Hadi Safari

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Faculty of Management and Economics, Tarbiat Modares University, Tehran, Iran

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EDUCATION

◇ **Ph.D., Science and Technology Policy**   *2022 – Present*
Tarbiat Modares University, Tehran, Iran
     Supervisor: Prof. Sepehr Ghazinoory
GPA: 19.22 / 20
Selected Courses: *Public Policy (20), Science, Technology, and Society (19), Philosophy of Science and Technology (18), Legal Bases of Science and Technology (20), Economics of Innovation and Technological Changes (19), and Innovation System and Technology Development (19)*

◇ **Teaching Skills**   *2023 – Present*
Tarbiat Modares University, Tehran, Iran

◇ **M.Sc., Computer Engineering: Software Engineering**   *2019 – 2022*
University of Tehran, Tehran, Iran
Thesis: *Modelling Transaction Processing Logic with Functional Languages for the Purpose of Model-based Testing*
     Supervisor: Dr. Ramtin Khosravi
     Degree: Excellent
GPA: 19.52 / 20
Selected Courses: *Modelling and Formal Verification of Reactive and Concurrent Systems (20), Data Analysis (20), Advanced Computer Networking (20), Distributed Systems (20), Advanced Software Testing (20), Software Synthesis (19.1), and Advanced Computer Mathematics (18.5)*

◇ **Summer School, Behavioural Digital Trace Data in Response to the COVID-19 Pandemic**   *Summer 2021*
Social ComQuant Project, Koç University, Istanbul, Turkey
with partnership of ISI Foundation (Institute for Scientific Interchange), Turin, Italy

◇ **B.Sc., Computer Engineering: Software Engineering**   *2015 – 2019*
University of Tehran, Tehran, Iran
Final Project: *Analysing Network of Projects and Users of GitLab*
     Supervisor: Dr. Behnam Bahrak
     Grade: 20 / 20
GPA: 18.11 / 20   Ranked 2nd among 52
Selected Courses: *Object-oriented Design (19.7), Process Algebra & Automata Theory – Graduate Course (19), Formal Methods (20), Software Testing (19.7), Software Engineering (18.3), Computer Networks (20), Internet Engineering (19.6), Algorithmic Graph Theory (17.5), and Theory of Formal Languages & Automata (20)*

◇ **Pre-University, Mathematical & Technical Science**   *2014 – 2015*
NODET (SAMPAD) Beheshti High school, Shahr-e Kord, Iran

◇ **Summer Course, Iranian National Olympiad in Literature**   *Summer 2014*
Young Scholars' Club, Tehran, Iran

◇ **Diploma, Mathematics & Physics**   *2011 – 2014*
NODET (SAMPAD) Beheshti High school, Shahr-e Kord, Iran

RESEARCH
INTERESTS
Science Policy, Cyberspace Policy, Network Science, Social Network Analysis, Scientometrics, and Software Testing

SELECTED
PUBLICATIONS

Journal Articles

◇ Ghazinoory, Sepehr and **Safari, Hadi**, "Two competing views on the concept of scientific authority: explanation and evaluation," *Rahyaft*, vol. 32, no. 3, pp. 21–32, 2022. [in Persian]. URL: `https://rahyaft.nrisp.ac.ir/article_14002.html`, doi:10.22034/rahyaft.2023.11424.1432.

◇ Ghazinoory, Sepehr and **Safari, Hadi**, "The role and importance of soft technologies in the geometry of the new world order," *Military Logistics & Defense Technology*, vol. 6, no. 2, pp. 77–104, 2023. [in Persian]. URL: `https://amfad.sndu.ac.ir/article_2588.html`.

◇ **Safari, Hadi** and Karimi, Faisal, "A study of the scientific publications by Afghan researchers indexed in the Scopus database before the Taliban resurgence with an emphasis on co-authorship relations," *Caspian Journal of Scientometrics*, vol. 10, no. 1, 2023. [in Persian]. URL: `http://cjs.mubabol.ac.ir/article-1-289-fa.html`.

