In the Name of GOD (He is the First and the Last)

Somayyeh Zakerabasali, *Assistant Professor of Medical Informatics, Shiraz University of Medical Sciences*

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Related links:

Scopus: *https://www-scopus-com.ezproxy.udes.edu.co/authid/detail.uri?authorId=57216633866*

Google Scholar:
https://scholar.google.com/citations?view_op=list_works&hl=fa&user=zMwTzBMAAAAJ&gmla=AJsN-F7ihzgCvanrxS78mVhBKNExWanzrVQvEPF0tUPYIYccFjzA7SIDNDB9kzZE21y8FMDdBPqPBpiIe91oNMi MHbQKE2S5lU3dWLyA9dNDA80OSg_tl72T3Cc6IYeUq2ACtQnNw5um

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Education:

- o Ph.D in Medical Informatics, Tehran University Of Medical Sciences, Tehran, Iran (2016-2019)
- o M.Sc. In Medical Informatics, Shiraz University Of Medical Sciences, Shiraz, Iran (2012-2015)
- o B.Sc. In Software engineering, Islamic Azad University of Shiraz, Shiraz, Iran (Sep 2000- 2004)

Professional experiences and Occupations:

- o IT manager, Shiraz University of Medical Sciences / Shahid Faqihi Medical Education Center (2006-2017)
- o Educational mission for specialized doctorate studies (2017-2019)
- o Responsible for the dashboard and statistics of Shiraz University of Medical Sciences (2019-2021)
- o Assistant Professor, Department of Health Information Technology and Medical Informatics, Faculty of Medical Information and Management (2021 to now)

Publications:

 Articles:

1. Kiani S, Rezaei I, Abasi S, **Zakerabasali S**, Yazdani A. Technical aspects of virtual augmented reality-based rehabilitation systems for musculoskeletal disorders of the lower limbs: a systematic review. BMC Musculoskeletal Disorders. 2023 Dec;24(1):1-25.

2. Nazemi M, Kiani S, **Zakerabasali S**. Tele- mental health during the COVID- 19 pandemic: A systematic review of the literature focused on technical aspects and challenges. Health Science Reports. 2023 Jan;6(10):e1637.

3. **Zakerabasali S**, Ayyoubzadeh SM. Internet of Things and healthcare system: A systematic review of ethical issues. Health Science Reports. 2022 Nov;5(6):e863.

4. Ayyoubzadeh SM, Shirkhoda M, R Niakan Kalhori S, Mohammadzadeh N, **Zakerabasali S**. A smartphone remote monitoring app to follow up colorectal cancer survivors: requirement analysis. JMIR cancer. 2022 Jan 5;8(1):e18083.

5. **Zakerabasali S**, Kadivar M, Safdari R, Niakan Kalhori SR, Mokhtaran M, Karbasi Z, Sayarifard A. Development and validation of the Neonatal Abstinence Syndrome Minimum Data Set (NAS-MDS): a systematic review, focus group discussion, and Delphi technique. The Journal of Maternal-Fetal & Neonatal Medicine. 2022 Feb 16;35(4):617-24.

6. **Zakerabasali S**, Sharifian R. Usability Evaluation of Laboratory Information System by the Model of Usefulness, Satisfaction, and Ease of Use (USE). Health Management & Information Science. 2021 Apr 1;8(2):90-7.

7. **Zakerabasali S**, Ayyoubzadeh SM, Baniasadi T, Yazdani A, Abhari S. Mobile health technology and healthcare providers: systemic barriers to adoption. Healthcare Informatics Research. 2021 Oct 31;27(4):267-78.

8. Zahmatkeshan M, **Zakerabasali S**, Farjam M, Gholampour Y, Seraji M, Yazdani A. The use of mobile health interventions for gestational diabetes mellitus: a descriptive literature review. Journal of medicine and life. 2021 Mar;14(2):131.

9. **Zakerabasali S**, Safdari R, Kadivar M, Rostam Niakan Kalhori S, Mokhtaran M, Karbasi Z, Sayarifard A, Abhari S. Neonatal abstinence syndrome: a systematic review of current databases and registries. The Journal of Maternal-Fetal & Neonatal Medicine. 2021 Mar 19;34(6):979-92.

10. Karbasi Z, Kadivar M, Safdari R, Shahmoradi L, Zahmatkeshan M, **Zakerabasali S**, Abhari S, Sayarifard A. Better monitoring of abused children by designing a child abuse surveillance system: Determining national child abuse minimum data set. The International journal of health planning and management. 2020 Jul;35(4):843-51.

