

## Ramin Safa

Health Informatics Researcher

### CONTACT INFORMATION

Address: Department of Computer Engineering, Ayandegan Institute of Higher Education (AIHE), Tonekabon, Iran  
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### RESEARCH INTERESTS

- Healthcare
- Mental Health Informatics
- Text Mining
- Personalization
- Recommender Systems

### EDUCATION

Rasht Branch, Islamic Azad University (IAU), Rasht, Iran  
**Ph.D.** in Computer Engineering (Sept. 2015–Jul. 2022)  
Major in Software Systems  
Under the Supervision of Dr. Peyman Bayat  
GPA: 19.13/20

- Defended by “Excellent” Rank

University of Guilan, Rasht, Iran  
**M.Sc.** in Information Technology (Sept. 2012–Sept. 2014)  
Major in Electronic Commerce  
Under the Supervision of Dr. Seyed Abolghasem Mirroshandel  
GPA: 17.80/20

- Ranked in the top 5% among the entire university information technology students

*Relevant Coursework (all with grades A+ or A): Business Intelligence, Electronic Commerce, Pervasive Computing, E-Commerce Security, Distributed Systems, Multimedia Systems, M.Sc. Thesis.*

Lahijan Branch, Islamic Azad University (IAU), Lahijan, Iran  
**B.Sc.** in Computer Engineering (Sept. 2009–Jul. 2012)  
Major in Software Engineering  
GPA: 17.32/20

- Ranked in the top 10% among the entire university computer engineering students.

*Relevant Coursework (all with grades A+ or A): Data Structure, Database Design, Artificial Intelligence, Data Mining, Web Programming, Advanced Programming, Internet Engineering, and Software Engineering.*

### PUBLICATIONS

#### Book Chapter

**Safa, R.**, Edalatpanah, S. A., & Sorourkhah, A., “Predicting mental health using social media: A roadmap for future development”. *Deep Learning in Personalized Healthcare and Decision Support*. (Under Review)

#### Journal Papers

5. **Safa, R.**, Bayat, P., & Moghtader, L., “Automatic detection of depression symptoms in Twitter using multimodal analysis”. *The Journal of Supercomputing*, 78(4), 4709–4744, 2022. <https://doi.org/10.1007/s11227-021-04040-8>

4. **Safa, R.**, Bayat, P., & Moghtader, L., “Developing clinical decision support systems in psychiatry using microblogging data”. *Journal of Decisions and Operations Research*, 7(2), 259-276, 2022. (In Persian)  
<https://dorl.net/dor/20.1001.1.25385097.1401.7.2.4.1>
3. Taghvaei, F., & **Safa, R.**, “Efficient energy consumption in smart buildings using personalized NILM-based recommender system”. *Big Data and Computing Visions*, 1(3), 161-169, 2021.
2. Javadi, S., **Safa, R.**, Azizi, M., & Mirroshandel, S. A., “A recommendation system for finding experts in online scientific communities”. *Journal of AI and Data Mining*, 8(4), 573-584, 2020. <https://doi.org/10.22044/jadm.2020.9087.2045>
1. **Safa, R.**, Mirroshandel, S., Javadi, S., & Azizi, M., “Venue recommendation based on paper’s title and co-authors network”. *Journal of Information Systems and Telecommunication*, 6(1), 33-40, 2018. <https://doi.org/10.7508/jist.2018.21.005>

