

Curriculum Vitae

Sharareh R. Niakan Kalhori

Current Position: Associate Professor at Department of Health Information Management, School of Allied Medical Sciences, Tehran, Iran

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

ResearchGate: https://www.researchgate.net/profile/Sharareh_Rostam_Niakan_Kalhori

EDUCATIONS

The University of Manchester, School of Computer Sciences, Department of Machine Learning & Optimization, Manchester, United Kingdom

-PhD, Informatics, Thesis Title: An Integrated Supervised and Unsupervised Learning Approach to Predict the Outcome of Tuberculosis Treatment Course
Supervisor: Dr.Xiao-Jun Zeng, Defencedate: August 2011

Iran University of Medical sciences, School of Health Services Management and Information Sciences, Tehran, Iran

-MSc, Health Services Management,Dissertation Title:Analysing General Teaching Hospitals Efficiency and Effectiveness Affiliated to Iran University of Medical Sciences Based on Hospitals Administration Reform"
Supervisor: Dr.EbrahimSadaghiani, Defencedate: February 2002

Iran University of Medical sciences, School of Health, Tehran, Iran

-BSc, Public Health, Iran University of Medical Sciences, Dissertation Title: Analysing the incidence rate of Tuberculosis in Iran and comparing with neighbour countries
Supervisor: Dr.FarbodEbadifard, February 1999

POSITIONS AND JOBEXPERIENCES

-Associate Professor, Department of Health Information Management, School of Allied Medical Sciences, Tehran University of Medical, August 2018 up to present.

-Assistant Professor, Department of Health Information Management, School of Allied Medical Sciences, Tehran University of Medical, July 2015 to July 2018.

-Assistant Professor, Department of Public Health, School of Health, Ahvaz Jundishapur University of Medical Sciences, July2012- June 2015.

-**Researcher and PI** at Non-communicable Disease Research Centre (NCDRC), Endocrinology and Metabolism Research Institute, Tehran University of Medical Sciences, Tehran, Iran, January 2012 to September 2015.

-**Administrator & Health Team coordinator** of Health Staff at Family Health Unit for 3 Years in Deputy of Health at Kurdistan University of Medical Sciences, 2003-2006.

-**Healthcare provider** at Family Clinic for pregnant women and under 5 children monitoring, Kamyaran, Kurdistan, 2001- 2002.

RESPONSIBILITIES

-**Manager of Research affairs** at School of Allied Medical Sciences, Tehran University of Medical Sciences, Tehran, Iran, September 2018 by present.

-**Manager of Research affairs** at Department of Health Information Management, School of Allied Medical Sciences, Tehran University of Medical Sciences, Tehran, Iran, February 2016 by present.

-**PI of National Project of "Hospital Data"** as a part of the study of burden of disease, Injuries and risk factors estimation in National and sub-national levels in Iran (NASBOD), 2012-2015.

-**Director of Student Research Committee** at School of Health, Ahvaz Jundishapur University of Medical Sciences, April 2013- July 2015.

PROFESSIONAL MEMBERSHIP

-Iranian Medical Informatics Association

-IAENG, International Association of Engineering

-British Computer Society

-Iran Communication and Information Technology Association

AWARDS

-Merit award (student) for the best oral presented paper to the world congress on Engineering and Computer Science, October 2009, San Francisco, USA.

-Merit award (student) for the best poster presented to the International Congress of Children Traffic Road Injuries, May 2015, Shiraz, Iran.

-First Class Honor Student in Master Degree from Iran University of Medical Sciences, 2002.

RESEARCH PROJECTS

-**National Project of "Hospital Data"** as a part of the study of burden of disease, Injuries and risk factors estimation in national and sub-national level in Iran (NASBOD), aimed to collect inpatient records from all hospital across Iran through an online and offline system based on electronic version of a valid questionnaire, 2012 – 2015, Completed at NCDRC, TUMS.

-**The study of Taxi drivers' risky behaviors and related influential factors analysis among Ahvazi taxi drivers in 2012.** The project has completed in May 2015. Registry code: 92589, Completed at AJUMS.

-To develop a validated predictive model to classify under 5 year old children for unintentional home injury 2013-2015. Registry code: 91706, Completed at AJUMS.

-Prognosis Analysis of Liver Fibrosis among Chronic Hepatitis B Patients Using Markov Chain Model, Registry Code: 95-01-31-31355, to be completed due to June 2019, Faculty of Allied Medical sciences, Tehran University of Medical Sciences.

-Design, Development and Evaluation of a Mobile-Internet-based information System to follow up patients with Endotracheal intubation in the ICU for Tracheal Stenosis Screening, to be completed due to March 2019 at the Tracheal Research Centre, Lung Research Institute, Shahid Beheshti University of Medical Sciences.

