Taha Samad-Soltani

Assistant Professor of Medical Informatics

Department of Health Information Management, School of Management and Medical Informatics

Tabriz University of Medical Sciences

Date of Birth: September 21, 1985

Nationality: Iran

Education: PhD of Medical Informatics

Marital Status: Married

8
H-Index
Scopus

2002 — 2022

Publications Overview Scopus

44
Papers

2002 — 2022

246
Citations

2002 — 2022

13
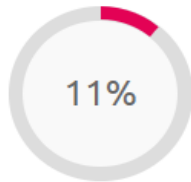G-Index

2002 — 2022

4
First-Author Papers

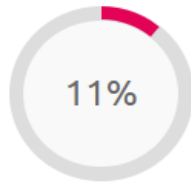**15**
Corresponding-Author Papers

5
International Papers

5.72
Citations per Papers for all Years

11%
International Papers

11%
Self-Citation
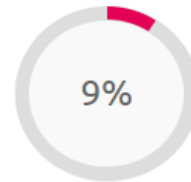
9%
Papers in Citescore Top 10% Journals

15%
i10 Papers
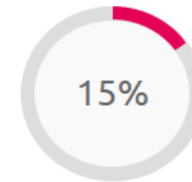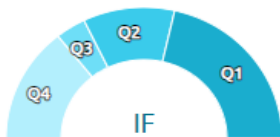
Q2 Q3 Q1 Q4
IF
Paper Quartiles based on IF

Q2 Q3 Q1 Q4
CiteScore
Paper Quartiles based on CiteScore
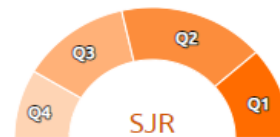
Q2 Q3 Q1 Q4
SJR
Paper Quartiles based on SJR

Q2 Q3 Q1 Q4
SNIP
Paper Quartiles based on SNIP

Educational Background

2012–2017	**PhD in Medical Informatics**	School of Allied Medical Sciences, Tehran University of Medical Sciences, Tehran, Iran

Thesis Title: Designing of Antimicrobial resistance surveillance and decision support system to neonatal intensive care unit

2009–2012	**MSc in Medical Informatics**	School of Allied Medical Sciences, Tehran University of Medical Sciences, Tehran, Iran

Thesis Title: Designing a Decision Support System for Diagnosing Pulmonary Injuries in Chemical Victims

2004–2009	**BSc in Software Engineering**	Faculty of Computer & Electronics, University of Tabriz, Tabriz, Iran

Contact Info

Address: Department of Health Information Technology, School of Management & Medical Informatics, Tabriz University of Medical Sciences, Tabriz, Iran

Phone: +989129321567 (Also Available on WhatsApp & Telegram)

Email : samadsoltani@tbzmed.ac.ir,   taha.soltany@gmail.com

Social Profiles

https://www.scopus.com/authid/detail.uri?authorId=57195059375

https://www.researchgate.net/profile/Taha-Samad-Soltani

https://instagram.com/drtahasoltani

https://scholar.google.com/citations?user=jcTnHoQAAAAJ&hl=en

https://www.sanamsahand.com

https://isid.research.ac.ir/Taha_Samadsoltani

🧪 Research Proposals Overview Approved

3	**8**	**27**	**2**
PI	Co-PI	Referee	Observer

2003 — 2023   2003 — 2023   2003 — 2023   2003 — 2023

🎓 Theses Overview Approved

28	**17**	**11**	**2**
All Theses	Supervisor	Consultant	Author

2003 — 2023   2003 — 2023   2003 — 2023   2003 — 2023

🧪 Research Area ⊚

Based on Papers

intelligent algorithms · inertial measurement unit · checklist · decision-support · neonatal · business intelligence · decision support systems, clinical · documentation · framework · microbial · virtual reality · software · acute stroke · clinical decision making · complementary filters · design · triage · informatics · biosurveillance · augmented reality · specimen handling · expert systems · posture · scoliosis · spiral model · central libraries · rehabilitation · medical errors · telerehabilitation · decision support system · drug resistance · fuzzy logic · surveillance · ueq · knowledge · paranoia · dataset · image processing · usability · algorithm · high costs · epidemiological monitoring · dashboard · clinical decision support systems · fuzzy system · data mining · electronic health records · automation · spatial database · hill climbing · knowledge exchange · guideline adherence

