

Mehran Kamkarhaghi

Ph.D. Student at University of Ontario Institute of Technology

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Education:

- ✓ (Since 2015) Ph.D. Student in Electrical and Computer Engineering in University of Ontario Institute of Technology, Oshawa, Ontario, Canada
- ✓ (2016) Certificate in University Teaching for Teaching Assistants from UOIT Teaching and Learning Centre, Oshawa, Ontario, Canada
- ✓ (2014) Visiting Researcher in University of Ontario Institute of Technology, Oshawa, Ontario, Canada
- ✓ (2011-2015) Ph.D. student in Medical Informatics in Shahid Beheshti University of Medical Sciences, Tehran, Iran
- ✓ (2005) Master of Science in Computer Architecture from Sharif University of Technology, Tehran, Iran
- ✓ (2003) Bachelor of Science in Computer Engineering (Hardware) from Islamic Azad University Central Branch, Tehran, Iran

Honors and Awards:

- ✓ Ontario Graduate Scholarship (OGS), Ontario Ministry of Training, Colleges, and Universities, 2017-2018
- ✓ Top student in the field of medical informatics, Shahid Beheshti University of Medical Sciences, 2014

Research Interests:

- ✓ Legal Analytics
- ✓ Document Representation
- ✓ Information Extraction
- ✓ Named-Entity Recognition
- ✓ Text Classification
- ✓ Text Mining
- ✓ Data Mining

Publication:

- ✓ M. Kamkarhaghighi and M. Makrehchi, "Content Tree Word Embedding for Document Representation," *Expert Systems with Applications*, 2017.
- ✓ M. Kamkarhaghighi, M. Kamkarhaghighi, P. Mirza-Babaei, P. Mirza-Babaei, K. El-Khatib, K. El-Khatib, *et al.*, "Architecture guideline for game-based stroke rehabilitation," *World Journal of Science, Technology and Sustainable Development*, vol. 14, pp. 228-240, 2017.
- ✓ M. Kamkarhaghighi, P. Mirza-Babaei, and K. El-Khatib, "Game-Based Stroke Rehabilitation," in *Recent Advances in Technologies for Inclusive Well-Being*, ed: Springer, 2017, pp. 147-162.
- ✓ M. R. Katigari, H. Ayatollahi, M. Malek, and M. K. Haghighi, "Fuzzy expert system for diagnosing diabetic neuropathy," *World journal of diabetes*, vol. 8, p. 80, 2017.
- ✓ M. Kamkarhaghighi, I. Chepurna, S. Aghababaei, and M. Makrehchi, "Discovering Credible Twitter Users in Stock Market Domain," in *Web Intelligence (WI), 2016 IEEE/WIC/ACM International Conference on*, 2016, pp. 66-72.
- ✓ H. Moghaddasi, S. Sajjadi, and M. Kamkarhaghighi, "Reasons in Support of Data Security and Data Security Management as Two Independent Concepts: A New Model," *The open medical informatics journal*, vol. 10, p. 4, 2016.
- ✓ Z. Mahmoudvand, M. Kamkar, L. Shahmoradi, and A. F. Nejad, "Determination of Minimum Data Set (MSD) in Echocardiography Reporting System to Exchange with Iran's Electronic Health Record (EHR) System," *Acta Informatica Medica*, vol. 24, p. 116, 2016.
- ✓ H. Ayatollahi, M. Hasannezhad, H. S. Fard, and M. K. Haghighi, "Type 1 diabetes self-management: developing a web-based telemedicine application," *Health Information Management Journal*, vol. 45, pp. 16-26, 2016.
- ✓ H. Moghaddasi and M. Kamkarhaghighi, "Conceptual and practical evolution of the virtual hospital," *Razi Journal of Medical Sciences*, vol. 21, pp. 1-11, 2015.
- ✓ J. Zarei, A. Mohammadi, M. E. Kameli, H. M. Kamkar, And M. K. Amini, "A Survey on The Status of The Application of Document Imaging for Storage Medical Records of Hospitals In Iran, 2013," 2015.
- ✓ H. Mehdizadeh, H. Ayatollahi, N. Esmaeili, and M. Kamkar, "Designing and building a teledermatology system," *Journal of Mazandaran University of Medical Sciences*, vol. 25, pp. 170-184, 2015.
- ✓ P. Mirza-Babaei, M. Kamkarhaghighi, and K. Gerling, "Opportunities in game-based stroke rehabilitation," in *Games Media Entertainment (GEM), 2014 IEEE*, 2014, pp. 1-4.

- ✓ J. Zarei, M. Kamkarhaghighi, And A. Khash, "Revision of The Laws for Medical Records Retention in Hospitals in Iran," 2014.
- ✓ M. Kameli, H. M. Kamkar, M. Parvan, and J. Zarei, "The medical records maintenance in hospitals of Iran: A national survey," 2014
- ✓ H. Mahdizadeh, H. Ayatollahi, N. Esmaeili, and K. Mehran Kamkar, "Teledermatology: A comparison of reliability and accuracy of diagnoses with those in the face to face visits," *Journal of Dermatology and Cosmetic*, vol. 4, pp. 148-156, 2013.
- ✓ S. Asadzandi, A. Shahbodaghi, S. Sajjadi, M. Kamkarhaghighi, and M. Hemmat, "A scientometric study of media literacy literature based on Scopus record through 2011," *Journal of Paramedical Sciences*, vol. 4, 2012.
- ✓ M. Kamkarhaghighi, M. Ghazisaedi, M. Meraji, and K. Kimiafar, "Comparison of Open Source Learning Management Softwares and Presenting a Native Evaluation Tool," *Iranian Journal of Medical Education*, vol. 11, pp. 398-407, 2011.
- ✓ M. Barabadi, M. Ahmadi, And H. M. Kamkar, "Evaluation of hospital information systems in the medical records department," 2010.
- ✓ F. Sadoughi, M. Kamkar, and Z. Shahinfar, "Evaluation of hospimp (hospital import)," *Journal of Mazandaran University of Medical Sciences*, vol. 19, pp. 68-72, 2009.
- ✓ M. Setayesh Barhaghi, M. Kamkar Haghighi, and M. Alizadeh, "Designing natural disaster management information system," *Journal of Health Administration*, vol. 10, pp. 45-54, 2007.

