

# Parisa Rahmani

*Job Title: Assistant professor of a university*  
*Total Experience: 17 years*

---

## **Institution:**

- Islamic Azad University, Pardis Branch, Pardis New City, Iran

## **Department:**

- Computer Engineering

---

## *Personal Information*

**First Name:** Parisa  
**Last Name:** Rahmani

---

## *Contact Address*

**Tel (Mobile):** +98- 76281011  
**E-mail Address:** rahmani.engineer@gmail.com & Rahmani@pardisiau.ac.ir  
**Research gate** <https://www.researchgate.net/profile/Parisa-Rahmani-5>  
**Google Scholar:** [https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&user=SSHeC74AAAAJ](https://scholar.google.com/citations?view_op=list_works&hl=en&user=SSHeC74AAAAJ)  
**ORCID:** <https://orcid.org/0000-0003-3324-2359>

---

## *Research gate H-index: 4.7*

Page in Research gate:

<https://www.researchgate.net/profile/Parisa-Rahmani-5>

## *Google scholar H-index: 5*

Page in google scholar:

[https://scholar.google.com/citations?view\\_op=list\\_works&hl=en&user=SSHeC74AAAAJ](https://scholar.google.com/citations?view_op=list_works&hl=en&user=SSHeC74AAAAJ)

---

## *Education*

### **Ph.D:**

Islamic Azad University Branch of **Science and Research of Tehran. (2017)**

PHD, Computer Science, Computer Engineering

**Advisor:** Prof Hamid Haj Seyyed Javadi and Prof Hamidreza Bakhshi.

**Thesis:** Topology Control in Cognitive Mobile Adhoc Network.

### **MSc:**

Islamic Azad University Branch of **Qazvin (2006)**

Master's degree in Computer Engineering.

**Advisor:** Prof Mohamadreza Meybodi, Prof Abolfazl Toroghi Haghighat.

**Thesis:** Routing in Network by Multiple Ant Colony.

### **BSc:**

Islamic Azad University Branch of **Qazvin (2003)**

Bachelor's degree in Computer Engineering.

**Advisor:** Prof Ali Rashidi.

**Thesis:** Educational Software.

---

## *Academic Position*

- Assistant Professor Islamic Azad University, Pardis Branch (2008-now)
  - Head of Department of Computer Engineering Islamic Azad University, Pardis Branch (2014-2020)
  - Head of Department of Computer Engineering Islamic Azad University, Electronic Branch (2019-now)
  - Head of Technology Incubator of Islamic Azad University, Pardis Branch (2021-now)
- 

## *Research interested*

- Machine Learning
- Cognitive Network
- Energy Consumption
- Resource Allocation
- Routing
- Channel allocation
- Mobile Ad hoc Network

## *Summary of Academic Activity*

- Teaching
- Proposing a new seminar focusing on Security and Hacking techniques.
- Holding an Entrepreneurship event PardisTak in cooperation with Pardis Technology Park.
- Proposing new courses such as:
  - Python
  - SQL
  - Java Script
- Establish a group of postgraduate students to research a special subject during the term

## *Teaching Courses*

### **MSc**

- Wireless Networks
- Broadband Networks
- Operation system
- professional data base

### **BSc**

- An Introduction to Formal Languages and Automata
- Data Structure
- Artificial intelligence
- Data Base

---

## *Teaching Appliances*

- Whiteboard
  - Manual text
  - PowerPoint presentation
- 

## *Supervisor of PhD Thesis*

[1] Hadis Hafizpour , **Encryption based on attribute properties for outsourced in fog computing systems**. 2024, Islamic Azad University, Broujerd Branch, Tehran, Iran.

## *Advisor of PhD Thesis*

[1] Tayebah Varmazyar, **Improving QoS in cloud resources scheduling using the Chameleon Clustering Algorithm**. 2023, Islamic Azad University, Broujerd Branch, Tehran, Iran.

[2] Abdolreza andalib, **Access Control Based on smart Contracts on the Internet of Things**. 2022, Islamic Azad University, Broujerd Branch, Tehran, Iran.