Publications Trend Scopus

Papers

Citations (Citation Year)

Papers (Published in a Year)
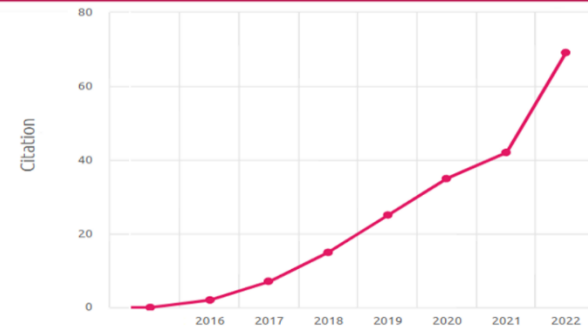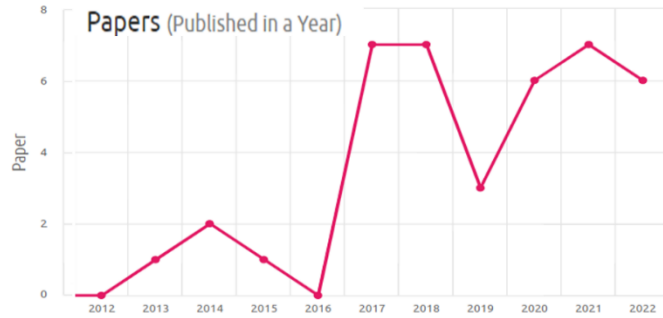
Paper International Collaborations Scopus

Geo-Distribution | Percentage of International Papers | International Papers

1   2   4

Publications

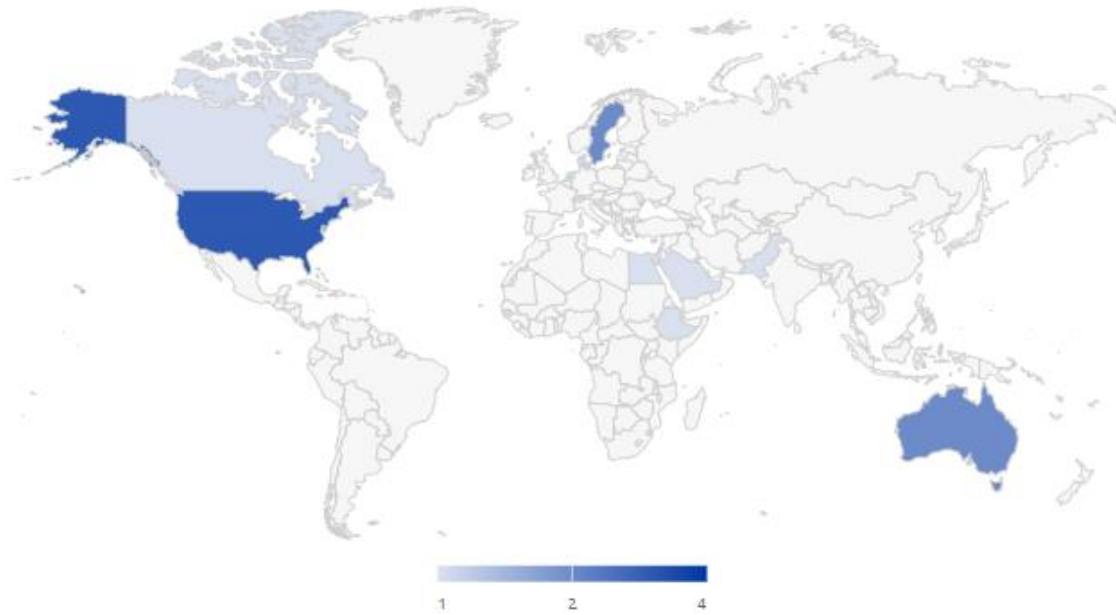| Title	Journal	Authors	
		Year	
Interoperability of heterogeneous health information systems: a systematic literature review	BMC Medical Informatics and Decision Making	2023	A Torab-Miandoab, T Samad-Soltani, A Jodati, P Rezaei-Hachesu
Patients' Medication Information: Current Situation, Challenges and Information Technology	Journal of Isfahan Medical School	2023	Tahereh Eteraf-Oskouei, Vahideh Zarea-Gavgani, Taha Samad-Soltani, Moslem Najafi, Mina Mahami-Oskouei
A scoping review of virtual care in the health system: infrastructures, barriers, and facilitators	Home Health Care Services Quarterly	2023	Nasib Babaei, Vahid Zamanzadeh, Leila Valizadeh, Mojgan Lotfi, Taha Samad-Soltani, Ahmad Kousha, Marziyeh Avazeh
The effects of virtual reality-based bronchoscopy simulator on learning outcomes of medical trainees: A systematic review	Health Science Reports	2023	Mahmud Bejani, Ali Taghizadieh, Taha Samad-Soltani, Afsoon Asadzadeh, Peyman Rezaei-Hachesu
The effect of virtual reality therapy and counseling on students' public speaking anxiety	Health Science Reports	2022	Fatemeh Sarpourian, Taha Samad-Soltani, Khadijeh Moulaei, Kambiz Bahaadinbeigy
Computer-aided Measurement System Using Image Processing for Measuring Cobb Angle in Scoliosis	Middle East Journal of Rehabilitation and Health Studies	2022	Nazila Moftian, Taha Samad Soltani, Zahra Salahzadeh, Hojjat Hossein Pourfeizi, Yousef Gheibi, Amir Fazlollahi, Peyman Rezaei-Hachesu
Clinical Risk Factors for Early-Onset Sepsis in Neonates: An International Delphi Study	Iranian Journal of Medical Sciences	2022	Nazila Moftian, Taha Samad Soltani, Kayvan Mirnia, Atefeh Esfandiari, Mohammad Saleh Tabib, Peyman Rezaei Hachesu
Virtual reality applications for rehabilitation of COVID-19 patients: A systematic review	Health Science Reports	2022	Milad Ahmadi Marzaleh, Mahmoudreza Peyravi, Negar Azhdari, Kambiz Bahaadinbeigy, Roxana Sharifian, Taha Samad-Soltani, Fatemeh Sarpourian
Virtual Reality-based Interventions for Patients with Paranoia: A Systematic Review	Psychiatry Research	2022	Elham Monaghesh, Taha Samad-Soltani, Sara Farhang
The effects of a spiral model knowledge-based conversion cycle on improving knowledge-based organizations performance	International Journal of Knowledge Management	2022	Nazila Moftian, Yousef Gheibi, Ruhollah Khara, Hamid Safarpour, Taha Samad-Soltani, Mehdi Vakili, Saeideh