PUBLISHED PEER REVIEWED JOURNAL PAPAERS

1) Conformity of Diabetes Mobile Apps with the Chronic Care Model

Authors: Raheleh Salari, Sharareh R. Niakan Kalhori, Marjan Ghazisaeidi, Farhad Fatehi; BMJ Health & Care Informatics, 2019, 26, 1:1-6.

2) Questionnaire development and validation for designing a health telemonitoring system for frail elderly people

Authors: Ahmadreza Shamsabadi, Ahmad Delbari, Ahmad Siar Sadr, Esmail Mehraeen, Niloofar Mohammadzadeh, Sharareh R. Niakan Kalhori; Digital Health, 2019, 5: 1–11.

3) Studying the influence of mass media and environmental factors on influenza virus transmission in the US Midwest

Authors: Sharareh R. Niakan Kalhori, Marjan Ghazisaeedi, Rasoul Azizi, Aahmad Naserpour; Public Health, 2019, 22, 170:17 [Epub ahead of print]

4) An Environmental Based Approach to the Modification of Conventional Influenza Epidemic Models in Iran

Authors: Ahmad Naserpor, Sharareh R. Niakan Kalhori, Marjan Ghazisaeedi, Rasoul Azizi, Mohamad Hosseini Ravandi, Sajad Sharafie; Healthcare Informatics Research, 2019, 25 (1), 27-32.

5) Modifying a method for human reliability assessment based on CREAM-BN: A case study in control room of a petrochemical plant

Authors: Gholam_Abbas Shirali, Taher Hosseinzadeh, Kambiz Ahamadi_angali, Sharareh R. Niakan Kalhori; MethodsX, 6 (2019) 300–315.

6) Which Social Factors Affect the Exacerbation and Modification of Risky Behavior Motorecyclists? The Results of an Analytical Study in Tehran (In Persian)

Authors: Nasim Narimani, Sharareh R. Niakan Kalhori, Fereshteh Zamani-Alavijeh, Hashem Mohamadian, Arash Salahshouri; Journal of Health System Research, 2019, 14(4), 480-486.

7) [Words Prediction Based on N-Gram Model for Free-Text Entry in Electronic Health Records](#)

Authors: Azita Yazdani, Reza Safdari, Ali Golkar, Sharareh R. Niakan Kalhori; Health Information Science and Systems, 2019, 7(6), 1-7.

8) [Data Requirements for Information Management System Development for Poisoning with Acidic and Alkaline Substances](#)

Authors: Zahra Mahmoudvand, Shahin Shadnia, Sharareh R. Niakan Kalhori, Maryam Zahmatkeshan, Marjan Ghazisaeedi; Acta Informatica Medica, 2019, 27(1), 29-34.

9) [Identifying System Information Requirements: The First Step in Designing a Registration System for Patients with Rheumatoid Arthritis \(in Persian\)](#)

Authors: Marjan Ghazi Saeedi, Masoumeh Akhlaghi Kalahroodi, Sharareh R. Niakan Kalhori, Elaheh Omidvari Abarghuei; Journal of Payavard Salamat, 2019, 12(5), 376-385.

10) [Study of challenges to utilize mobile based health care monitoring systems: A descriptive literature review](#)

Authors: Tayebeh Baniyasi, Sharareh R. Niakan Kalhori, Seyed Mohammad Ayyoubzadeh, Somayyeh Zakerabasali, Marjan Pourmohamadkhan; Journal of Telemedicine and Telecare, 2018, 24 (10), 661–668.

11) [Criteria for assessing the quality of mHealth apps: a systematic review](#)

Authors: Rasool Nouri, Sharareh R. Niakan Kalhori, Marjan Ghazisaeedi, Guillaume Marchand, Mobin Yasini; Journal of the American Medical Informatics Association, 2018; 25(8):1089-1098.

12) [Design and Evaluation of Mobile Based Self-Management System for Tuberculosis](#)

Authors: Hajar Hasannezhad, Reza Safdari, Sharareh R. Niakan Kalhori, Bahram Nikmanesh; Journal of Payavard Salamat, 2018; 12 (3):230-238 (In Persian).

13) [Informational elements requirements for managed care diabetic foot patient apps \(In Persian\)](#)

Authors: Mahsa Mosadegh_Nik, Sharareh R. Niakan Kalhori, Reza Safdari, Farhad Fatehi; Journal of Payavard Salamat, 2018, 12(4): 273-285.

14) [Intelligent tutoring systems: a systematic review of characteristics, applications, and evaluation methods](#)

Authors: Elham Mousavinasab, Nahid Zarifsanaiey, Sharareh R. Niakan Kalhori, Mahnaz Rakhshan, Leila Keikha, Marjan Ghazi Saeedi; Journal of Interactive Learning Environments, December 2018.