◇ Rahbari, Mohammad, Delavari, Abolfazl, and **Safari, Hadi**, "Cyberspace and political polarization in Iran: Case study of reactions of Persian Twitter users to events in Iran (years 1400-1401)," *Cultural Studies & Communication*, vol. 19, no. 70, pp. 241–271, 2023. [in Persian]. URL: `https://www.jcsc.ir/article_702347.html`, doi:10.22034/jcsc.2023.1982672.2625.

◇ **Safari, Hadi** and Ghazinoory, Sepehr, "A review of Iranian studies on basic research policymaking in Iran," *Science Cultivation*, vol. 13, no. 1, pp. 8–18, 2022. [in Persian]. URL: `http://www.sciencecultivation.ir/article_703839.html`.

◇ Zakeriyan, Arvin, Khosravi, Ramtin, **Safari, Hadi**, Khamespanah, Ehsan, and Shamsabadi, Seyede Mehrnaz, "Automated testing of an industrial stock market trading platform based on functional specification," *Science of Computer Programming*, vol. 225, p. 102908, 2023. URL: `https://www.sciencedirect.com/science/article/pii/S0167642322001411`, doi:10.1016/j.scico.2022.102908.

◇ **Safari, Hadi** and Safari, Jahangir, "Co-authorship network of authors of articles published in scientific journals of Persian literature," *Literary Research*, vol. 19, no. 78, pp. 131–150, 2022. [in Persian]. URL: `https://lire.modares.ac.ir/article-41-65719-en.html`, doi:2634.19.78.7.

◇ **Safari, Hadi**, "Network analysis of Afghanistan-related campaigns in Persian Twitter," *Computing Science Journal*, vol. 26, no. 3, pp. 69–81, 2022. [in Persian]. URL: `http://csj.isi.org.ir/uploadfiles/011612656.pdf`.

◇ **Safari, Hadi**, "Investigating the co-authorship network of Iranian mathematicians," *Iranian Mathematical Society Newsletter*, vol. 42, no. 1-2, pp. 14–22, 2022. [in Persian]. URL: `http://nims.ims.ir/article_145067.html`.

◇ **Safari, Hadi**, "COVID-19-related infodemics in Persian social media," *Applied Studies in Social Sciences and Sociology*, vol. 17, no. 4, pp. 63–76, 2021. [in Persian]. URL: `http://shij.ir/asscs/upload/asscs/Content/000921_13/06-ASSCS-No17-94449.pdf`.

◇ **Safari, Hadi**, "Detecting organized trends in Twitter: a mathematical approach," *Applied Studies in Social Sciences and Sociology*, vol. 15, no. 2, pp. 51–62, 2021. [in Persian]. URL: `http://shij.ir/asscs/upload/asscs/Content/000625_16/06-ASSCS-No15-59228.pdf`.

⋄ **Safari, Hadi**, Sabri, Nazanin, Shahsavan, Faraz, and Bahrak, Behnam, "Structural analysis of GitLab's users and projects networks," *International Journal of Information & Communication Technology Research*, vol. 12, no. 2, pp. 54–62, 2020. URL: `https://ijict.itrc.ac.ir/article-1-460-en.html`.

⋄ **Safari, Hadi**, "Erdős number and network of co-authors: A look at one of the applications of graph theory in scientometrics," *Math & Society*, vol. 5, no. 2, pp. 47–57, 2020. [in Persian]. URL: `https://math-sci.ui.ac.ir/article_25684.html`, doi:10.22108/msci.2021.128339.1427.

⋄ **Safari, Hadi**, "Statistical analyse of sources of semantic affinity questions in public university entrance exam," *Roshd-e Ma'arif-e Islami*, vol. 26, no. 4, pp. 33, 34, 2014. [in Persian]. URL: `https://www.roshdmag.ir/fa/article/10914`.