	Studies		Fooladlou
Computer-aided Measurement System Using Image Processing for Measuring Cobb Angle in Scoliosis	Middle East Journal of Rehabilitation and Health Studies	2022	Nazila Moftian, Taha Samad Soltani, Zahra Salahzadeh, Hojjat Hossein Pourfeizi, Yousef Gheibi, Amir Fazlollahi, Peyman Rezaei-Hachesu
Open Innovation in Healthcare Ecosystem–a systematic review	Journal of Health Management	2022	Amir Torab-Miandoab, Taha Samad-Soltani, Peyman Rezaei-hachesu
A mechatronics data collection, image processing, and deep learning platform for clinical posture analysis: a technical note	Physical and Engineering Sciences in Medicine	2021	Zahra Salahzadeh, Peyman Rezaei-Hachesu, Yousef Gheibi, Ali Aghamali, Hamed Pakzad, Saeideh Foladlou, Taha Samad-Soltani
Information Technology Efforts Against COVID-19: A Review of Open Source Projects	Journal of Advances in Medical and Biomedical Research	2021	Nazila Moftian, Peyman Rezaei-Hachesu, Taha Samad-Soltani
Simple and Efficient Measurement of the User Experience in Health Information Systems: A Persian Version	Iranian Journal of Public Health	2021	Arefeh HESHMATI, Nazila MOFTIAN, Peyman REZAEI-HACHESU, Taha SAMAD-SOLTANI
Effectiveness of virtual reality-based exercise therapy in rehabilitation: A scoping review	Informatics in Medicine Unlocked	2021	AfsoonAsadzadeh, TahaSamad-Soltani, ZahraSalahzadeh, PeymanRezaei-Hachesu
A web-based fuzzy risk predictive-decision model of de novo stress urinary incontinence in women undergoing pelvic organ prolapse surgery	Current urology	2021	Seyyde Yalda Moosavi, Taha Samad-Soltani, Sakineh Hajebrahimi
Using a Question Answering System to Enhance Knowledge and Improve the Exchange of Information among Physicians	International Journal of Information Science and Management	2021	Farzane Ghaderi, Taha Samad-Soltani, Peyman Rezaei-Hachesu
ImmunoInformatics : a basic bibliometrics analysis	ImmunoAnalysis	2021	Elaheh Rahimpour, Taha Samad-Soltani
Integration of genomics data and electronic health records toward personalized medicine: A targeted review	Frontiers in Health Informatics	2021	Ali Najafi, Neda Emami, Taha Samad-Soltani
Determining the risk factors and characteristics of de novo stress urinary incontinence in women undergoing pelvic organ prolapse surgery: A systematic review	Turkish journal of urology	2020	Seyyde Yalda Moosavi, Taha Samad-Soltani, Sakineh Hajebrahimi, Fatemeh Sadeghi-Ghyassi, Fariba Pashazadeh, Nasrin Abolhasanpour
An intelligent system for improving adherence to guidelines on acute stroke	Turkish Journal of Emergency Medicine	2020	Amir Torab-Miandoab, Taha Samad-Soltani, Samad Shams-Vahdati, Peyman Rezaei-Hachesu

