UsingEEGsignals: This is a project that I collaborated on with a friend. We used Deep Reinforcement Learning to recognize emotions based on EEG signals, 2021 [\[link\]](#)
- ❖ B.Sc project (Harif): Design and Implementation of a graph-based automatic course-selection system that recommends schedules based on student's preferences, 2018 [\[link\]](#)
- ❖ NitPhoneBook: Design and Implementation of an algorithm and software for Babol Noshirvani University of Technology to solve their problem with their out-of-the-date phone-book tools, 2018 [\[link\]](#)

Work Experience

- ❖ Faradars– Teaching Consuming Web Services in C# at a Well-known Educational Website *Faradars*, 2021 [\[link\]](#)
- ❖ RADMAN- Web Developer as an Intern, 2019
- ❖ BNUT- Teaching Assistant Advanced Programming, 2017
- ❖ Behineh System- Software Developer as an Intern, 2015
- ❖ Asasaraye Same- Chess Player, 2011-2013

Languages

- ❖ Persian - native
- ❖ English – TOEFL iBT: Total 93, Reading 28, Listening 21, Speaking 22, Writing 22, April 01, 2023

References

- ❖ Saeed Jalili, Associate Professor of Computer Science, TMU, sjalili@modares.ac.ir [\[g.scholar\]](#) [\[homepage\]](#)
His research interests are included, but not limited to, Data Mining, Search-Based Software Engineering, and Formal Methods.
- ❖ Ali Gholami Rudi, Assistant Professor of Computer Science, BNUT, gholamirudi@nit.ac.ir [\[g.scholar\]](#) [\[homepage\]](#)
His research interests include Computational Geometry, Combinatorial Algorithms, and Parallel Processing.
- ❖ Hesam Omranpour, Assistant Professor of Computer Science, BNUT, h.omranpour@nit.ac.ir [\[g.scholar\]](#) [\[homepage\]](#)
His research interests include Artificial Intelligence, Machine Learning, Biomedical Engineering, and Evolutionary Computation.