### Conference Papers

15. Harati, N. and **Safa, R.**, “An Overview of Information Technology and Artificial Intelligence Applications in Management of COVID-19 Pandemic”. *Proceedings of the 1<sup>st</sup> Digital Transformation and Intelligent Systems Conference*, Larestan, Fars, December 2021. (In Persian)
14. Abdari, S. and **Safa, R.**, “Personalization and Behavioral Marketing in E-Commerce Websites”. *Proceedings of the 6<sup>th</sup> National Conference on Distributed Computing and Big Data Processing*, Tabriz, Iran, March 2021. (In Persian)
13. Taghvaei, F., **Safa, R.**, and Beheshti, H., “Personalization of Energy Consumption in Smart Homes using Machine Learning Technique”. *Proceedings of the 6<sup>th</sup> International Conference on Web Research*, Tehran, Iran, April 2020. (In Persian)
12. Taghvaei, F., Rajabi, S., and **Safa, R.**, “Applications of Blockchain in IoT and Healthcare”. *Proceedings of the 2<sup>nd</sup> National Congress of Medical Informatics and the 7<sup>th</sup> Electronic Health Conference*, Tehran, Iran, July 2018. (In Persian)
11. Hasanizadeh, P., Yahyapour, S., and **Safa, R.**, “Big Data Analytics in E-Health”. *Proceedings of the 4<sup>th</sup> National Conference on Distributed Computing and Big Data Processing*, Tabriz, Iran, May 2018. (In Persian)
10. Meskini, F., Soleymanpour, Sh., and **Safa, R.**, “Utilizing Data Mining Techniques in Social Network Analysis”. *Proceedings of the 4<sup>th</sup> National Conference on Distributed Computing and Big Data Processing*, Tabriz, Iran, May 2018. (In Persian)
9. Alavi, S. N., **Safa, R.**, and Beheshti, H., “Analysis of Security Issues in Mobile Payment Protocols”. *Proceedings of the International Scientific Conference on Challenges in Engineering, Technology and Applied Sciences*, Dubai, UAE, March 2018. (In Persian)
8. Alavi, S. N. and **Safa, R.**, “A Review of Technologies, Protocols, and Challenges of Mobile Payment Security”. *Proceedings of the 2<sup>nd</sup> International Conference on Knowledge-based Research in Computer Engineering & Information Technology*, Tehran, Iran, September 2017.
7. **Safa, R.** and Bayat, P., “Investigate the Starvation Problem in Mutual Exclusion Algorithms From a Game Theory Perspective”. *Proceedings of the 3<sup>rd</sup> National Conference on Distributed Computing and Big Data Processing*, Tabriz, Iran, May 2017. (In Persian)

6. Moshirian, M. S., **Safa, R.**, and Beheshti Foroutani, H., "Using Data Mining Techniques in Medicine with a Focus on Heart Disease". *Proceedings of the 3<sup>rd</sup> National Conference on Engineering Science*, Tonekabon, Iran, May 2016. (In Persian)
5. Ekragholipour, M., Khodaverdi, F., and **Safa, R.**, "Investigate the relationship between Cloud Computing, Big Data, and IoT". *Proceedings of the 3<sup>rd</sup> National Conference on Engineering Science*, Tonekabon, Iran, May 2016. (in Persian)
4. **Safa, R.** and Azizi, M., "Information Customization using Publications' Metadata". *Proceedings of the 2<sup>nd</sup> National Conference on Engineering Science*, Tonekabon, Iran, May 2015. (in Persian)
3. **Safa, R.** and Sedaghat, N., "The Risks of E-Banking and Security Issues". *Proceedings of the 2<sup>nd</sup> National Conference on Engineering Science*, Tonekabon, Iran, May 2015. (in Persian)
2. Azizi, M., Mirroshandel, S. A., **Safa, R.**, and Javadi, S., "The Role of Customized Search on Online Scientific Communities and an Approach for Finding Experts". *Proceedings of the 2<sup>nd</sup> National Conference on Applied Researches in Computer Science and Information Technology*, Tehran, Iran, February 2015. (in Persian)
1. **Safa, R.** and Mirroshandel, S. A., "A Model to Determine the Appropriate Publishing Venue". *Proceedings of the 2<sup>nd</sup> National Conference on Meta-Heuristic Algorithm and its Application in Engineering and Science*, Fereydounkenar, Iran, August 2014. (in Persian)

## ADMINISTRATIVE TASKS

### IEEE Access

Scientific Committee Member

### The Journal of Supercomputing

Scientific Committee Member

### PeerJ Computer Science

Scientific Committee Member

### Bulletin of Electrical Engineering and Informatics

Scientific Committee Member

### Innovation Management and Operational Strategies

Scientific Committee Member

### Advances in Mathematical Physics

Scientific Committee Member

### The 4<sup>th</sup> International Symposium on Computer Science and Intelligent Control (ISCSIC 2020) - Newcastle, UK, August 2020.

Scientific Committee Member

### The 12<sup>th</sup> International Conference on Data Envelopment Analysis (DEA 12) - Tonekabon, Iran, October 2020.

Program Committee Member

### The International Joint Conference on Automation Science and Engineering (JCASE 2020) - Athens, Greece, January 2020.