A fuzzy mobile decision support system for diagnosing of the angiographic status of heart disease	Engineering and Applied Science Research	2020	Peyman Rezaei-Hachesu, Mahsa Dehghani-Soufi, Ruhollah Khara, Nazila Moftian, <u>Taha Samad-Soltani</u>
Information visualization to support the decision-making process in the context of academic management	Webology	2020	Zakieh Piri, <u>Taha Samad-Soltani</u>, Seyyed Mohammad Hassan Elahi, Hero Khezri
Knowledge discovery and visualization in antimicrobial resistance surveillance systems: a scoping review	Artificial Intelligence Review	2020	Reza Safdari, Marjan GhaziSaeedi, Hossein Masoumi-Asl, Peyman Rezaei-Hachesu, Kayvan Mirnia, <u>Taha Samad-Soltani</u>
Newfangled Procedures Using X-ray to Determine the Cobb Angle in Patients with Scoliosis: An Updated Systematic Review	Current Medical Imaging	2019	Nazila Moftian, Peyman R Hachesu, Hojjat Hossein Pourfeizi, <u>Taha Samad-Soltani</u>, Nasser Aghazadeh, Masoud Poureisa, Zahra Salahzadeh
Usability of Central Library Websites of Iranian Universities of Medical Sciences : an Evaluation	DESIDOC Journal of Library & Information Technology	2019	Shafi Habibi, Lida Seyed-Akbari, Amir Torab-Miandoab, <u>Taha Samad-Soltani</u>
Telepsychiatry-based care for the treatment follow-up of iranian war veterans with post-traumatic stress disorder: A randomized controlled trial	Iranian journal of medical sciences	2019	Yousef Haghnia, <u>Taha Samad-Soltani</u>, Mahmood Yousefi, Habib Sadr, Peyman Rezaei-Hachesu
Topologies and performance of intelligent algorithms: a comprehensive review	Artificial Intelligence Review	2018	Armin Nabaei, Melika Hamian, Mohammad Reza Parsaei, Reza Safdari, <u>Taha Samad-Soltani,</u> Houman Zarrabi, A Ghassemi
Decision support system for triage management: A hybrid approach using rule-based reasoning and fuzzy logic	International journal of medical informatics	2018	Mahsa Dehghani Soufi, <u>Taha Samad-Soltani</u>, Samad Shams Vahdati, Peyman Rezaei-Hachesu
The design and evaluation of an antimicrobial resistance surveillance system for neonatal intensive care units in Iran	International journal of medical informatics	2018	Peyman Rezaei-Hachesu<u>, Taha Samad-Soltani</u>, Sajad Yaghoubi, Marjan GhaziSaeedi, Kayvan Mirnia, Hossein Masoumi-Asl, Reza Safdari
National minimum data set for antimicrobial resistance management: toward global surveillance system	Iranian journal of medical sciences	2018	Reza Safdari, Marjan Ghazi Saeedi, Hossein Masoumi-Asl, Peyman Rezaei-Hachesu, Kayvan Mirnia, Niloofar Mohammadzadeh, <u>Taha Samad-Soltani</u>
Design and evaluation of a paediatric neurology data management system in hospitals of Iran	International Journal of Electronic Healthcare	2018	Fatemeh Esmaeilzadeh, <u>Taha Samad-Soltani</u>, Mohammad Barzegar, Peyman Rezaei-Hachesu
Evaluation of classification algorithms vs knowledge-based methods for differential diagnosis of asthma in Iranian patients	International Journal of Information Systems in the Service Sector (IJISSS)	2018	Reza Safdari, Peyman Rezaei-Hachesu, Marjan GhaziSaeedi, <u>Taha Samad-Soltani</u>, Maryam Zolnoori