Books

⋄ **Safari, Hadi**, *Network Analysis of Source Code Hosting Websites: GitLab Case Study.* Miaad Andishe Publication, 2020. [in Persian].

Conference Articles

⋄ Ghazinoory, Sepehr and **Safari, Hadi**, "Security, resilience and restriction of cyber space," in *The 12th Conference for the Islamic-Iranian Model of Progress*, pp. 1–13, Center for the Islamic-Iranian Model of Progress, 2023. [in Persian]. URL: `https://12cp.olgou.ir/papers/1123.pdf`.

⋄ Ghazinoory, Sepehr and **Safari, Hadi**, "The role and importance of soft technologies in the geometry of the new world order," in *International Conference on New World Order Geometry*, Supreme National Defense University, 2023. [in Persian].

⋄ **Safari, Hadi**, "A look at participats in Afghanistan-related campaigns in Persian Twitter," in *3rd National Informatics Conference of Iran*, pp. 1–6, Institute for Research in Fundamental Sciences (IPM) & Informatics Society of Iran, 2022. [in Persian]. URL: `http://cs.ipm.ac.ir/nic/1400/files/NIC1400-Proceedings.pdf`.

⋄ Rahbari, Mohammad and **Safari, Hadi**, "Investigating the process of formation and intensification of political anomie in Iranian society in the 90s: A case study of Persian Twitter," in *The 5th Conference of Conceptual & Theoretical Reflections on Iranian Society*, p. 430, Iranian Sociological Association, 2022. abstract only. [in Persian].

⋄ Zakeriyan, Arvin, Khosravi, Ramtin, **Safari, Hadi**, and Khamespanah, Ehsan, "Towards automatic test case generation for industrial software systems based on functional specifications," in *Fundamentals of Software Engineering* (Hojjat, Hossein and Massink, Mieke, eds.), (Cham), pp. 199–214, Springer International Publishing, 2021. proceedings of FSEN 2021. URL: `https://link.springer.com/chapter/10.1007/978-3-030-89247-0_14`, doi:10.1007/978-3-030-89247-0_14.

⋄ **Safari, Hadi**, Sabri, Nazanin, Shahsavan, Faraz, and Bahrak, Behnam, "An analysis of GitLab's users and projects networks," in *2020 10th International Symposium on Telecommunications (IST)*, pp. 194–200, IEEE, 2020. URL: `https://ieeexplore.ieee.org/document/9345844`, doi:10.1109/IST50524.2020.9345844.

Newspaper Articles

⋄ Rahbari, Mohammad and **Safari, Hadi**, "What does the reaction of Twitter users to Mohammad Khatami's messages mean?," *Etemad Newspapaer*, no. 5429, p. 2, 2022. [in Persian]. URL: `https://www.etemadnewspaper.ir/fa/main/detail/197814`.

⋄ Rahbari, Mohammad and **Safari, Hadi**, "Is there any non-governmental figure willing to defend the "congress of influential women"?," *HamMihan Newspapaer*, no. 160,

p. 2, 2023. [in Persian]. URL: `https://hammihanonline.ir/news/title-one/bazkhwrdhay-mjazy-yk-nshst`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "Signs of polarization of iranian society: a reflection on the behavior of users of social networks in the case of hoda rostami," *Shargh Newspapaer*, no. 4304, p. 4, 2022. [in Persian]. URL: `https://static3.sharghdaily.com/servev2/igFPN98N8R2X/i1kub06DEUw,/04.pdf`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "Death, arrest or escape: What do social media users say about the fate of metropolitan owner, hussein abdul baqi?," *Shargh Newspapaer*, no. 4288, p. 1, 2022. [in Persian]. URL: `https://static2.sharghdaily.com/servev2/xeH6WyKYMt3H/i1kub06DEUw,/01.pdf`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "A data-driven look at the news media on Instagram: Which Instagram media has the highest penetration rate?," *Shargh Newspapaer*, no. 4263, p. 4, 2022. [in Persian]. URL: `https://static2.sharghdaily.com/servev2/OzH3zxtxzRHG/i1kub06DEUw,/04.pdf`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "Negative slope of popularity: What do the audience of Reisi's Instagram page think after 100 days from the beginning of the 13th government?," *Etemad Newspapaer*, no. 5073, p. 2, 2021. [in Persian]. URL: `https://www.etemadnewspaper.ir/fa/main/detail/176513`.