11. Abhari S, Safdari R, Azadbakht L, Lankarani KB, Kalhori SR, Honarvar B, Abhari K, Ayyoubzadeh SM, Karbasi Z, **Zakerabasali S**, Jalilpiran Y. A systematic review of nutrition recommendation systems: with focus on technical aspects. Journal of biomedical physics & engineering. 2019 Dec;9(6):591.

12. Baniasadi T, Niakan Kalhori SR, Ayyoubzadeh SM, **Zakerabasali S**, Pourmohamadkhan M. Study of challenges to utilise mobile-based health care

monitoring systems: a descriptive literature review. Journal of telemedicine and telecare. 2018 Dec;24(10):661-8.

13. Sadati AK, Lankarani KB, Tabrizi R, Rahnavard F, **Zakerabasali S**. Evaluation of 30-day unplanned hospital readmission in a large teaching hospital in Shiraz, Iran. Shiraz E-Medical Journal. 2017 Apr 1;18(4).

14. **Zakerabasali S**, Monem H, Sharifian R, Khajouei R. Usability evaluation of Ulite web-based picture archiving and communication systems software in Shiraz University of medical science hospitals. Health Management & Information Science. 2015 Oct 7;2(4):132-7.

15. Ravangard R, Kazemi Z, **Abbasali SZ**, Sharifian R, Monem H. Development of the UTAUT2 model to measure the acceptance of medical laboratory portals by patients in Shiraz. Electronic physician. 2017 Feb;9(2):3862.

□ *Conference Proceedings:*

o Mobile Health Technology for Monitoring and Management of Inflammatory Bowel Disease: a systematic review of technical aspects. The first international congress of artificial intelligence in medical sciences. 2023

o Knowledge and Perception of Physicians Towards Telemedicine Technology. The 5th International Mobile Health Congress. 2023

o Social Media in the COVID-19 Pandemic, A Systematic Review of the Literature. The 5th International Mobile Health Congress. 2021

o The role of telemedicine in COVID-19 pandemic. The 4th International Mobile Health Congress. 2021

o Mobile Solutions for Home Health Care/monitoring. The 4th International Mobile Health Congress. 2021

o A review on the role of mobile health in the elderly with Alzheimer's disease. The 4th International Mobile Health Congress. 2021

o Usability Evaluation of Web-based COVID-19 Dashboard: A Heuristic Evaluation. The 4th International Mobile Health Congress. 2021

o Architecture and Standards of Mobile health applications. The 4th International Mobile Health Congress. 2021

o Evaluation Methods of Mobile health Applications: Content, Usability, and Efficacy. The 4th International Mobile Health Congress. 2021

o The role of telephone and SMS systems in following up the process of patient care. International Mobile Health Congress

o Desirable features of smartphones in the health system. International Mobile Health Congress

o Application of Mobile health in patients with asthma. International Mobile Health Congress

o A new development in radiology using technology Mobile Health. International Mobile Health Congress

o Introducing a questionnaire to measure the level of acceptance of laboratory portals using patient equipment. International Mobile Health Congress

o radiology in devices mobile using of Benefits. International Mobile Health Congress

o Electronicization of hemovigilance forms in order to manage blood bag information and improve patient safety, 4th national conference on the promotion of health information management and its role in the implementation of the health transformation plan

- Evaluation of the applicability of viewing medical images through mobile devices. International Mobile Health Congress
- Opportunities and challenges of using information technology in treatment-oriented organizations in Iran. Transformation of the health system with the approach of resistance economy
- based-Web of Applicability of Assessment. 6th Imaging Informatics Conference
- Assessment of Utilization of portable devices for PACS in shiraz Using technology Acceptance Model. 5th Imaging Informatics Conference
- Information in security an e-learning enviroment, The first international congress and the sixth conference of Environment learning-e an Security in Information of 12 countries on electronic learning in medical sciences
- Assessing the Challenges of family Physician program referral system. International family doctor seminar
- Evaluation of the usability of the laboratory information system from the users' point of view. 5th national conference on the promotion of health information management
- Issuance of electronic letter of introduction for patients with Kausar supplementary insurance through the kiosk. 5th national conference on the promotion of health information management
- Electronicization of Greensheet forms for easy and quick access to patient information. 5th national conference on the promotion of health information management
- Impact of Mobile Applications in the Prevention of Infections Related to Health Care. 2th international mobile health congress
- Improving prediction of lung cancer by using voting technique in data mining .1th National Congress of Medical Informatics
- Investigating and analyzing the characteristics of patient care monitoring information systems: a systematic review. 2th National Medical Informatics Congress and 7th Electronic Health Conference
- Designing and evaluating the applicability of mobile-based remote counseling application using exploratory method. 2th National Medical Informatics Congress and 7th Electronic Health Conference
- New realities: a review on effectiveness of virtual technologies in the treatment of multiple sclerosis patients. 2th National Medical Informatics Congress and 7th Electronic Health Conference
- Barriers to m-Health Adoption by healthcare providers: a systematic review. 3th international mobile health congress
- Prioritizing implementation obstacles of mobile phone-based speech recognition systems in the field of health using the Fuzzy Hierarchy Analysis Process (FAHP) method . 3th international mobile health congress
- The Study and Analysis of Patient Care Monitoring Information System (PCMIS) Characteristics: a Systematic Literature Review. Successes and Failures in Annual Meeting of th Telehealth , 9 the Australasian Telehealth Society 22-24 October 2018 (SFT-18 AUSTRALIA)
- Study of Challenges to Utilize Mobile Based Health Care Monitoring System : a Systematic Literature Review . Successes and Failures in Annual Meeting of th Telehealth , 9 the Australasian Telehealth Society 22-24 October 2018 (SFT-18 AUSTRALIA)