Title	Journal	Year	Authors
A Step-by-Step Framework on Discrete Events Simulation in Emergency Department; A Systematic Review	Bulletin of Emergency & Trauma	2017	Mahsa Dehghani, Nazila Moftian, Peyman Rezaei-Hachesu, Taha Samad-Soltani
Implementation and Evaluation of NICU Registry in IRAN.	Journal of Clinical & Diagnostic Research	2017	Kayvan Mirnia, Taha Samad-Soltani, Peyman Rezaei-Hachesu
A national framework for an antimicrobial resistance surveillance system within Iranian healthcare facilities: towards a global surveillance system	Journal of global antimicrobial resistance	2017	Reza Safdari, Marjan GhaziSaeedi, Hossein Masoumi-Asl, Peyman Rezaei-Hachesu, Kayvan Mirnia, Taha Samad-Soltani
The Applications of Health Informatics in Medical Tourism Industry of Iran	Iranian journal of public health	2017	Peyman Rezaei-Hachesu, Reza Safdari, Marjan Ghazisaeedi, Taha Samad-Soltani
Development of an interoperable object-oriented design for gynecology data management compatible with the iranian electronic health record	Health Information Management	2017	Hachesu Peyman Rezaei, Taha Samad-Soltani, Nazila Moftian
Designing Automatic Coding Module of Cancer Open Text Pathology Reports Based on International Classification of Diseases for Oncology	Biotechnology and Health Sciences	2017	Nazila Moftian, Peyman Rezaei-Hachesu, Mahsa Dehghani, Taha Samad-Soltani
Analyzing a lung cancer patient dataset with the focus on predicting survival rate one year after thoracic surgery	Asian Pacific journal of cancer prevention: APJCP	2017	Peyman Rezaei Hachesu, Nazila Moftian, Mahsa Dehghani, Taha Samad Soltani
Pervasive decision support systems in healthcare using intelligent robots in social media	Iranian journal of public health	2017	Taha Samad-Soltani, Peyman Rezaei-Hachesu, Marjan Ghazisaeedi
Development of a fuzzy decision support system to determine the severity of obstructive pulmonary in chemical injured victims	Acta Medica Informatica	2015	Taha Samad-Soltani, Mostafa Ghanei, Mostafa Langarizadeh
Data mining and analysis: Reporting results for patients with asthma	Journal of Payavard Salamat	2015	Taha Samad Soltani, Mostafa Langarizadeh, Maryam Zolnoori
Designing a decision support system for diagnosing pulmonary injuries in chemical victims	Journal of Military Medicine	2014	Taha Samad-Soltani, Mostafa Langarizadeh *, Mostafa Ghaneei
Automatic detection of erythemato-squamous diseases using K- Nearest Neighbor Algorithm	Frontiers in Health Informatics	2013	Taha Samad-Soltani, Mostafa Langarizadeh, Mostafa Shanbezadeh

Conferences

Conferences & Seminars	Year	Title	Location
IEEE- The 6th International Conference on Web Research (ICWR)	2020	**Low-cost interactive device for virtual reality**	Iran
IEEE- International Conference on Current Research in Computer Science and Information Technology (ICCIT), 2017	2017	**Image processing technique for determining cold thyroid nodules**	Iraq
5th International Society for Evidence-Based Healthcare Congress	2017	**Prediction of asthma control levels using data mining methods: an evidence-based approach**	Iran
6th Iranian Imaging Informatics Conference	2015	**Make a good diagnosis on clinical images by ubiquitous decision support tools**	Iran
6th Iranian Imaging Informatics Conference	2015	**A Radlex-based question and answer system for radiology practitioners to sharing knowledge and experiences**	Iran
ICEBA 2015	2015	**Design of Electronic Medical Record System of Infants, Admitted to the NICU Department of Tabriz Hospitals Affiliated to the Tabriz University of Medical Sciences**	UAE
Iranian Journal of Radiology (Special Issue of Congress)	2019	**Cobb Angle Measurement Decision Support System of Radiography Images in Patients with Idiopathic Scoliosis**	Iran