◇ ShoughoShoara, Yegane and **Safari, Hadi**, "1400 national university entrance exam: What is hidden behind the numbers," *Aftab-e Yazd Newspapaer*, no. 6128, p. 3, 2021. [in Persian]. URL: `http://aftabeyazd.ir/?newsid=197320`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "Suggestions about COVID-19: a data analysis of Persian tweets from the beginning of 5th wave of COVID-19 until now," *Etemad Newspapaer*, no. 5017, p. 2, 2021. [in Persian]. URL: `https://www.etemadnewspaper.ir/fa/main/detail/173156`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "Competiotion of election candidates of the two political factions in the Twitter timeline," *Etemad Newspapaer*, no. 4953, p. 3, 2021. [in Persian]. URL: `https://www.etemadnewspaper.ir/fa/main/detail/169483`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "Influential users and Twitter likes," *Etemad Newspapaer*, no. 4891, p. 3, 2021. [in Persian]. URL: `https://www.etemadnewspaper.ir/fa/main/detail/165624`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "Anti-corruption activites of Twitter users," *Etemad Newspapaer*, no. 4861, p. 4, 2021. [in Persian]. URL: `https://www.etemadnewspaper.ir/fa/main/detail/163505`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "What Twitter likes say about us?," *Etemad Newspapaer*, no. 4849, p. 3, 2021. [in Persian]. URL: `https://www.etemadnewspaper.ir/fa/main/detail/162620`.

Website Articles
◇ Rahbari, Mohammad and **Safari, Hadi**, "The opinion of Twitter users about the currency market; what is the Dollar price?," *EcoIran*, 2023. [in Persian]. URL: `https://www.ecoiran.com/fa/tiny/news-30254`.

◇ **Safari, Hadi** and Karimi, Faisal, "Taliban on twitter: A look at the #fadayan hashtag campaign," *Afghanistan Women News Agency*, 2022. [in Persian]. URL: `https://www.awna.af/?p=31885`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "Analytical research regarding the Twitter platform in Iraq: How did Twitter activists in Iraq react to the terrorist attack in Diyala?," *Al-Bayan Center for Planning and Studies*, 2022. [in Arabic]. URL: `https://www.bayancenter.org/en/2022/01/3072`.

◇ Rahbari, Mohammad and **Safari, Hadi**, "Analysis and employment of the tremendous data base in political sociology studies: Twitter," *Al-Bayan Center for Planning and Studies*, 2021. [in Arabic]. URL: `https://www.bayancenter.org/en/2021/10/2883`.

◇ **Safari, Hadi** and Rahbari, Mohammad, "Fear, anger and sympathy: an overview of Persian Twitter space on the eve of the Taliban's re-occupation of Afghanistan," *Masgh-e Now*, 2021. [in Persian]. URL: `https://mashghenow.com/?p=5045`.

◇ **Safari, Hadi**, "Eight months of #MeToo movement in Iran," *Bidarzani*, 2021. [in Persian]. URL: `https://bidarzani.com/36643`.

