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Education

۲۰۰۶-۲۰۱۰ PhD in Health Informatics, University of Sheffield, UK

۲۰۰۰-۲۰۰۲ M.Sc. in Medical Records Education, Iran University of Medical Sciences, Iran

۱۹۹۶-۱۹۹۸ B.Sc. in Medical Records, Iran University of Medical Sciences, Iran

۱۹۹۴-۱۹۹۶ Associate Degree in Medical Records, Iran University of Medical Sciences, Iran

Employment

۲۰۲۳- **Now** Director of Deputy of Research and Technology, **School of Health Management and Information Sciences**, Iran University of Medical Sciences

۲۰۲۳- **Now** Member of Medical Informatics Evaluation and Examination Board

۲۰۲۳-**Now** Director of Deputy of Research and Technology, Health Management and Economics Research Centre, Iran University of Medical Sciences

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۲۰۱۴- ۲۰۱۶ Postgraduate and Education Office Administrator, **School of Health Management and Information Sciences**, Iran University of Medical Sciences

۲۰۰۹ Teaching Assistant, University of Sheffield, UK

۲۰۰۳-۲۰۰۵ University Lecturer, Medical Records Department, Kashan University of Medical Sciences, Iran

Publications

Google Scholar: <https://scholar.google.com/citations?user=FpWYn9cAAAAJ&hl=en&oi=ao>

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Rabiei R, **Ayatollahi H**. Medical records application in telemedicine. (Poster). In: proceedings of 4th regional conference on e-Health: Building the electronic health record. Iran, Tehran, 7-9 September 2004.

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Books

Mirasgahri F, **Ayatollahi H**, Velayati F. Digital Healthcare, Digital Transformation and Citizen Empowerment in Asia-Pacific and Europe for a Healthier Society. Digital transformation of healthcare services during Covid-۱۹: Exploring challenges of using telemedicine by patients with diabetes. Patricia De Pablos, (editor). Elsevier, ۲۰۲۴.

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Ayatollahi H. Health Data Science and Semantic Technologies. In: Data Science with Semantic Technologies: Theory, Practice and Application. Archana Patel, Narayan C. Debnath, Bharat Bhusan (eds). John Wiley & Sons, ۲۰۲۲.

Ayatollahi H. Point-of-Care Diagnostics with Smartphone. In: Smartphone-Based Detection Devices. Chaudhery Mustansar Hussain, (editor). Elsevier, ۲۰۲۱.

Hemmat M, **Ayatollahi H**, Maleki MR, Saghafi F. Health information technology foresight: concepts and implementation methods. Tehran: Arvan, ۲۰۱۸.

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Research Projects

۲۰۲۴- Prediction of long-term kidney transplant survival using machine learning methods

- ۲۰۲۳- Characteristics of the cohort data management systems: A scoping review
- ۲۰۲۳- Factors influencing acceptance and use of extended reality in surgery training: A systematic review of systematic reviews
- ۲۰۲۳- The applications and challenges of using artificial intelligence in health tourism
- ۲۰۲۳- The impact of using artificial intelligence on the education of international students in health sciences
- ۲۰۲۳- Developing a clinical decision support system for predicting drugs side effects in children with congenital heart disease
- ۲۰۲۳- Application of virtual reality for supportive care in cancer patients: A systematic review
- ۲۰۲۳- A systematic review of using clinical decision support systems in corneal diseases
- ۲۰۲۳- A systematic review of the application of computer-based simulation in pediatric cardiovascular diseases
- ۲۰۲۲- Performance evaluation of the ۴۰۳۰ call center during COVID-۱۹ pandemic
- ۲۰۲۲-The use of telemedicine technology for cancer patients during the Covid-۱۹ pandemic-A scoping review
- ۲۰۲۲-The application of telemedicine in cardiovascular disease management during the Covid-۱۹ pandemic- A scoping review
- ۲۰۲۱-A systematic review of the impact of tele-care interventions on the quality of life in older adults
- ۲۰۲۰-Specialists' perspectives about using tele-speech therapy
- ۲۰۱۹-Developing a mobile-based ontology for Persian medicine diseases
- ۲۰۱۷- A feasibility study of using mobile technology to manage chronic diseases of the elderly people based on the geriatric professionals perspectives
- ۲۰۱۷- A systematic review of the effectiveness of telerehabilitation in older adult
- ۲۰۱۶- A study on the acceptance of telemedicine for physicians and nurses in diabetes management
- ۲۰۱۵- Developing a mobile-based e-learning program for the mothers of premature infants

۲۰۱۴- Success factors of knowledge management in healthcare organisations: A systematic review