### *Supervisor of MSc Theses*

[1] Seyed Mohammad Saber Shoja, **Improving the accuracy of intrusion detection in Internet of Things networks with the hybrid model of neural network and intelligence collective**. 2024, Islamic Azad University, Electronic Branch, Tehran, Iran.

[2] Maryam Bagheri Gale, **smart transportation system using the combination of artificial intelligence and blockchain**, 2024, Islamic Azad University, Electronic Branch, Tehran, Iran.

[3] Mohadeseh Alinejad, **Recommendation Systems Based on Multi-Objective Optimization for Cognitive Internet of Things**, 2024, Islamic Azad University, Electronic Branch, Tehran, Iran

[4] AliReza Nateghi, **The impact of e-government information quality (EGIQ) dimensions on the adoption of electronic government services**, 2024, Islamic Azad University, Electronic Branch, Tehran, Iran

[5]Faranak Neiazpour, **A reliable data dissemination scheme via dominant set-based routing in mobile ad hoc networks**, 2024, Islamic Azad University, **Science and Research** Branch, Tehran, Iran

[6]Meysam Lashini, **Energy Aware Clustering Based on Fuzzy-Learning Automata Algorithms for Wireless Sensor Networks in IoT**, 2023, Islamic Azad University, Pardis Branch, Tehran, Iran

[7] Vahid hasani, **Load balance optimization in cloud computing using game theory method**, 2022, Islamic Azad University, **Science and Research** Branch, Tehran, Iran

[8] Masoud Ozkaee, **provides a routings porotocol in IOT networks based on multi-objective optimization to improve network performance**, 2024, Islamic Azad University, Tehran north Branch, Tehran, Iran

[9] Mohammad Arefi, **RMLAB: Energy-Efficient Resource Management for Cognitive Internet of Things Based on Learning Automata**, 2022, Islamic Azad University, Electronic Branch, Tehran, Iran

[10] Seyed Shaghayegh shojaee, **Investigating a resource protection method based on dynamic routing in wireless sensor networks based on the Internet of Things**, 2022, Islamic Azad University, Tehran north Branch, Tehran, Iran

[11] Sajad Ebrahimi, **Using time series method with Dynamic Forecasting Approach for streets Traffic Control in Smart Cities**, 2021, Islamic Azad University, Tehran north Branch, Tehran, Iran

[12] Sajad Ebrahimi, **Using time series method with Dynamic Forecasting Approach for streets Traffic Control in Smart Cities**, 2021, Islamic Azad University, Tehran north Branch, Tehran, Iran

[13] Arezou Kahnamouie, **Detection of Primary User Imitation Attacks in Radiological Networks Using Markov Model**, 2018, Islamic Azad University, Pardis Branch, Tehran, Iran

- [14] Mostafa Badiolzamni, **Proposed a new security architecture in the payment of IOT technology using ISO 8583 protocol**, 2021, Islamic Azad University, Pardis Branch, Tehran, Iran
- [15] Niloufar khani Ogaghkandi, **Providing an hybrid improved method for reducing energy consumption in wireless sensor network through clustering and cluster self-organizing of cluster heads**, 2018, Islamic Azad University, Tehran north Branch, Tehran, Iran
- [16] Mona Fallah vahdatijoo, **Improving BNPL recommendations to users in recommender systems using deep learning algorithm**, 2024, Islamic Azad University, Electronic Branch, Tehran, Iran
- [17] Erfan Nemati, **Providing a blockchain-based recommender system to improve security and privacy for data-driven organizations**, 2024, Islamic Azad University, Electronic Branch, Tehran, Iran
- [18] Roshanak Fazli, **Providing a security risk assessment model in the field of information technology**, 2024, Islamic Azad University, Electronic Branch, Tehran, Iran
- [19] Roshanak Fazli, **Providing a security risk assessment model in the field of information technology**, 2024, Islamic Azad University, Electronic Branch, Tehran, Iran

