# VAHID ETEMADI

http://vahidetemadi.github.io
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## RESEARCH INTERESTS

Software engineering, Software modeling, Software socio-technical analysis, Software testing, Human-computer interaction

## EDUCATION

**Shiraz University of Technology, Shiraz, Iran**  *Aug 2014 - Sep 2021*
Ph.D. in Information Technology, 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**  *2014 - Present*
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 - December 2019*
Contributing to open source software such as mxgraph to make it a fit for BPMN system.
Requirement modeling in UML notation using Visual Paradigm tools.
Applying software design pattern on machine learning application.

**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 Dr. Gregorio Robles.

**Software Engineer at AsreTelecom, Shiraz Branch, Shiraz, Iran**  *2014 - 2018*
Developing and Maintaining SQL Server Database, Implement the Main Process Behind an Internet Service Provider Company, Design and Implement Reporting Dashboards.

**Graduate Researcher at IE-Data Mining Group K. N. Toosi University of Technology, Tehran, Iran**  *Sep 2012 - Feb 2014*
Working on a sample network retrieved from *Facebook.com* to propose a hybrid friend recommendation system.

## PUBLICATIONS

**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 Journal [Under Review].

**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

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

Graduate Research Assistant, Shiraz University of Technology          *Fall 2014 - Present*

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

Student volunteer at 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**
**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, C# and Scala, Familiar with PHP, Nodes.js, Express.*
**Front end:** *JavaScript, HTML, CSS, Angular JS(Beginner).*
**Containers:** *Familiar with Microsoft IIS, Docker.*
**Web-Service:** *Experience with REST, Familiar SOAP, GraphQL.*
**Database:** *Microsoft SQL, MySQL, Familiar with Elasticsearch, Firebase.*
**Software Design (&Tools):** *Object-Oriented Design, UML, Visual Paradigm, UML Rational Rose.*
**Test:** *Defect and Bug Discovery, JUnit.*
**Analytical Tools:** *Weka, Gephi.*
**Meta-analysis:** *Knowledge of OWL, RDF, XML; Experience with Apache Jena, Protégé.*
**Operating systems:** *Windows, Linux.*
**Big data:** *Apache Spark.*

## REFERENCES

Available upon request.