15) [The Framework of NICU-discharge Plan System for Preterm Infants in Iran: Duties, Components and Capabilities](#)

Authors: Sedigheh Seyedfarajollah, Fatameh Nayeri, Sharareh R Niakan Kalhori, Marjan Ghazisaeedi, Leila Keikha; Acta Informatica Medica, 2018; 26(1): 46–50.

16) [A Proposed Model based on Information Technology for Parents? Education to Improve Child Safety \(In Persian\)](#)

Authors: Neda Sadat Boveer, Sharareh R. Niakan Kalhori, Reza Safdari; Journal of Journal of Health and Biomedical Informatics, 2018, 5(3), 325-336.

17) [Management of Computerized Cognitive Training Programs in Children with ADHD: The Effective Role of Decision Support Systems](#)

Authors: Marjan Ghazisaeedi, Leila Shahmoradi, Sharareh R. Niakan Kalhori, Azadeh Bashiri; Iranian Journal of Public Health, 2018, 47(10), 1611-1612.

18) [Quantitative EEG features selection in the classification of attention and response control in the children and adolescents with attention deficit hyperactivity disorder](#)

Authors: Azadeh Bashiri, Leila Shahmoradi, Hamid Beigy, Behrouz A Savareh, Masood Nosratabadi, Sharareh R. Niakan Kalhori, Marjan Ghazisaeedi; Future Sci. OA, 2018, FSO292, 1-14.

19) [Predicting Length of Stay in Intensive Care Units after Cardiac Surgery: Comparison of Artificial Neural Networks and Adaptive Neuro-fuzzy System](#)

Authors:Hamidreza Maharlou, Sharareh R. Niakan Kalhori, Shahnaz Shahbazi, Ramin Ravangard; Healthcare Informatics Research, 2018, 24 (2), 109-117.

20) [Forecasting zoonotic cutaneous leishmaniasis using meteorological factors in eastern Fars province, Iran: A SARIMA Analysis](#)

Authors:HamidReza Tohidinik, Mehdi Mohebali, Mohammad Ali Mansournia, Sharareh R. NiakanKalhori, Mohsen Ali-Akbarpour, Kamran Yazdani; Eroupean Journal of Tropical Medicine and International Health, 2018, 23(8), 860-869.

21) [A burden assessment of occupational exposures in Iran, 1990–2010: Findings from the global burden of disease study 2010](#)

Authors: Sharareh R Niakan Kalhori, Ali Behzadi, HamidrezaMaharlou, ShadiRahimzadeh, Alireza Khajavi, Gholamreza Pouryaghoub, Ramin Mehrdad, Omid Aminian, Alireza Jeddian, Shohreh Naderimagham; International journal of preventive medicine, 2018; 9: 56-61.

22) [Lipid profile and the risk of stroke: a study from North of Iran](#)

Authors: Mahdi Habibi-koolae, Leila Shahmoradi, Sharareh R Niakan Kalhori, Hossein Ghannadan, Ali Hosseini, Erfan Younesi; Journal of Research in Medical and Dental Science, 2018 6(1), 343-349.

23) [Prevalence of Stroke Risk Factors and Their Distribution Based on Stroke Subtypes in Gorgan: A Retrospective Hospital-Based Study, 2015-2016](#)

Authors: Mahdi Habibi-koolae, Leila Shahmoradi, Sharareh R Niakan Kalhori, Hossein Ghannadan, Erfan Younesi; Neurology research international, 2018, Article ID 2709654, 7 pages.

24) Tuberculosis incidence perception by geographic information system in Iran(In Persian)
Authors: Atefeh Sedighnia, Sharareh R. Niakan Kalhori; Modern Medical Information Science 2018, 3 (2), 41-48.

25) The Performance of K-Nearest Neighbors on Malignant and Benign Classes: Sensitivity, Specificity, and Accuracy Analysis for Breast Cancer Diagnosis

Authors: Arash Roshanpour, Marjan Ghazisaeidi, Sharareh R. Niakan Kalhori, Keyvan Maghooli, Reza Safdari; International Journal of Computer Applications, 2017, 180(8), 33-37.

26) Data Mining Techniques Applications in Patient-Centered Mobile Based Information Systems: a Systematic Review

Authors: Mina Fallah, Sharareh R. Niakan Kalhori; Healthcare Informatics Research, 2017, 23(4), 262-270.

27) Risk factors of Non-fatal Unintentional Home Injuries among Children under 5 Years Old; a Population-Based Study

Authors: Sedigheh Nouhjah, Sharareh R Niakan Kalhori, Azadeh Saki; Emergency, 2017, 5(1), 1-6.

28) Prevalence of and risk factors for multidrug-resistant tuberculosis in Iran and its neighboring countries: systematic review and meta-analysis

Authors: Worku Jimma, Marjan Ghazisaeedi, Leila Shahmoradi, Ahmed Abdulahi Abdurahman, Sharareh R. Niakan Kalhori, Mahshid Nasehi, Mohamad SharifiYazdi, Reza Safdari; Revista da Sociedade Brasileira de Medicina Tropical, 2017, 50(3), 287-295.