۲۰۱۳- Developing a teleophthalmology system

۲۰۱۲- The analysis of traffic accidents data recorded in medical records of teaching hospitals affiliated to Tehran University of Medical Sciences using a Geographic Information System

۲۰۱۱- A study on the experts' views about the barriers to the development and adoption of electronic health records (EHR)

M.Sc. Dissertation Supervisor

۲۰۲۳- Fatemeh Mirasgahri. Challenges of using telemedicine for patient with diabetes during the Covid-۱۹ pandemic

۲۰۲۲- Zahra Zolfaghari. Factors influencing the acceptance and application of mobile health technology for post-abortion care

۲۰۲۲- Arabani Nezhad M. Developing an oxygen therapy e-learning course for emergency physicians and nurses

۲۰۲۲- Majid Mohseni. Developing a mobile-based application for electronic patient-reported outcomes in prostate cancer

۲۰۲۱ -Chekin N. Developing a clinical decision support system for assessing the risk of cervical cancer

۲۰۲۱- Ebrahimi F. Developing a clinical decision support system for diagnosing and determining the severity of dry eye disease

۲۰۲۱- MokhberDezfuli M. Developing a smartphone-based application for self-management in patients with multiple sclerosis

۲۰۱۹- Mohseni N. Developing a mobile-based application for assessing and diagnosing delirium in burn patients

۲۰۱۹- Dehnavi Z. Factors influencing the use of health information technology in diabetes management

۲۰۱۸- Hoseini F. Requirements for integrating genetic data with the electronic health records system in Iran

۲۰۱۸- Ghalandarabadi M. A feasibility study of using web-based and mobile- based technologies for high-risk pregnant women

- ۲۰۱۵ -Shagerdi Sh. Assessing the risks threatening information security in the hospitals of Tabriz
- ۲۰۱۴-Nazari Z. Usability evaluation of a traffic casualty's information system from the users' perspectives in public Hospitals
- ۲۰۱۴-Rahmani Katigari M. Developing a fuzzy expert system for diagnosis of diabetic neuropathy
- ۲۰۱۴ -Pourfard sarabi FZ. A comparison of clinicians' awareness and perception of telemedicine technology in the health centres affiliated to the social security organization in Tabriz
- ۲۰۱۳-Karimi S. Designing a model for newborn screening information management
- ۲۰۱۳- Hasannezhad M. Developing a web-based system for self-care management of type ۱ diabetes
- ۲۰۱۳- Hosseinian V. Requirements of information security in telemedicine
- ۲۰۱۳- Mehdizadeh H. Developing a teledermatology system for nursing homes
- ۲۰۱۲- Koohestani A. A study on the factors influencing user acceptance of hospital information systems based on technology acceptance model (TAM)
- ۲۰۱۲ - Nazemi Z. A study on the fitness between features of patient accounting systems and users' requirements in the hospitals affiliated to Tehran University of Medical Sciences
- ۲۰۱۲- Roozbehi M. Comparing doctors' and nurses' views about the impact of a computerized physician order entry (CPOE) system on their workflow in Shahid Beheshti hospital in Yasouj
- ۲۰۱۲- Chenani H. Comparing nurses' satisfaction with, and expectations of, hospital information systems in the selected teaching hospitals affiliated to Tehran university of medical sciences
- ۲۰۱۲-Mehraeen E. Information security of hospital information systems used in the hospitals affiliated to Tehran and Shahid Beheshti universities of medical sciences
- ۲۰۱۱-Seyyed Esfahani L. A study on the relationship between the readiness of medical records department staff in taking new roles of health information management and the motivational and deterrents factors of participation in continuing education courses.
- ۲۰۱۱-Mirani N. Experts' views on the barriers to the development and adoption of electronic health records (EHR) in IRAN

M.Sc. Dissertation advisor

۲۰۱۴ -Tabatabaie SM. Developing a protocol for assessing picture archiving and communication systems

۲۰۱۱ -Atlasi R. A study on the scientific and practical features of clinical librarians with an emphasis on their role in the process of evidence-based medicine

Ph.D. Thesis Supervisor

۲۰۲۴- Eslami Jahromi M. Performance evaluation of the ۴۰۳۰ call center during COVID-۱۹ pandemic

۲۰۲۲- Shagerdi G. Proposing a model for using health information technology in geriatrics emergency care

۲۰۲۱- Velayati F. Developing a telehealth business model framework

۲۰۲۰- Shojaee-Mend H. Developing a fuzzy ontology case-based reasoning system for stomach dystemperament in Persian medicine

۲۰۲۰- Mirani N. Developing a conceptual model for an injury surveillance information system

۲۰۲۰- Nourani A. Developing a web-based data management system for diabetes clinical trials

۲۰۱۹- Yazdanian A. Developing a conceptual model for an oncology information system

