Taha Rostami - Curriculum Vitae

Personal Data

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Education

- 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

- 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

Awards

Academic

- Outstanding student, ranked 1st at Computer Engineering Dept., TMU, Tehran, Iran, 2021
- Highly Competitive Scholarship for MSc in Software Engineering study at TMU, 2019
- Highly Competitive 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 [link]
- T. Rostami, S. Jalili, "Predicting fault-revealing mutants based on mutant killing severity," submitted to Information and Software Technology, Under Review, 2023 [link]
- T. Rostami, "An interpretable model for predicting non-trivial equivalent mutants of the MART," submitted to The Journal of Systems & Software, Under Review, 2023 [link]
- 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 [link]

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.