29) Item Selection and Content Validity of the Risk Factors of Post-Intubation Tracheal Stenosis Observation Questionnaire for ICU-Admitted Patients

Authors: Roya Farzanegan, Behrooz Farzanegan, Maryam Alehashem, Mahdi Zangi, Sharareh R. Niakan Kalhori, Kambiz Sheikhy, Habib Emami, Mohammad Behgam Shadmehr;
Tanaffos, 2017, 16(1), 22-33.

30) Systematic Review of Hospital Based Cancer Registries (HBCRs): Necessary Tool to Improve Quality of Care in Cancer Patients

Authors: Zeinab Mohammadzadeh, Marjan Ghazisaeedi, Azin Nahvijou, Sharareh R. Niakan Kalhori, Somayeh Davoodi, Kazem Zendehtdel; Asian Pacific Journal of Cancer Prevention, 2017, 18(8), 2027-2033.

31) Occupational Disease Registries—Characteristics and Experiences

Author: Somayeh Davoodi, Khosro Sadeghniat, Haghghi, Sharareh Rostam Niakan Kalhori, Narges Shams Hosseini, Zienab Mohammadzadeh, Reza Saftdari; Acta Informatica Medica, 2017, 25(2),136-140.

32) Designing a Drug Delivery System for Regulation of Blood Pressure Using Fuzzy Controller (In Persian)

Authors: Melika Babaei, Hesam Karim, Sharareh Rostam Niakan; Journal of Health and Biomedical Informatics, 2017, 4(2), 132-141.

[33\) Preconceived stakeholders' attitude toward telepathology: Implications for successful implementation](#)

Authors: Elahe Gozali, Reza Safdari, Malihe Sadeghi, Marjan Ghazi Saeidi, Sharareh R Niakan Kalhori, Farahnaz Noroozinia, Zahra Zare Fazlollahi, Bahlol Rahimi; Journal of pathology informatics, 2017, 8: 50

[34\) Mobile Health Apps: References Reliability Analysis \(in Persian\)](#)

Authors: Marjan GhaziSaeedi, Sharareh R. Niakan Kalhori, MobinYasini, Rasool Nouri; Health Information Management, 2017, 14(1), 44-8.

[35\) Web and Mobile Based HIV Prevention and Intervention Programs Pros and Cons, A Review](#)

Authors: Sharareh R. Niakan Kalhori, Esmaeil Mehraeen, Tayebeh Noori, Elaheh Gozali; Studies in Health Technology and Informatics, 2017, 236, 319-327.

[36\) The Impact of Post-Discharge Call Interviews to Improve the Screening of Post-Intubation Tracheal Stenosis: An Experimental Study](#)

Authors: Roya Farzanegan, Maryam Alehashem, Behrooz Farzanegan, Sharareh R Niakan Kalhori, Mohammad Gholami Fesharaki, Mahdi Zangi, Mohammad Behgam Shadmehr; Iranian Red Crescent Medical Journal, 2016, 19(1), 1-11.

[37\) Persian mHealth Apps: A Cross Sectional Study Based on Use Case Classification](#)

Authors: MarjanGhazisaeei, Sharareh R. NiakanKalhori, RasoulNouri, MobinYasini; Studies in health technology and informatics, 2016, 1(1), 230-234.

[38\) Computerized techniques pave the way for drug-drug interaction prediction and interpretation](#)

Authors: Reza Safdari, Reza Ferdousi, Kamal Aziziharis, Sharareh R. Niakan Kalhori, Yadollah Omidi; Bioimpacts, 2016, 2(6), 71-78.

[39\) Burden of Sexually Transmitted Infections in Iran from 1990 to 2010: Results from the Global Burden of Disease study 2010](#)

Authors: Shadi Rahimzadeh, Shohreh Naderimaghan, MarziehRohani-Rasaf, Parinaz Mehdipour, SeyedSaeed Hashemi Nazari, Masoud Lotfizadeh, Sharareh R. Niakan Kalhori, Fereshteh Davoudi, Atefeh Noori, Kianoush Kamali; Archives of Iranian Medicine, 2016, 9(11), 768 – 773.

[40\) Impact of Training High School Female Students in Ahvaz, Iran in the Social Skills Required to Avoid the Use of Drugs](#)

Authors: Freshteh Zamani Alavijeh, Zahra Raisi, Abdolrahim Asadollahi, Reza DavasazIrani, Sharareh R. Niakan Kalhori; Electronic Physician, 2016, 8(5), 2346–2354.

41) [A Comparative Study of Perceived Social Support and Self-Efficacy among Women with Wanted and Unwanted Pregnancy](#)

Authors: Parvin Shahry, Sharareh R. Niakan Kalhori, Azar Esfandiyari, Feresteh Zamani Alavijeh; International Journal of Community Based Nursing and Midwifery, 2016, 4(2), 176–185.