---

## Publications

---

### Books:

- Rahmani, P and Dadbakhsh, M, *Numerical Computation*, Arshad Publisher, (2012)
- Rahmani, P and Dadbakhsh, M, *Advanced algorithms*, Simiya Publisher (2011)
- Rahmani, P and Dadbakhsh, M, *An Introduction to Formal Languages and Automata*, Simiya Publisher (2010),
- Rahmani, P and Dadbakhsh, M, *Algorithm Design*, Simiya Publisher (2010) ,
- Rahmani, P and Dadbakhsh, M, *Operating System*, Simiya Publisher (2009) ,

---

### Journal papers (ISI: International)

- [1]. **Rahmani, P.** and H.H.S. Javadi, *Topology control in MANETs using the Bayesian pursuit algorithm*. Wireless Personal Communications, 2019. **106**(3): p. 1089-1116.
- [2]. **Rahmani, P.**, et al., *Cog-MAC Protocol: Channel Allocation in Cognitive Ad Hoc Networks Based on the Game of Learning Automata*. Wireless Personal Communications, 2018. **103**(3): p. 2285-2316.
- [3]. **Rahmani, P.**, et al., *TCLAB: a new topology control protocol in cognitive MANETs based on learning automata*. Journal of Network and Systems Management, 2018. **26**(2): p. 426-462.

- [4]. Ahrari, I. and **Rahmani, P.**, *Providing an Effective Method for Maximizing the Load Balancing in Cloud Computing using the Memetic Algorithm*. International Journal of Advanced Computer Science and Information Technology 2018.p. 29-37.
- [5]. Ghorbani, H.P. and **Rahmani, P.**, *Channel allocation using Learning Automata in Cognitive Radio Networks*. The CSI Journal on Computer Science and Engineering 2018. P. 45-59
- [6] Naderi, M., K. Mahdaee, and **P. Rahmani**, Hierarchical traffic light-aware routing via fuzzy reinforcement learning in software-defined vehicular networks. Peer-to-Peer Networking and Applications, 2023. 16(2): p. 1174-1198.
- [7] Haj Seyed Javadi, M., H. Haj Seyyed Javadi, and **P. Rahmani**, Localization of sensor nodes in the Internet of Things using fuzzy logic and learning automata. Journal of Intelligent & Fuzzy Systems, 2023. 45(1): p. 619-635.
- [8] **Rahmani, P.** and M. Arefi, Improvement of energy-efficient resources for cognitive internet of things using learning automata. Peer-to-Peer Networking and Applications, 2024. 17(1): p. 297-320.
- [9]. Rezakhani, A., A. Morshed Aski, and **P. Rahmani**, Access control in smart contracts using machine learning for IoT. C4I Journal, 2022. 5(3): p. 50-64.

---

### ***Journal papers (ISC: International)***

- [1]. عارفی، محمد و رحمانی، پریسا، ۱۴۰۱، مدیریت منابع انرژی کارآمد برای اینترنت اشیا شناختی بر اساس اتوماتای یادگیر، فصلنامه فناوری اطلاعات و ارتباطات انتظامی، دوره: ۲، شماره ۱۱، <https://civilica.com/doc/1709124>
- [2]. ورمزیار، طیبه و شیر، محمدابراهیم و رحمانی، پریسا، ۱۴۰۱، بهبود کیفیت سرویس در زمان بندی منابع ابری با استفاده از الگوریتم خوشه بندی پویای کملتون، فصلنامه فناوری اطلاعات و ارتباطات انتظامی، دوره: ۳، شماره ۱۰، <https://civilica.com/doc/1537656>.
- [3]. عندلیب، عبدالرضا و رضاخانی، افشین و مرشد اسکی، اکبر و رحمانی، پریسا، ۱۴۰۰، کنترل دسترسی در قراردادهای هوشمند با استفاده از یادگیری ماشین برای اینترنت اشیا، فصلنامه قرماندهی و کنترل، دوره: ۵، شماره: ۳، <https://civilica.com/doc/1480487>.

