
VAHID ETEMADI

<http://vahidetemadi.github.io>

Shiraz University of Technology, Shiraz, Iran

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RESEARCH INTERESTS

Software engineering, Software socio-technical analysis, Empirical software engineering, Artificial intelligence, Search-based software engineering, Machine learning

EDUCATION

Shiraz University of Technology, Shiraz, Iran

Aug 2014 - Sep 2021

Ph.D. in Information Technology, Software Engineering and Distributed Systems Lab, Department of Computer Science and IT.

Thesis: Software Change Management as A Service: A Self-Adaptive Approach

K. N. Toosi University of Technology (KNTU), Tehran, Iran

Aug 2012 - Aug 2014

M.Sc. in Management Information Systems, Data Mining Group, Department of Industrial Engineering.

Thesis: Improving Recommendation Systems in Social Networks Using Profile Mining

Shiraz University of Technology, Shiraz, Iran

Aug 2008 - Aug 2012

B.Sc. in Information Technology Engineering, Department of Computer Engineering and IT.

Thesis: Content and Service Distribution over Cloud Computing Environments

PROFESSIONAL EXPERIENCE

Graduate Researcher at Distributed Systems Lab, Shiraz University of Technology Shiraz, Iran

Aug 2014 - Sep 2021

Making software maintenance more automated through focusing on bug locating and task assignment. Providing a scheduling-driven approach to minimize the *Time* and the *Cost* in bug fixing assignments during maintaining software.

Involving *Knowledge Diffusion* as the key objective during fixing task assignment for making development team more robust to developer churn (increasing sustainability).

Internship in Open Source Software Engineering at Pajouhan Matin, Shiraz Technological Park, Shiraz, Iran

Aug 2019 - Dec 2019

Contributing to open source software such as mxGraph to make it a fit for BPMN systems.

Requirement modeling in UML notation using Visual Paradigm tools.

Adopting software design patterns for machine learning applications.

Visiting Researcher at Universidad Rey Juan Carlos, Madrid, Spain

Apr 2018 - Dec 2018

Visiting LibreSoft lab at the Department of Telecommunication Engineering under the supervision of Prof. Gregorio Robles and Prof. Jesús M. González-Barahona.

Software Engineer at AsreTelecom, Shiraz Branch, Shiraz, Iran

Sep 2015 - Oct 2017

Developing and maintaining MS SQL server databases, implementing the main process which take place inside ASAN Internet Service Provider company, designing and implementing reporting dashboards.

Graduate Researcher at IE-Data Mining Group K. N. Toosi University of Technology, Tehran, Iran

Sep 2012 - Sep 2014

Working on a sample network retrieved from *Facebook.com* to propose a hybrid friend recommendation system.

PUBLICATIONS

Etemadi, V., Gonzalez-Barahona, Jesus M., Robles, G., 2021. *I want to invest in an OSS project: Shall I hire Insiders or Outsiders?*, Accepted for presentation in BENEVOL 2021

Etemadi, V., Bushehrian, O. and Robles, G., 2021. *Task assignment to counter the effect of developer turnover in software maintenance: A knowledge diffusion model*. Information and Software Technology, 143, p.106786.

Etemadi, V., Bushehrian, O., Akbari, R. and Robles, G., 2021. *A scheduling-driven approach to efficiently assign bug fixing tasks to developers*. Journal of Systems and Software, 178, p.110967.

Etemadi, V., Bushehrian, O. and Akbari, R.: *Association rule mining for finding usability problem patterns: A case study on StackOverflow*, In 2017 International Symposium on Computer Science and Software Engineering Conference (CSSE), pp. 24-29. IEEE, 2017

Emami, M., **Etemadi, V.**, Bushehrian, O. *A component-based content distribution network architecture in cloud environments*. In 2015 2nd International Conference on Knowledge-Based Engineering and Innovation (KBEI), pp. 330-335. IEEE, 2015.

REVIEWER/SERVICES

MSR hackaton (PC member) 2021

SQJO: Software Quality Journal, Springer 2021

ISTE: Iranian Journal of Science and Technology, Transactions of Electrical Engineering 2019

TEACHING

Lecturer, Faculty of Electronic Learning, Shiraz University, Shiraz, Iran 2019
Course: Advanced Programming in JAVA

Teaching Assistant, Shiraz University of Technology, Shiraz, Iran 2019
Course: Computer Architecture

Instructor, Shiraz University of Technology, Shiraz, Iran 2016 - 2017
Course: Database Systems Lab

Lecturer, Faculty of Electronic Learning, Shiraz University, Shiraz, Iran 2016 - 2017
Course: Multimedia Systems

Teaching Assistant, Shiraz University of Technology, Shiraz, Iran 2015 - 2016
Course: Software Engineering

AWARDS AND HONORS

Student volunteer at 43th International Conference on Software Engineering (ICSE), Madrid, Spain 2021

Graduate Research Assistant, Shiraz University of Technology 2014 - 2021

Won the travel grant for visiting LibreSoft research group in the Department of Telecommunication Engineering at URJC, Madrid, Spain (2018)

Student volunteer at 34th International Conference on Software Maintenance (ICSME), Madrid, Spain
2018

Travel Grant from Bitergia to attend 11th Seminar on Advanced Techniques & Tools for Software Evolution (SATToSE) 2018

Full tuition waiver scholarships for full time master of science students, K. N. Toosi University of Technology. 2012 - 2014

Full tuition waiver scholarships for full time undergraduate students, Shiraz University of Technology. 2008 - 2012

Ranked top 2% nationwide university entrance exam for Bachelor of Science among more than 300,000. 2008

PRESENTATIONS

Fourth Madrilenian Seminar on Software Research (MADSESE), Universidad Alcalá de Henares, Spain May 9th 2018

Title: Software Change Management as A Service: A Self-Adaptive Approach

11th Seminar on Advanced Techniques & Tools for Software Evolution - (SATToSE 2018), Athens, Greek June 2018

Presented in open MIC

Title: Self-Adaptive Software Maintenance

SAMPLE COURSES (ACCOMPLISHED)

Advanced Distributed Systems

Semantic Web

Artificial Intelligence

Data Mining

Software Development Management

Database Systems

Algorithms Design

Software Testing

CERTIFICATES

Social Network Analysis

DEC 2013

Grade Achieved: 78.9%

Instructor: Prof. Lada Adamic

Delivered by Coursera.org

PROFICIENCY

Back-end: *Advanced Knowledge of JavaSE, Spring boot, Experience with Python and C#, Familiar with Scala, PHP, Nodes.js*

Front end: *JavaScript, HTML, CSS, Familiar with Vue.js.*

CI/CD: *Docker, Experience with Jenkins, Knowledge of GitHub action*

Web-Service: *Experience with REST, Familiar SOAP, GraphQL.*

Database: *Microsoft SQL, MySQL, PostgreSQL, Familiar with Elasticsearch, Firebase.*

Software Design (&Tools): *Object-Oriented Design, UML, Visual Paradigm, UML Rational Rose.*

Test: *Defect and Bug Discovery, JUnit, Mockito.*

Version control: *Git, Team foundation server*

Analytical Tools: *Weka, Gephi.*

ML: *Familiar with PyTorch*

Semantic-analysis: *Knowledge of OWL, RDF, XML, Familiar with Apache Jena, Protégé.*

Operating systems: *Linux, Windows.*

Big data: *Apache Spark.*

REFERENCES

Available upon request.