42) [Validity and reliability assessment of Safety Culture Questionnaire based on IAEA model in an oil and gas exploration company in Ahvaz\(in Persian\)](#)

Authors: Afshin Dibekhosravi, Gholam Abbas Shirali, Sharareh R. Niakan Kalhori, Taher Hosseinzadeh, Kambiz Ahmadi-Angali, Fatemeh Tanha; Iran Occupational Health, 2016, 13(3), 12-23.

43) [A clinical decision support system for prediction of pregnancy outcome in pregnant women with systemic lupus erythematosus](#)

Authors: Khadije Paydar, Sharareh R. Niakan Kalhori, Mahmoud Akbarian, Abbas Shiekh-taheri; International Journal of Medical Informatics, 2016, 11(1), 239-246.

44) [An intelligent system for prioritizing emergency services provided for people injured in road traffic accidents](#)

Authors: Mohammad Taghi Taghavifard, Sharareh R. Niakan Kalhori, Pegah Farazmand, Khatereh Farazmand; Mediterranean journal of social sciences, 2016, 7(1), 354-362.

45) [Comparing Performance of Data Mining Algorithms in Prediction Heart Diseases](#)

Authors: Moloud Abdar, Sharareh R Niakan Kalhori, Toile Sutikno, Imam Much Ibnu Subroto, Goli Arji; International Journal of Electrical and Computer Engineering, 2015, 5(6), 1569-1576.

46) [Designing an artificial neural network for prediction of pregnancy outcomes in women with systemic lupus erythematosus in Iran\(In Persian\)](#)

Authors: Mahmoud Akbarian, Khadijeh Paydar, Sharareh R. Niakan Kalhori, Abbas Sheikhtaheri; Tehran University of Medical Journal, 2015, 73(4), 251-259.

47) [The Quality Assessment of Performance in Intensive Care Units According to APACHE II Score](#)

Authors: Manaf Abdi, Shahram Tofighi, Sharareh R. Niakan Kalhori, Abbas Ebadi, Roohollah Zaboli, Mohammad Hossein Basirat, Esmail Feyzi; International Journal of Travel Medicine & Global Health, 2015, 3(3), 123-126.

48) [Nursing students motivations and satisfaction, Do the motivation and satisfaction of nursing students change during their study years?](#)

Authors: Abdolhussein Shakurnia, Houshang Alijani, Nasrin Khajeali, Sharareh R. Niakan Kalhori; Journal of Health, Medicine and Nursing, 2015, 13, 28-35.

49) [Bayesian Autoregressive Multilevel Modeling of Burden of Diseases, Injuries and Risk Factors in Iran 1990–2013](#)

Authors: Amir Kasaeian, Mohammad Reza Eshraghian, Abbas Rahimi Foroushani, Sharareh R. Niakan Kalhori, Farshad Farzadfar; Archives of Iranian Medicine, 2014, 17(1), 22-27.

[50\) Inpatient Data, Inevitable Need for Policy Making at National and Sub-national levels: A Lesson Learned from NASBOD](#)

Authors: Sharareh R Niakan Kalhori, Batool Tayefi, Atefe Noori, Marziye Mearaji, Shadi Rahimzade, Elham Zandian, Hamid Ravaghi, Farshad Sharifi, Farshad Farzadfar; Archives of Iranian Medicine, 2014, 17(1), 16-21.

[51\) Application of Spatio-temporal Model to Estimate Burden of Diseases, Injuries and Risk Factors in Iran 1990 – 2013](#)

Authors: Mahboubeh Parsaeian, Hojjat Zeraati, Mahmood Mahmoudi, Gelareh Rahimi, Iman Navidi, Sharareh R. Niakan Kalhori, Kazem Mohammad, Majid Jafari Khaledi, Farshad Farzadfar; Archives of Iranian Medicine; 2014,17(1), 28-32.

[52\) Artificial Neural Networks Application to Predict Type of Pregnancy in Women Equal or Greater Than 35 Years of Age](#)

Authors: Sedigheh Nouhjah, Sharareh R. Niakan Kalhori; International Journal of Computer and Information Technology, 2014, 3(1), 177-182.

[53\) Improvement the Accuracy of Six Applied Classification Algorithms through Integrated Supervised and Unsupervised Learning Approach](#)

Authors: Sharareh R. Niakan Kalhori, Xiao-Jun Zeng; Journal of Computer and Communications, 2014, 2(1), 201-209.

[54\) The Survey of Business Intelligence in Hospital: Our Experience and Literature Review](#)

Authors: Shahram Tofighi, Abbas Ebadi, Roohollah Zaboli, Sharareh R. Niakan Kalhori, ManafAbdi, Mohammad Hossein Basirat, EsmaeilFeyzi; International Journal of Medical Reviews, 2014,1(4), 163-167.