### ***International conference***

- 
- [1]. **Rahmani, P.**, Dadbakhsh, M. and Gheisari, S., "Improved MACO approach for grid scheduling," in *Proceedings of ICIII 2012: The international conference on industrial and intelligent information*, 2012, vol. 31, pp. 135-142.
  - [2]. Gheisari, S., Haghighat, A., **Rahmani, P.** and Osmani, A., "NRP: Neighbour-based mobicast protocol and SNRP: Spatial neighbour-based mobicast protocol for wireless sensor

- 
- networks," in *2008 3rd International Conference on Sensing Technology*, 2008, pp. 119-124: IEEE.
- [3]. **Rahmani, P.** , Dadbakhsh, M. and Targhi Haghighat, A., 2007, *Traffic Load Balancing and Routing Based on Traffic Engineering Using Ant Colony*, First Joint Congress of Fuzzy Systems and Intelligent Systems, Mashhad ,,, <https://civilica.com/doc/52676>
- [4]. **Rahmani, P.**, Dadbakhsh, M. and Qeisari, S., 2009, *A Distributed Protocol for Mobile Multicast in Sensor Wireless Networks*, National Conference on Software Engineering, Roodehen, <https://civilica.com/doc/61466>
- [5]. Kazemi,M. and **Rahmani, P.**, 2019, *Presenting a new method based on the firefly algorithm to more efficiently solve the problem of locating wireless sensor network nodes*, National Congress of Basic Research in Computer Engineering and Information Technology, Tehran.
- [6]. Mostafavi, S. A. and **Rahmani, P.**, 2020, *Presentation of a combined Leach-based clustering algorithm to reduce energy consumption in wireless sensor networks*, National Conference on Recent Advances in Engineering and Modern Science, Qarchak
- [7].Kazemi, S.A.and **Rahmani, P.**, 2016, *Efficient bandwidth based on data collection clusters for wireless sensor networks*, Third National Conference on Recent Innovations in Electrical and Computer Engineering, Tehran ,,, <https://civilica.com/doc/576453>
- [8]. Mostafavi, S.A. and **Rahmani, P.**, 2017, *Presenting a hybrid Leach-based clustering algorithm to reduce energy consumption in wireless sensor networks*, 3rd International Conference on Computer and Software Engineering, Tehran ,,, <https://civilica.com/doc/899923>
- [9]. Sajjadi, S. and **Rahmani, P.**, 2016, *Study and comparison of broadband access technology and wireless networks*, the second national conference on computer, information technology and Islamic communication in Iran, Qom ,,, <https://civilica.com/doc/680834>
- [10]. Karimzadeh, E. and **Rahmani, P.**, 2016, *A Review of MAC Protocols in CR Networks*, The First International Conference on New Research Achievements in Electrical and Computer Engineering, Tehran ,,, <https://civilica.com/doc/496461>

- 
- [11] . Abdoli, A., M. Majma, and P. Rahmani. Can Time Series Data Mining Facilitate Wider Adoption of Mobile Health? in 2021 IEEE International Conference on Big Data (Big Data). 2021. IEEE.
- [12]. 1.Jahangiri, M.M. and P. Rahmani. Balancing Game Satisfaction and Resource Efficiency: LLM and Pursuit Learning Automata for NPC Dialogues. in 2024 International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA). 2024. IEEE.

### ***Referees:***

M. R. Meybodi

Professor of Computer Engineering Department, Amirkabir University of Technology, Tehran, Iran

Email: mmeybodi@aut.ac.ir

Google Scholar profile: <https://scholar.google.com/citations?user=n2OALakAAAAJ&hl=en>

A. M. Rahmani

Professor of Computer Engineering Department, Science and Research University, Tehran, Iran

Email: rahmani@srbiau.ac.ir

Google Scholar profile: [https://scholar.google.com/citations?hl=en&user=MI\\_ZxPwAAAAJ](https://scholar.google.com/citations?hl=en&user=MI_ZxPwAAAAJ)

Hamid Haj Seyyed javad

Professor of Computer Engineering, Shahed University, Tehran, Iran

Email: H.s.javadi@shahed.ac.ir

Google Scholar profile: <https://scholar.google.com/citations?user=E0pspwIAAAAJ&hl=en>