Research Projects:

Evaluation of the usability of medical tourism websites in Iran, 2023

Identifying and prioritizing the factors affecting the loyalty of users of mobile health applications, 2023

Predicting the length of hospital stay in trauma patients based on machine learning techniques, 2023

Designing and evaluating the effectiveness of self-care application for chest trauma patients, 2023

Presenting a predictive model for diagnosing acute kidney injury in the intensive care unit based on machine learning methods, 2023

Development and evaluation of the nutrition management application for children under 5 years old, 2022

Examining the attitude of patients towards electronic prescription in Shiraz city in 1401: a qualitative study, 2022

Development and evaluation of mobile phone-based remote therapy practice application for patients with facial paralysis, 2022

Development and evaluation of a prototype collaborative decision support system for choosing the type of weight loss surgery for patients with obesity, 2022

Design, implementation and evaluation of the electronic medical file discharge module in the public special care department of Namazi Hospital, 2022

Development and evaluation of a remote rehabilitation system prototype for patients after knee replacement surgery, 2022

Development of a mobile-based system for remote screening and training of mental health of pregnant women, 2022

Quantitative and qualitative investigation of the impact of social networks on providing the information needs and mental health of pregnant mothers during the coronavirus pandemic, 2021

Prototype design of therapeutic exercise based on virtual reality in physical therapy of lower limbs, 2021

Evaluation of the usability of the web-based management dashboard of the Shiraz University of Medical Sciences for Covid-19: two integrated methods based on the user and the expert, 2021

Designing and creating a reference platform for participation and ranking of artificial intelligence algorithms presented in order to diagnose patients with the 2019 coronavirus (Covid-19) in Fars province, 2020

Designing and creating a competitive platform for participation and ranking of artificial intelligence algorithms presented in order to diagnose patients with the 2019 coronavirus (Covid-19) (Tehran), 2020

Development of serious game prototype for teaching emotional skills to children with autism spectrum disorder, 2019

Designing and creating and evaluating the information registration and care management system for babies born to drug-addicted mothers, 2019

Design and evaluation of a mobile phone-based self-assessment application for mild cognitive impairment, 2018

Development of an integrated model of acceptance and use of technology 2 in the use of electronic portals of medical diagnostic laboratories in line with applicability, 2018

Evaluation of the applicability of laboratory information system from the point of view of the users of Shahid Faqihi educational and therapeutic center of Shiraz, 2018

Designing, implementing and evaluating the system for recording and monitoring physical injuries of suspected child abuse cases (children with possible abuse) in the medical center., 2017

Design, implementation and evaluation of the information registration system for babies born to mothers with a history of drug abuse in medical centers

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Thesis (Supervisor, Advisor, and Reviewer):

1. Completed

   o The decision to develop and evaluate a prototype of a collaborative assistant system for choosing the type of weight loss surgery for patients with obesity
   o Development and evaluation of a remote rehabilitation system prototype for patients after knee replacement surgery
   o Quantitative and qualitative study of the impact of social networks on providing the information needs and mental health of pregnant mothers during the coronavirus pandemic
   o Prototype design of therapeutic exercise based on virtual reality in physical therapy of lower limbs

2. In progress

   o Design, implementation and evaluation of the electronic medical file discharge module in the public special care department of Namazi Hospital
   o Development and evaluation of mobile phone-based remote therapy practice application for patients with facial paralysis
   o Predicting the length of hospital stay in trauma patients based on machine learning techniques
   o Presenting a predictive model for diagnosing acute kidney injury in the intensive care unit based on machine learning methods
   o Designing and evaluating the effectiveness of self-care application for chest trauma patients
   o Identifying and prioritizing the factors affecting the loyalty of users of mobile health applications
   o Development of a mobile-based system for remote screening and training of mental health of pregnant women