[55\) Investigation of Influencing Factors of Taxi Drivers' Risky Behavior in Ahvaz in 2013\(in Persian\)](#)

Authors: Fariba Tahmasebi, Freshteh Zamani Alavijeh, Sharareh R. Niakan Kalhori, Abdolrahim Asadolahi; Scientific Journal of Ilam University of Medical Sciences, 2014, 22(6), 143-151.

[56\) Impact of social Skills on Drug Abstinence Self-Efficacy among boy students in Ahvaz, Iran\(In Persian\)](#)

Authors: Zahra Raeisi, Fereshteh Zamani Alavijeh, Abdolrahim Asadollahi, Sharareh R. Niakan Kalhori; Journal of Health Systems research, Health Education Supplementary, 2014, 2019-2023.

[57\) Evaluation and Comparison of Different Machine Learning Methods to Predict Outcome of Tuberculosis Treatment Course](#)

Authors: Sharareh R. Niakan Kalhori, Xiao-Jun Zeng; Journal of Intelligent Learning Systems and Applications, 2013, 5, 184-193.

58) [A logistic regression model to predict high risk patients to fail in tuberculosis treatment course completion](#)

Authors: Sharareh R. Niakan Kalhori, Mahshid Nasehi, Xiao-Jun Zeng; International Journal of Applied Mathematics, 2010, 40(2), 1-8.

PRESENTATION&CONFERENCE PROCEEDING

[-Fuzzy Logic Approach to Predict the Outcome of Tuberculosis Treatment Course Destination](#)

International Conference in Modeling Health Advances, Location: San Francisco, USA, Date: 20 October 2009, Authors: Sharareh R. NiakanKalhori, Xiao-Jun Zeng, Oral Presentation, Proceedings of the World Congress on Engineering and Computer Science, Volume 2.

[-Predicting the Outcome of Tuberculosis Treatment Course in Frame of DOTS-From Demographic Data to Logistic Regression Model](#)

International Conference of Health Informatics, Location: Porto, Portugal, Date: 20-21 January 2009, Authors: Sharareh R. NiakanKalhori and Xiao-Jun Zeng, Oral Presentation& Abstract, Volume: 1

[-Developing a mobile based fuzzy expert system for diabetic retinopathy risk estimation](#)

Successes and Failures in Telehealth 2016, Location: Auckland, New Zealand, Date: 1ST of November, 2016-3November, 2016, Authors: Sharareh R. NiakanKalhori, Masoumeh R. NiakanKalhori , FarhadFatehi, Participant.

[-Data Mining Techniques for Patient-Centered Mobile-Based Information Systems: Applications toward Personalized Care](#)

Successes and Failures in Telehealth 2016, Location: Auckland, New Zealand, Date: 1stNovember 2016-3November 2016, Authors: ShararehR. NiakanKalhori, Mina Fallah, FarhadFatehi, Participant.

[-Using neural network as a screening and educational tool for under 5 years of age children injuries](#)

4th International conference on: Reducing Burden of Traffic Accident: Challenges & strategies Location: Shiraz, Iran, Date: 26-27 February 2014, Authors: ShararehR.NiakanKalhori, SadighehNoohjah, Poster Presentation.

[-Artificial Neural Networks to predict the menopausal Age among women living in Ahvaz](#)

The First International Congress of Menopause, Location: Ahvaz, Date: 17-18 February 201, Authors: SedighehNouhjah, Sharareh R NiakanKalhori, Poster Presentation.

[-Toward a conceptual framework for mobile-based diabetes management system: an evaluation of functions and features of best mobile apps for diabetes](#)

International Conference on Successes and Failures in Telehealth (SFT-15), Brisbane, Australia, 30-31 October 2015, Authors: RahelehSalari, FarhadFatehi, Sharareh R. NiakanKalhori, Poster Presentation.

[-Developing a mobile based fuzzy expert system for diabetic retinopathy risk estimation](#)

Successes and Failures in Telehealth 2016, 7th Annual Meeting of the Australasian Telehealth Society, Auckland, New Zealand, 1-3 November, 2016, Authors: Sharareh R. NiakanKalhori, FarhadFatehi, Masoumeh R. NiakanKalhori, Poster Presentation.

[-Artificial Intelligence Applications for Diabetic Patient Remote care](#)

Successes and Failures in Telehealth 2017, 8th Annual Meeting of the Australasian Telehealth Society, Brisbane, Australia, 30-31 October, 2017, Authors: Sharareh R. NiakanKalhori, HamidrezaMaharlou, Poster Presentation.

[-Engineering a mobile-based self-management system for tubercular patients: TBMed Development study](#)

Successes and Failures in Telehealth 2017, 8th Annual Meeting of the Australasian Telehealth Society, Brisbane, Australia, 30-31 October, 2017, Authors: Sharareh R. NiakanKalhori, HajarHasanNezhad, Reza Safdari, Oral Poster Presentation.

