

SHIRIN ABBASI

PROFILE

- Software Engineering Ph.D.
- Researcher
- Product Manager
- Experienced Software Analyst

CONTACT

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HOBBIES

Theater
Literature

EDUCATION

Islamic Azad University, Science and Research Branch Iran-Tehran

Doctor of Philosophy - PhD
2017-2023

Computer Software Engineering

Thesis: Fault tolerance and cost aware architecture modeling in Internet of Vehicles:

- Propose a mathematical model with CPLEX
- Propose a fault-tolerant adaptive genetic algorithm that is implemented with Java.

Experiences:

- Software Design and Architecture in IIoT and CPS Review
- Software Test in Digital Twin Review
- Business Intelligent and Cloud Computing Review-
- Big Data Filtering and Processing Review

Islamic Azad University Central Tehran Branch Iran-Tehran

Master of Science
2012-2015

Computer Software Engineering

Thesis: propose a Big Data clustering algorithm with Hadoop and Java

Experiences:

- Parallel algorithm with MPI.NET
- ATAM Software Architecture Model
- Knowledge-Based system test
- Context Awareness with mobile sensor
- Cloud Storage Security

Islamic Azad University North Tehran Branch Iran-Tehran

Bachelor of Science
2006-2010

Computer Software Engineering

Thesis: website design and implementation with RUP method and .NET Programming

Experiences:

- Database Design
- website design with DotNetNuke
- Software Engineering and Design in the RUP method and with UML
- working with C# and Asp.net for website option improvement

EXPERIENCE

Adanic- Product Manager

Iran-Tehran
May 2024-Present
Providing Product Map
Team Management
Extracting Tasks from documentation
Creating and tracking Tasks on Jira
Task scheduling for team members

Shakeylead- Product Manager

Iran-Tehran
October 2021-June 2023
Providing user stories and BDD Scenarios based on Stakeholder requirements
Team Management
Extracting Tasks from documentation
Creating and tracking Tasks on Jira

Task scheduling for team members

FaraFanFarzan- Software Analyst-Product Owner

Iran-Tehran

February 2017-June 2021

Analyst on Citizen Services Systems

Team management

Provide user stories and BDD Scenarios

Holding Sessions with Stakeholders

Extracting Tasks from documentation

Creating and tracking Tasks on Jira

ARK Group -Software Expert

Iran-Tehran

March 2016-January 2017

- developing software in VB

- software documentation and analysis for the YAAS system

- programming android for the SMS system in the YAAS system

Tehran Institute of Technology- Software Analyst

Iran-Tehran

May 2014-April 2015

software analyst on Financial systems and Human Resources systems

TEACHING

University of Science and Culture

Iran -Tehran

Oct 2024- Present

Computer Department

"Programming languages Implementation and Design", with 30 students

Islamic Azad University, Science and Research Branch

Iran -Tehran

Oct 2023- February2024

Computer Department

"Computer Fundamental" with 115 students

"Operating System Lab" with 8 students

ACHIEVEMENT

Journal Reviewer:

❖ **Reviewer for 115 papers (Updated on July 2024)**

❖ **Elsevier**

- Applied Soft Computing
- Biomedical Signal Processing and Control
- Computer Communication
- Computers & electrical engineering
- Computers & industrial engineering
- Computers & security
- Computers in biology and medicine
- Sustainable computing
- Vehicular communications

❖ **Springer**

- Health information science and systems
- Journal of Ambient Intelligence and Humanized Computing
- Multimedia Tools and Applications
- The journal of supercomputing
- Wireless networks

❖ **IEEE**

- IEEE transactions on circuits and systems

❖ **Wiley**

- International Journal of Communication Systems
- IET networks

- Transactions on emerging telecommunications technologies

❖ Peerj

Conference Reviewer:

- Reviewer - 3rd International Workshop on TC-CPS: Time-Critical Cyber Physical Systems-2020
- Reviewer - IEEE/ACM DS-RT 2019
- Reviewer - IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications-2019
- Reviewer - the National Conference on Knowledge and Technology of Electrical, Mechanical and Computer Engineering -5 courses
- Reviewer - the National Conference on Knowledge and Technology of Iranian Engineering Sciences -5 courses
- Reviewer - the International Conference on Electrical and Computer Engineering, University of Tehran
- Reviewer - the National Conference on Applied Research in Engineering Sciences of Iqbal Lahori Higher Education Institute
- Reviewer- the International Web Exploration Conferences-3 courses
- Reviewer- EAI International Conference on Tools for Design, Implementation, and Verification of Emerging Information Technologies-2021

Awards:

