

Ramin Safa

Health Informatics Researcher

CONTACT INFORMATION

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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*. Elsevier, in press. <https://elsevier.com/books/deep-learning-in-personalized-healthcare-and-decision-support/garg/978-0-443-19413-9>

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. Taghvai, 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. <https://dx.doi.org/10.22105/bdcv.2022.325031.1039>
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 1st 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 6th National Conference on Distributed Computing and Big Data Processing*, Tabriz, Iran, March 2021. (In Persian)
13. Taghvai, F., **Safa, R.**, and Beheshti, H., “Personalization of Energy Consumption in Smart Homes using Machine Learning Technique”. *Proceedings of the 6th International Conference on Web Research*, Tehran, Iran, April 2020. (In Persian)
12. Taghvai, F., Rajabi, S., and **Safa, R.**, “Applications of Blockchain in IoT and Healthcare”. *Proceedings of the 2nd National Congress of Medical Informatics and the 7th 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 4th National Conference on Distributed Computing and Big Data Processing*, Tabriz, Iran, May 2018. (In Persian)
10. Meskini, F., Soleymannpour, Sh., and **Safa, R.**, “Utilizing Data Mining Techniques in Social Network Analysis”. *Proceedings of the 4th 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 2nd 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 3rd 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 3rd 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 3rd 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 2nd 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 2nd 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 2nd 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 2nd National Conference on Meta-Heuristic Algorithm and its Application in Engineering and Science*, Fereydunkenar, Iran, August 2014. (in Persian)

ADMINISTRATIVE TASKS

IEEE Access

Scientific Committee Member

The Journal of Supercomputing

Scientific Committee Member

IEEE Access

Scientific Committee Member

PeerJ Computer Science

Scientific Committee Member

Intelligent Automation & Soft Computing

Scientific Committee Member

Computer Systems Science and Engineering

Scientific Committee Member

Bulletin of Electrical Engineering and Informatics (BEEI)

Scientific Committee Member

Innovation Management and Operational Strategies

Scientific Committee Member

Advances in Mathematical Physics

Scientific Committee Member

Journal of Artificial Intelligence and Big Data

Editorial Board Member

The 4th International Symposium on Computer Science and Intelligent Control (ISoCC 2020) - Newcastle, UK, August 2020.

Scientific Committee Member

The 12th 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

The 3rd International Conference on Artificial Intelligence in Renewable Energetic Systems (IC-AIRES2019) - Bechar, Algeria, November 2019.
Scientific Committee Member

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

The 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

International Journal of Research in Industrial Engineering
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 2nd International Symposium on Computer Science and Intelligent Control (ISCSIC 2018) - Stockholm, Sweden, September 2018.
Scientific Committee Member

The 2nd 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 3rd 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 Director of the Innovation Hub (2021-Present)

Ayandegan Innovation Hub

IT Consultant (2017-2022)

Tarannom Company

IT Consultant and Webmaster (2017-2021)

TJ Software Solutions

REFERENCES

Available on Request