[-Mobile health \(mHealth\) for chronic wound management: a review of the literature](#)

Successes and Failures in Telehealth 2017, 8th Annual Meeting of the Australasian Telehealth Society, Brisbane, Australia, 30-31 October, 2017, Authors: MahsaMosadeghi-nik, Sharareh R. Niakan-Kalhori, FarhadFatehi, Oral Presentation.

[-A survey on computer and mobile application features and characteristics designed for alcohol and substance abuse treatment interventions: A systematic review](#)

Successes and Failures in Telehealth 2017, 8th Annual Meeting of the Australasian Telehealth Society, Brisbane, Australia, 30-31 October, 2017, Authors: Marzyeh S Askari, Sharareh R. NiakanKalhori, MarjanGhazisaeedi, FarhadFatehi, Poster Presentation.

[-Decision Support Algorithms for Clinical Evaluation of EEG; Experience of ADHD Patients](#)

The First National Congress of Medical Informatics, Location: Mashhad/Iran, Date: 2/2017-2/2017, Authors: MarjanGhazisaeedi, Leila Shahmoradi, Sharareh R. NiakanKalhori, AzadehBashiri, Abstract Presentation, Journal: ActaInformatica, No:1, Supplement 2017.

[-Chat Bots Applications and Efficiency for Patient Self-management Support](#)

The First National Congress of Medical Informatics, Location: Mashhad/Iran, Date: 2/2017-2/2017, Authors: SadriehHajesmaeelGohari, Zahra Karbasi, ShararehR.NiakanKalhori, Abstract Presentation, Journal: ActaInformatica, No: 1, Supplement: 2017.

[-Effectiveness of Virtual Reality Technology Application in Medical Education: A Review of Evidences](#)

The First National Congress of Medical Informatics, Location: Mashhad/Iran, Date: 2/2017-2/2017, Authors: Zahra Karbasi, ShahabeddinAbhari, Sharareh R. NiakanKalhori, SadriehHajesmaeelGohari, Abstract Preparation, Journal: Acta Informatics, No: 1, Supplement 2017.

[-Virtual reality applications for chronic diseases care: a review study](#)

Successes and Failures in Telehealth 2016, Location: Auckland, New Zealand, Date: 1stNovember 2016-3November 2016, Authors: ShararehR.NiakanKalhori, Sadrieh Haj-Esmaili, FarhadFatehi, Participant.

-Decision Tree Development to Analyze Influential Factors Effecting on Patients Length of Stay at Intensive Care Unit After Cardiac Surgery

The 2nd National Congress of Medical Informatics, Location: Tehran/Iran, date: 2/2017-2/2017, Authors: Hamidreza Maharlou, Ramin Ravangard, Sharareh R. Niakan Kalhori, Shahrbanoo Shahbazi, Poster Presentation.

-Fuzzy Logic Approach to Predict the Outcome of Tuberculosis Treatment Course Destination

Authors: Sharareh R. Niakan Kalhori, Xiao-Jun Zeng, Proceedings of the World Congress on Engineering and Computer Science 2009, WCECS 2009, October 20-22, 2009, San Francisco, USA, 2009, 2(1), 1-5.

ATTENDED WORKSHOPS & TRAINING COURSE

-Artificial Intelligence by Tehran University, October-November 2018

-Deep learning & Neural Networks for Data Analysis by Tehran University, August 2018

-Clear and simple English Academic Writing by NIMAD, November 2016.

-Advanced Systematic Review and Meta-analysis by NIMAD, September 2016.

-Research Tool Design and Validation by Ahvaz Jundishapur Medical University, July 2013.

-MATLAB by the University of Manchester, February 2007.

-STATA by the University of Manchester, January 2008.

THESIS COUNSULTANCY & SUPERVISION

-To predict reproductive number and Incidence rate of Influenza using deep learning methods

Team: Ahmad Naserpour, Sharareh R. Niakan Kalhori, Marjan Ghazisaeedi

Role: the first supervisor, PhD of Medical Informatics, in progress

-To design and create a tuberculosis incidence predicting system using time series neural network and geographic information system in Iran

Team: Atefeh Sedighnia, Sharareh R. Niakan Kalhori, Mahshid Nasehi, Mohamad Hanafi, Role: the first supervisor, MSc of Medical Informatics, Defense Date: 8/2017.

- To predict the probability of advanced fibrosis and Liver cirrhosis in patients with chronic Hepatitis B

Team: Maryam Zare, Sharareh R. Niakan Kalhori, Hossein Poustchi,

Role: First Supervisor, MSc of Medical Informatics, Defence Date; 9/2017.

-To design and evaluate mobile based self-management information system for tuberculosis control

Team: Hajar Hasan-nezhad, Reza Safdari, Sharareh R. Niakan Kalhori, Mahshid Nasehi, Role: Second supervisor, MSc of Medical Informatics, Defence Date; 1/2017.