TEACHING EXPERIENCE

◇ **Teaching Assistant**   *2017-2020*
University of Tehran, Tehran, Iran

○ **Advanced Programming**

★ **Supervising TA** for *Dr. Ramtin Khosravi*   *Fall 2020*
★ **Supervising TA** for *Dr. Ramtin Khosravi*   *Spring 2020*
★ **Supervising TA** for *Dr. Ramtin Khosravi*   *Fall 2019*
★ **Chief TA** for *Dr. Ramtin Khosravi*   *Spring 2019*
★ **TA** for *Dr. Mohammad Amin Sadeghi*   *Fall 2018*
★ **TA** for *Dr. Ramtin Khosravi* & *Dr. Mohammad Amin Sadeghi*   *Spring 2018*
★ **TA** for *Dr. Ramtin Khosravi* & *Dr. Mohammad Amin Sadeghi*   *Fall 2017*
★ **TA** for *Dr. Ramtin Khosravi* & *Dr. Mohammad Amin Sadeghi*   *Spring 2017*

○ **Formal Methods**

★ **Chief Teaching Assistant** for *Dr. Fathiyeh Faghih*   *Fall 2019*

○ **Software Engineering**

★ **Teaching Assistant** for *Dr. Ramtin Khosravi*   *Fall 2019*

○ **Theory of Formal Languages & Automata**

★ **Teaching Assistant** for *Dr. Hakimeh Fadaei*   *Spring 2018*
★ **Teaching Assistant** for *Dr. Hakimeh Fadaei*   *Fall 2017*

○ **Writing & Presentation Skills**

★ **Teaching Assistant** for *Dr. Siamak Mohammadi*   *Fall 2019*

○ **Computer Networks Lab**

★ **Lab Description Editor** for *Dr. Ahmad Khonsari*   *Spring 2019*

○ **Digital Logic Design Lab**

★ **Lab Description Editor** for *Prof. Zainalabedin Navabi*   *Spring 2019*

◇ **Teacher, Literature for National Olympiad**   *2017*
NODET (SAMPAD) Ejei 2 High school, Isfahan, Iran

◇ **Teacher, Literature for National Olympiad**   *2016*
Adab High school, Tehran, Iran

◇ **Teacher, Literature for National Olympiad**   *2015*
NODET (SAMPAD) Beheshti High school, Shahr-e Kord, Iran

WORK EXPERIENCE	◇ **Software Engineer**	*2019 – Present*

◇ Software Engineer — *2019 – Present*
Radin Bourse, Tehran, Iran
Designing and developing a high-performance trading engine
I was a part of the team from nearly early days of development and was engaged on architectural design and development of the new trading engine with special performance requirements. I use many languages and tools such as Java, Spring, Python, Bash, Haskell, Ansible, Kafka, etc. for daily tasks in the project. Recently, I specially focus on automatic testing of system and conformance testing with legacy systems, implementing communication protocol with other subsystems, and also developing software documentation.

- ○ **Senior Software Engineer** — *2019 – Present*
- ○ **Software Developer** — *2019 – 2020*

◇ Social Network Analyst — *2020 – Present*
Freelance
Analysing online social networks, specially Twitter, Telegram, and Instagram, for multiple private firms, influencers, academic projects, news agencies, newspapers, etc.

◇ Research Assistant — *2023 – Present*
Tarbiat Modares University
I work as research assistant of Prof. Sepehr Ghazinoory in many research and policy projects related to science, technology, and innovation policy making for governmental and academic organizations

◇ Layout Designer — *2020 – Present*
Freelance
Designing page layout of books using LaTeX and Word

◇ Information Technology Summer Intern — *2018*
ITC Center, Shahr-e Kord University, Shahr-e Kord, Iran
Learning about network infrastructure, router configuration, datacenter maintenance, and also software infrastructure of university services

◇ UI Developer — *2016*
Zagros Communications Development Co., Shahr-e Kord, Iran
Developing Wordpress themes using jQuery, JS, CSS, etc.