- Best Reviewer grade in 3rd International Workshop on TC-CPS 2020

PUBLICATIONS

Journal papers

- **Abbasi, Shirin**, Navid Khaledian, and Amir Masoud Rahmani. "Trust management in the internet of vehicles: a systematic literature review of blockchain integration." *International Journal of Information Security* (2024): 1-24.
- Alenizi, Farhan A., **Shirin Abbasi**, Adil Hussein Mohammed, and Amir Masoud Rahmani. "The Artificial Intelligence Technologies in Industry 4.0: A Taxonomy, Approaches, and Future Directions." *Computers & Industrial Engineering* (2023): 109662.
- **Abbasi. Shirin**, and Amir Masoud Rahmani. "Artificial intelligence and software modeling approaches in autonomous vehicles for safety management: a systematic review." *Information* 14, no. 10 (2023): 555.
- **Abbasi. Shirin**, Amir Masoud Rahmani, Ali Balador, and Amir Sahafi. "A fault-tolerant adaptive genetic algorithm for service scheduling in the internet of vehicles." *Applied Soft Computing* (2023): 110413.
- Hosseinzadeh, Mehdi, **Shirin Abbasi**, and Amir Masoud Rahmani. "Resource Management approaches to Internet of Vehicles." *Multimedia Tools and Applications* (2023): 1-34.
- **Abbasi. Shirin**, Amir Masoud Rahmani, Ali Balador, and Amir Sahafi. "Internet of Vehicles: Architecture, services, and applications." *International Journal of Communication Systems* 34, no. 10 (2021): e4793.
- **Abbasi. Shirin**, Vaziri.Babak," Big data, Definition and Challenges", *Journal of Energy and Power Engineering, USA*, July 2016
- **Abbasi. Shirin**, Vaziri.Babak," Clustering Algorithms in Big Data", *International Academic Journal of Science and Engineering*, September 2015

Conference papers

- **National and international conference Papers indexed in:**

Accepted papers:

- "An Accident Avoidance and Warning Method Based on the Particle Swarm Optimization Algorithm in the Internet of Vehicles" (**Shirin Abbasi**, Amir Masoud Rahmani, Ali Balador, Amir Sahafi)-Springer-Soft Computing-(Q2- IF: 4.1)- Accepted on 27 March 2024.

Submitted papers:

- "Role of Artificial Intelligence in the Internet of Things: Application Perspectives" (Saeed Saeedvand, Rahim Sharifov, Sara Shamilova, Behnam Kiani Kalejahi, **Shirin Abbasi**, Amir Masoud Rahmani)- Springer- Wireless Personal Communications- October 2022- (Q2-IF: 2.017)
- "A Survey of Internet of Things Technologies for Elderly Healthcare" (**Shirin Abbasi**, Navid khaledian, Amir Masoud Rahmani)- Evolutionary Intelligence- Springer- October 2024- (Q3, IF: 2.4).
- "The Rise of Large Language Models: Evolution, Applications, and Future Directions" (Atefeh Hemmati, **Shirin Abbasi**, Amir Masoud Rahmani)-engineering applications of artificial intelligence, Elsevier, September 2024- (Q1-IF: 7.5)
- "Social Internet of Things; Social IoT applications; Architecture; IoT platforms", (Mozhgan Malekshahi Rad, **Shirin Abbasi**, Amir Masoud Rahmani)-Computer networks, Elsevier, September 2024- (Q1-IF: 4.4)
- "A Prompt Tuning Method for LLM-Based Applications in Autonomous Vehicles", (**Shirin Abbasi**, Atefeh Hemmati, Amir Masoud Rahmani)- IEEE Intelligent Transportation Systems Magazine, IEEE, October 2024- (Q1-IF: 4.4)

Book chapters:

- "GANs usecases & applications" (**Shirin Abbasi**, Amir Masoud Rahmani)-Quantum Computing & Generative Adversarial Networks (GANs)- Degruyter Publications- Under Review- March 2024

RESEARCH INTERESTS

- IoT application and service management for smart city
- IoV application and services management
- Big data management
- Artificial intelligence algorithms and approaches
- Large Language Models (LLMs)

CERTIFICATES

- "Prompt Engineering for Everyone" provided by " IBM Developer Skills Network"- Feb 2024.
- "Introduction to Generative Adversarial Networks (GANs)" provided by "LinkedIn"- September 2023.
- "Introduction to Quantum Computing" Provided by "LinkedIn"-September 2023.
- "Artificial Intelligence Foundations: Machine Learning" Provided by "LinkedIn"-August 2023.
- "IoT (Internet of Things) Security Concepts 2021" Provided by "Udemy"-July 2022.
- "Artificial Intelligence Foundations: Neural Networks" Provided by "LinkedIn"-September 2020.
- "Business Analysis Body of Knowledge" Provided by "MPT Academy"-May 2020.

SKILLS

- **Java:** Intermediate
- **Cplex:** Intermediate
- **Enterprise Architect:** Expert
- **Jira :** Expert
- **SQL server :** Intermediate
- **Oracle:** Basic
- **Python:** Basic