Academic & Knowledge Based Projects

Title (Descending by Date)	Date
Exploring and evaluating the requirements of a mental health education portal from the users' perspective: A sequential exploratory mixed-method study	2023
designing an intelligent model for segmentation of brain parenchyma involvement in patient with acute ischemic stroke using deep learning algorithms	2023
Analysis, data mining and knowledge engineering based on non-communicable diseases datasets in East Azarbaijan province	2023
Design, Development, Implementation and Evaluation of Electronic Medical Record in Shahid Madani Hospital of Tabriz University of Medical Sciences	2022
Design and evaluation of collaborative decision making application for patient care in emergency department	2022
Designing, implementation and Evaluation of the Effectiveness of Nursing Ethics Training Application Based on Professional Error Analysis for Smartphones	2022
design and implementation of kidney transplant donors and recipients registration system	2022
Quantitative and qualitative estimation of patient safety culture in private hospital (Shahriyar and Shams) and public hospital (Imam Reza and Aali Nasab Tabriz) using machine learning methods	2021
Designing a guideline to improve childbirth experiences as a mobile application and evaluating its effectiveness on knowledge of midwifery students	2021
Designing, implementation and evaluation of educational software base on gamification to promote principles of healthy nutrition in nursing students of Tabriz university of medical sciences	2021
Evaluating the usability of Navid e-learning national system with step-by-step cognitive method	2021
Designing an educational model of medical mycology based on virtual and augmented reality	2021
Design and evaluation of a decision-making system for determining the amount of bodily harm based on forensic medicine examinations	2021
Developing of Home Based Virtual Care Program for Patients with Chronic Wounds: An Action Research Study	2021
Design and evaluation of virtual reality training system for treatment of children with attention-Deficit/Hyperactivity Disorder	2021

The comparison of delivering low back exercises by an smartphone application and traditional methods in non-specific chronic low back pain	2020
IoT-based medication review platform design	2020
Ischemic stroke lesions segmentation in MRI images using deep learning	2020
Design and evaluation of a serious game in the process of neonatal resuscitation education	2020
Design and evaluation of a virtual reality based simulator for bronchoscopy training	2020
Design and Evaluation of a Virtual Reality-Based System for Avatar Therapy in Patients with Paranoid Schizophrenia	2019
Design, Implementation and Evaluation of rational antibiotic prescribing decision support system to neonatal intensive care unit	2019
Assessment of the impact of using Virtual Reality for treating fear of speech among students of Kerman University of Medical Sciences in 2019	2019
Study of thematic developments in biomedical data mining in the Scopus database during the period from 2008 to 2018:based on Co-word Analysis	2019
A game-based Virtual Reality exercise therapy in forward head posture: system design and evaluation	2019
Design of a risk prediction calculator for patients with urinary incontinence in moderate to severe pelvic organs prolapse Surgical candidate	2019
Designing of interactive electronic guideline in pneumonia	2018
Design an educational mobile application for the training of corrective movements of patients with scoliosis with intelligent support. Choosing the appropriate therapist treatment	2018
Design and Evaluation of Mobile-Based Information System for Severity Assessment and Therapeutic trend determination of Acute Stroke Patient	2018
Design of bio and genetic surveillance system to assessment the current and future health status of an organization employees	2018
The Usability Evaluation of the Iranian Universities of Medical Sciences Central Library Website using Cognitive walkthrough.	2017

Entrepreneurship & Innovation

Activity	Details
Founder and R&D Officer at www.SanamSashand.com	A startup & KB company focused on AI Solutions in Health and Medicine at Tabriz, Link
Founder and Head of Medical VR Lab	Tabriz University of Medical Sciences, Link
Patent : Electronic digital computing to transmit rotational motion in virtual reality environment	Iran, Link
Head of Bioinformatics and Digital Health Committee in Innovation Center of TBZMED	Tabriz University of Medical Sciences, Tabriz, Iran