۲۰۱۸- Mashoufi M. Data quality assessment in emergency medical services

۲۰۱۷- Hemmat M. Health Information technology foresight for Iran until ۲۰۲۰

External examiner of PhD students

۲۰۲۳- Rezayi S. Developing a serious game to enhance the cognitive skills of children with autism

۲۰۲۳- Saeedi S. Designing and developing a mobile-based speech rehabilitation game for children with speech disorders, Tehran University of Medical Sciences

۲۰۲۳- Eslami P. Design, implementation and evaluation of a growth monitoring system for childhood growth disorders, Tehran University of Medical Sciences

۲۰۲۲- Ensan N. Designing a prototype for complicated grief, Shahid Beheshti University

۲۰۲۲- Ghavami B. Designing a prototype of ecoaching for cancer caregivers, Shahid Beheshti University

International collaborations

۲۰۲۳ Webinar on cancer data management-Damascus University, Syria

۲۰۲۳ External examiner of a PhD thesis-University of Fort Hare, South Africa

Memberships

۲۰۲۴- **Now** Editorial Review Board- Digital Health

۲۰۲۳-**Now**- Guest editor for BMC Digital Health-Digital therapeutics

۲۰۲۳-**Now** Section editor of PLOS Digital Health-Telehealth & mHealth section

۲۰۲۳-**Now** A member of the Global Burden of Disease (GBD) Collaborator Network

۲۰۲۲-**Now** Editorial Board Member of BMC Digital Health

۲۰۲۰-**Now** A member of the Middle East and North African Health Informatics Association (MENAHA)

۲۰۱۹-**Now** A member of the Iranian Medical Informatics Association (iRAMI)

۲۰۱۹- **Now** A member of the Health Management and Economics Research Center, Iran University of Medical Sciences

۲۰۱۱- **Now** A member of the postgraduate subcommittee- Iran University of Medical Sciences, School of Health Management and Information Sciences

۲۰۱۴- ۲۰۱۵ A member of the research committee- Iran University of Medical Sciences, School of Health Management and Information Sciences

۲۰۱۱-۲۰۱۲ A member of the educational network- Tehran University of Medical Sciences, School of Health Management and Information Sciences

۲۰۱۰-۲۰۱۱ A member of the research committee- Tehran University of Medical Sciences, School of Health Management and Information Sciences

Other activities

۲۰۱۰-**Now Journal reviewer-** JMIR journals, BMC Medical Informatics and Decision Making, International Journal of Medical Informatics, Healthcare Informatics Research, Journal of Biomedical Informatics, Journal of Advanced Nursing, Journal of Medical Internet Research, Computers in Biology and Medicine, BMC Nursing, International Journal of Health Planning and Management, Journal of Interprofessional Care, Digital Health, Journal of Health Administration, Payesh, Payavard Salamat, etc.

Skills

Computer: MS Project, ATLAS Ti, NVivo, Endnote, SPSS, HTML, Web Design, System analysis

English Language: Professional level, Teachers Training Certificate (TTC)

Awards and Grants

۲۰۲۳ **Best thesis with a focus on Research in Education, ۸th Vosough Festival, Iran** University of Medical Sciences (M. Arabaninezhad, M.Sc. thesis)

۲۰۲۳ **Best thesis with a focus on education and research, ۸th Vosough Festival, Iran** University of Medical Sciences (N. Mohseni Moalem Kalaei, M.Sc. thesis)

۲۰۲۳ Editorial Board Member - International Research Excellence and Citation Awards

۲۰۲۰ **Best paper presentation award, ۹th National Burn Congress, Tehran, Iran**

۲۰۱۹ **Khayam Award for a selected PhD thesis.**

۲۰۱۷ **“Future day” Festival Award for a selected paper; Kerman, Iran.**

۲۰۱۷ **“Future day” Festival Award for a selected PhD thesis; Kerman, Iran.**

۲۰۱۷ **Best paper presentation award, ۵th IT Managers national Conference, Tehran, Iran.**

۲۰۰۹ **Best paper presentation award, ۱۴th International Symposium for Health Information Management Research (ISHIMR ۲۰۰۹); Kalmar, Sweden**

۲۰۰۸ **Research Excellence Grant, University of Sheffield**

۲۰۰۵ Full-time PhD scholarship, Ministry of Health and Medical Education, Iran

۲۰۰۴ Travel bursary to attend the ‘Healthcare Management’ short course in Germany, Ministry of Health and Medical Education, Iran

۲۰۰۱ **Top student** prize, Iran University of Medical Sciences

Research Interests:

Health data science, telemedicine, telehealth, mhealth, ehealth, health information system, user-centered information systems design, evaluation of health information systems, systematic reviews, IT adoption and change management