◇ Editor — *2016*
KheiliSabz Publication, Tehran, Iran
Line editing literature books

HONOURS & AWARDS

◇ Ranked 5th in the National Ph.D. Entrance Exam — *2021*
(Entrepreneurship, Futures Studies, and Technology Management Package)
National Organization of Educational Testing, Tehran, Iran

◇ Ranked 2nd in B.Sc. — *2018*
among 52 Computer Engineering - Software Engineering B.Sc. Students
University of Tehran, Tehran, Iran

◇ M.Sc. Admission as Exceptionally Talented Student — *2018*
Admission without Entrance Exam
University of Tehran, Tehran, Iran

◇ Ranked among top 1% of Competitors in National Entrance Exam — *2015*
National Organization of Educational Testing, Tehran, Iran

◇ National Gold Medal in Literature Olympiad — *Summer 2014*
in the 27th Iranian National Olympiad in Literature
Young Scholars' Club, Tehran, Iran

◇ **Ranked 11th (Team) in Sharif 4th National Students' Competition**   *2014*
Sharif University of Technology, Tehran, Iran

SELECTED
PROJECTS

◇ **Social Media Word Cloud Generator** ~ Open-source Project (Python)   *2020*
a series of scripts to generate word cloud from social media posts

◇ **AP HTTP** ~ Advanced Programming (as TA) (C++)   *2018-2019*
a simple web framework

◇ **Khane-Be-Doosh** ~ Internet Engineering (Java, HTML5, CSS3, ReactJS, SQLite)   *2018*
a house rent & sell online platform

◇ **TCP over UDP** ~ Computer Networks (Java)   *2018*
an implementation of a TCP-like RDT protocol over UDP

◇ **Graph Colouring** ~ Algorithmic Graph Theory (R)   *2018*
greedy & ILP solution for graph colouring problem

◇ **Moodle Judge** ~ Advanced Programming (as TA) (Bash Script)   *2018*
judge script for Moodle-uploaded codes

◇ **Agnoster Bash Theme** ~ Open-source Project (Bash Script)   *2017*
a bash theme like Agnoster zsh theme

◇ **Twitter Followings Clustering** ~ Open-source Project (Python)   *2017*
a simple Twitter followings clustering script

◇ **DMContest** ~ (NodeJS, JQuery 3, HTML 5, CSS 3)   *2017*
a website for Discrete Mathematics contest of University of Tehran

VOLUNTEER
EXPERIENCE

◇ **Executive Committee Member, The 2nd CSI International Symposium on Real-Time and Embedded Systems and Technologies (RTEST)** *May 2018*
University of Tehran, Tehran, Iran   `http://2018.rtest-conf.org`

◇ **Editor, F1 Magazine**   *2017*
ACM Student Chapter, University of Tehran, Tehran, Iran

◇ **Editor, Derang Magazine**   *2017*
University of Tehran, Tehran, Iran

SKILLS

Programming Languages skilled in Python & Pandas, experienced in C & C++, Java, and familiar with Haskell, and traditional web technologies

Tools proficient in git, skilled in Unix terminal, LaTeX, Microsoft Word, Google Sheets, and familiar with Gephi, Docker, and Computer Graphics (GIMP, InkScape, and ffmpeg)

Soft Skills Documentation, Learning, and Teaching

CERTIFICATIONS

◇ **Research Ethics and Misconduct**   *2023*
School of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran

◇ **General Course on Intellectual Property**   *2022*
World Intellectual Property Organization (WIPO) Academy

◇ **Data Mining in Political Science: Analyzing Hashtag Activism**   *2020*
Iranian Political Science Association, Tehran, Iran

◇ **Git Workshop**   *2017*
ACM Student Chapter, University of Tehran, Tehran, Iran

◇ **Workshop on Teaching Assistant Training**   *2017*
UNESCO Chair on Engineering Education, University of Tehran, Tehran, Iran

LANGUAGES   Persian (native), English (TOEFL iBT 97), and Arabic (read, classic)

REFERENCES   Available upon request.