Awards and honors

Achievement	Details
Top 20% ranked researchers of the University	2019. Tabriz University of Medical Sciences
Top Talent Award (2015-2016) , National Elites Foundation	2016, Iran
4th place in Medical Informatics Higher Education (Ph.D.), National Universities Entrance Exam among undergraduate Students from all over Iran	2013, Iran
7rd place in Medical Informatics Higher Education (MSc) , National Universities Entrance Exam among undergraduate , Students from all over Iran.	2010, Iran

Teaching Experiences

Title	Level
Health communication technology	MSc
Use of computer in health data analysis	MSc
computer networks	MSc
Data structure and computer programming	BSc
Application of information technology in health	MSc
Information technology in nursing	BSc
Health informatics	PhD
Health systems analysis and design 1,2	MSc, PhD
Health systems developments and evaluation	MSc
Imaging informatics in medicine	MSc
Basics of programming	BS
Introduction to computers	BSc
Standards and coding of healthcare data	MSc
Information technology in the operating room	BSc
Social networks analysis in the health	PhD
Advanced programming in medicine	MSc
Database design in healthcare	BSc
Health portal & website design	BSc
UX/UI in health information systems	BSc

Workshops & Events

Title	Location	Role
Artificial Intelligence in Healthcare	Tabriz	Instructor
Multimedia in Medical Education Using Camtasia Studio	Tabriz	Instructor
Simulators in Medical Education	Tabriz	Instructor
Virtual Reality & Augmented Reality- Practical Approach	Kerman	Instructor
Web Search Tricks to Educational Materials Design	Tabriz	Instructor
Health Information Systems- Agile Methodologies	Tehran	Instructor
Business Models in Cyberspaces	Tabriz	Instructor
Health Megatrends	Tabriz	Instructor
Health Portals	Tabriz	Instructor
MOOCS in Healthcare Education	Tabriz	Instructor

Reviewer at

Journal Title	Link
BMC Health Services Research	https://publons.com/researcher/1583019/taha-samad-soltani/
Globalization and Health	https://publons.com/researcher/1583019/taha-samad-soltani/
PLOS Computational Biology	https://publons.com/researcher/1583019/taha-samad-soltani/
Plos One	https://publons.com/researcher/1583019/taha-samad-soltani/
Health Informatics Journal	https://publons.com/researcher/1583019/taha-samad-soltani/

The International Journal of Psychiatry in Medicine	https://publons.com/researcher/1583019/taha-samad-soltani/
Journal of Informetrics	https://publons.com/researcher/1583019/taha-samad-soltani/

Books

Title	Details
Nursing informatics , Heidari Pub, Tehran, Iran, 2016. (In Persian)	Author

Management & Membership

Title	Details
Head of Smart Medical Center of University	2019-2022
Head of VR/AI Lab in University	2018-2023
Member of the Iranian Medical Informatics Association	2016-2023
Member of the National PACS Workgroup	2017-2020
Member of Emergency Medicine Research Center	2022-2023
Member of the University IT Council	2018-2021
Member of the National Entrance Question Designer (MSc, PhD)	2018-2022

Recent Practical & Technical Skills

Interests	CDSS / Virtual Reality / Gamification & Simulation / AI in Medicine / IOMT
Languages	Python / C++ / C# / XML / HTML
Database systems	MS SQL Server / MySQL / SQLite
Technologies	MVC / FOSS / Wordpress
IDEs	MS Visual Studio / Unity / Pycharm
Applications	Visual Paradigm / MS Office / Adobe Photoshop / Endnote Camtasia Studio / Linux / Mind Mapping /
Scientific tools	Orange Canvas / Pytorch / SocNetv / Raspbian / SPSS

Language

Turkish(Azeri) - Native

| Speaking | ●●●●● | Listening | ●●●●● | Reading | ●●●●● | Writing | ●●●●● |

Persian - Native

| Speaking | ●●●●● | Listening | ●●●●● | Reading | ●●●●● | Writing | ●●●●● |

English - Fluent

| Speaking | ●●●○○ | Listening | ●●●●○ | Reading | ●●●●○ | Writing | ●●●●○ |

Hobbies 🥽

- CrossFit
- Cycling
- Swimming
- Graphic Design
- Poetry
- Sci-Fi Movies