Scientific Committee Member

### Journal of Mathematical Problems in Engineering

Scientific Committee Member

### 3<sup>rd</sup> International Conference on Artificial Intelligence in Renewable Energetic Systems (IC-AIRES2019) - Bechar, Algeria, November 2019.

Scientific Committee Member

**The 3<sup>rd</sup> International Symposium on Computer Science and Intelligent Control (ISCSIC 2019)** - Amsterdam, Netherlands, October 2019.  
Scientific Committee Member

**2nd International Conference on Bioinformatics and Neurosciences (ICoBN 2019)** -Vancouver, Canada, August 2019.  
Scientific Committee Member

**Big Data and Computing Visions (BDCV)**  
Editorial Board Member

**Journal of Applied Research on Industrial Engineering (JARIE)**  
Scientific Committee Member

**Journal of Decisions and Operations Research (DMOR)**  
Scientific Committee Member

**Futurology and the Cognitive Science Workshop** - Tonekabon, Iran, October 2018.  
Event Coordinator

**International Conference on Bioinformatics and Neurosciences, Nevada (ICoBN 2018)** - Las Vegas, USA. August 2018.  
Scientific Committee Member

**The International Conference on Innovation and Research in Engineering Sciences (ICIRES 2018)** - Tbilisi, Georgia, July 2018.  
Scientific Committee Member

**The 2<sup>nd</sup> International Symposium on Computer Science and Intelligent Control (ISCSIC 2018)** - Stockholm, Sweden, September 2018.  
Scientific Committee Member

**The 2<sup>nd</sup> National Conference on Knowledge and Technology of Electrical, Computer and Mechanical Engineering of Iran** - Tehran, Iran, May 2018.  
Program Committee Member

**The International Scientific Conference on Challenges in Engineering, Technology and Applied Sciences** - Dubai, UAE, March 2018.  
Scientific Committee Member

**The First Seminar on Applied Research in Computer, Information Technology and Electrical Engineering** - Tonekabon, Iran, December 2017.  
Scientific Secretary

**The 3<sup>rd</sup> National Conference on Engineering Science** - Tonekabon, Iran, May 2016.  
Scientific Secretary

## **PRESENTATIONS AND WORKSHOPS**

**Extracting User's Psychological Profile From Social Data**  
Research Week Conference, Ayandegan Institute of Higher Education (AIHE),  
Tonekabon, Iran, December 2022.

**Personalization and Recommender Systems**  
The First Seminar on Applied Research in Computer, Information Technology and  
Electrical Engineering, Tonekabon, Iran, December 2017.

**Reference Management Software and Tools**  
Ayandegan Institute of Higher Education (AIHE), Tonekabon, Iran, November  
2016.

**Application of Recommender Systems in Online Scientific Communities**  
Research Week Conference, University of Guilan, Rasht, Iran, December 2013.

**TEACHING  
EXPERIENCES**

**Lecturer** (2013-Present)  
Ayandegan Institute of Higher Education (AIHE), Tonekabon, Iran

**Lecturer** (2013-2022)  
Tonekabon Branch, Islamic Azad University (IAU), Tonekabon, Iran

**Lecturer** (2016-2017)  
Ramsar Branch, Islamic Azad University (IAU), Ramsar, Iran

**Lecturer** (Spring 2017)  
Kasra Institute of Higher Education, Ramsar, Iran

**Lecturer** (2013-2016)  
Sama Technical and Vocational Training College, Tonekabon Branch, IAU,  
Tonekabon, Iran

**Lecturer** (2015-2016)  
Roudaki Institute of Higher Education, Tonekabon, Iran

**Teaching Assistant** (Fall 2014 & Spring 2015)  
University of Guilan, Rasht, Iran

**STUDENT  
SUPERVISION**

Supervisor and examiner of more than 20 M.Sc. theses

**WORKING  
EXPERIENCES**

**Technical Manager** (2021-Present)  
Ayandegan Innovation Hub

**IT Consultant** (2017-2022)  
Tarannom Company

**IT Consultant and Webmaster** (2017-2021)  
TJ Software Solutions

**REFERENCES**

Available on Request