-To design and create mobile based blood oxygen control system for infants respiratory machine

Team: Mohammad Reza Moradi, Marjan Ghazi Saeedi, Sharareh R. Niakan Kalhori, Mohammad Reza Zarkesh, Amir Hossein Panahi

Role: the second supervisor, MSc of Medical Informatics, Defence Date: 2/2017.

-To design and create the android based consulting system for Diabetes type II patients

Team: Reza Nazari, Reza Safdari, Sharareh R. Niakan Kalhori, FarhadFatehi,

Role: the second supervisor, MSc of Medical Informatics, Defence Date: 1/2017.

-To design and Implement an intelligent systems to monitor the quality of hospital based gastric cancer registry

Team: Zienab Mohamadzadeh, Marjan Ghazisaeedi, Kazem Zendehtdel, Sharareh R. Niakan Kalhori, Azin Nahvijoo

Role: Advisor, PhD of Health Information Management, Defence Date: 9/2017.

-Intelligent Prediction of Drug-Drug Interaction based on Metabolic Pathways

Team: Reza Safdari, Reza Ferdousi, Yadollah Omid, Kamal Azizihis, Sharareh R. Niakan Kalhori

Role: Advisor, PhD of Medical Informatics, Defence Date: 2/2017.

-To design a clinical decision support system for predicting pregnancy outcomes in pregnant women with lupus

Team: Khadijeh Paydar, Abbas Shiekhtaheri, Mahmoud Akbarian, Sharareh R. Niakan Kalhori

Role: Advisor, MSc of Medical Informatics, Defence Date: 1/2015.

-To design and Evaluate a Mobile-based Self-Care System for Patients with Rheumatoid Arthritis

Team: Zahra Nazari, Marjan Ghazi Saeedi, Sharareh R. Niakan Kalhori, Reza Safdari,

Role: Advisor, MSc of Medical Informatics, Defence Date: 1/2017.

-Development of an Intelligent Information System to Monitor Elderly's Health Status Inhabitant at home

Team: Zahra Raeisi, Sharareh R. Niakan Kalhori, Mahtab Alizadeh,

Role: First Supervisor, MSc of Medical Informatics, Defence Date: 10/2017.

CONFERENCE ORGANIZING

-Member of Scientific Committee, the Second International congress of Medical Informatics, July 2018, Tehran, Iran, Related Link: <http://mieh-2018.modares.ac.ir>.

-Scientific Secretary, the First National Congress of Medical Informatics

February 2017, Mashhad, Iran, Related Link: <http://cong-dhr.mums.ac.ir/en/page.php?rid=9>

-Member of Panel, the 2nd International Congress on Electronic Health, February 2017, Tehran, Iran.

-Member of Scientific Committee, the First International congress of disease and outcome registry, February 2017, Mashhad, Iran, Related Link: <http://cong-dhr.mums.ac.ir/en/>

PROGRAMMING SKILLS

Python (*currently my major focus is on python for Machine Learning and Deep Learning*), MATLAB, WEKA (Waikato Environment for Knowledge Analysis), SPSS.

PASSED COURSES

Preparation courses before starting the PhD from September 2006- January 2007 at the University of Manchester:

- Fundamental of Health Informatics
- JAVA Programming Language
- Principle of Epidemiology
- Statistical modeling in health
- 5-week English Language course in Language Centre, University of Manchester, August 2006

LANGUAGE PROFICIENCY

Persian (Native)

English (**Writing**: Very Good, **Speaking**: Very Good, **Reading**: Very Good, **Listening**: Very Good), Academic IELTS Score 6.5 in 2006 as a requirement for The University of Manchester entrance for PhD program.

TEACHING SUBJECTS in Persian/English

- Data Mining and Knowledge Discovery (for PhD Course)
- Intelligent Information Systems (for PhD Course)
- Clinical Decision Support systems (for PhD Course)
- Medical Informatics (for PhD Course)
- Research Design in Medical Informatics (for MSc of HIT/international students)
- System development and software engineering in Health (for PhD Course)
- Design and Assessment of Health Information Systems (for PhD Course)
- Programming and Data Structure (for MSc of HIT/international students)

REFERENCES

Professor Reza Safdari, Health Information Management Department, School of Allied Medical Sciences, Tehran University of Medical Sciences, Tehran, Iran, Email:rsafdari@tums.ac.ir

Dr.Xio-jun Zeng, Machine Learning & Optimization Department, School of Computer Science, University of Manchester, UK, Email: x.zeng@manchester.ac.uk

Dr. Farshad Farzadfar, Chair of Non-Communicable Diseases Research Centre, Endocrinology and Metabolism Research Institute, Tehran University of Medical Sciences, Email: farzadfar3@yahoo.com