books:

- ✓ Abbasi, A. Sharifian, S. Goharinejad, S. Kamkarhaghighi, M. "Quality Assurance: A reference system for indicators and evaluation procedures including NSSE Questionnaire", Tehran, Iran, Nehzat Pooya publication, 1st Edition, 2012
- ✓ Kamkarhaghighi, M. Abbasi, A. "E-Learning: Questions and Answers", Tehran, Iran, Nehzat Pooya publication, 1st Edition, 2009
- ✓ Bahador, H. Kamkarhaghighi, M. Agah, Sh. "Mobile-Learning", Tehran, Iran, Nehzat Pooya publication, 1st Edition, 2009
- ✓ Parvizy, S. Hajamiri, P. Kamkarhaghighi, M. "Index of Medical Sciences Education and E-Learning", Tehran, Iran, Nehzat Pooya publication, 1st Edition, 2009

Conference Presentation:

- ✓ **Kamkarhaghighi, M.** Chepurna, I. Aghababaei, S. Makrehchi, M. "Discovering Credible Twitter Users in Stock Market Domain", Presented in IEEE/WIC/ACM International Conference on Web Intelligence, 2016, Omaha, Nebraska, USA
- ✓ Mirza-Babaei, P. **Kamkarhaghighi, M.** Filho, F. Gerlin, K. "Opportunities in Game-Based Stroke Rehabilitation", Presented in IEEE Games, Entertainment, and Media (GEM) Conference, 2014, Toronto, Canada
- ✓ **Kamkarhaghighi, M.** "Comprehensive Website Evaluation Criteria for Patient Education", Presented in the 2nd National Congress on patient education, 2014, Tehran, Iran
- ✓ **Kamkarhaghighi, M.** "Nano Medical informatics and its Role in Development of Medicine", Presented in the 3rd Medical Informatics Seminar for students, 2013, Tehran, Iran
- ✓ Mehdizadeh, M. Ayatollahi, H. Esmaeili, N. **Kamkarhaghighi, M.** "Tele dermatology: comparison of diagnostic accuracy and compliance with physical examinations", First Telemedicine Conference, 2013, Tehran, Iran
- ✓ **Kamkarhaghighi, M.** "IT and patient education", Presented in the 1st National Congress of patient education, 2012, Tehran, Iran
- ✓ **Kamkarhaghighi, M.** Zehtabhashemi, H. "Cloud Computing in Health Sector", Presented in the 1st Symposium of The Role of Basic Science in Health Promotion, 2012, Tehran, Iran
- ✓ Borjalilu, S. Mohammadi, A. **Kamkarhaghighi, M.** Mojtahedzadeh, R. "Prediction of academic self-regulation By component of e-learning environmental system" 5th Electronic Learning Congress in Medical Education, 2012, Kerman, Iran
- ✓ **Kamkarhaghighi, M.** Zolfkhani, S. "Information and Communication Technology in Medicine", Presented in the 2nd Medical Informatics Seminar for students, 2012, Tehran, Iran
- ✓ Zehtabhashemi, H. **Kamkarhaghighi, M.** "Cloud Computing and its usage in Healthcare", Presented in the 2nd Medical Informatics Seminar for students, 2012, Tehran, Iran
- ✓ Maboudi, AA. Rahmatizadeh, Sh. **Kamkarhaghighi, M.** "Using Wavelet for Compressing CT-Scan Images", Presented in the 2nd Medical Informatics Seminar for students, 2012, Tehran, Iran
- ✓ Medanlo, M. **Kamkarhaghighi, M.** "E-Learning in Nursing", Presented in the 2nd Medical Informatics Seminar for students, 2012, Tehran, Iran
- ✓ Abbasi, A. **Kamkarhaghighi, M.** Setayesh, M. "Review the effect of using Computer Assisted Assessment System in comprehensive examination in medical basic sciences in Iran University of Medical Sciences", Abstract accepted to be presented at international Journal of Arts & Sciences (IJAS) Conference for academic disciplines, 2010, Aix-en-Provence, France
- ✓ **Kamkarhaghighi, M.** Meraji, M. Ghazisaeidi, M. Ramezanghorban, N. Kimiafar,

- K."Comparative study of four open source code learning management systems", Presented in the Electronic University Conference, 2010, Tehran, Iran
- ✓ **Kamkarhaghighi, M.** Meraji, M. Ghazisaeidi, M. Ramezanghorban, N. Kimiafar, K." Review of making e-learning's content standards ", Presented in the Electronic University Conference, 2010, Tehran, Iran
 - ✓ **Kamkarhaghighi, M.** Meraji, M. Ghazisaeidi, M. Ramezanghorban, N. Kimiafar, K."Comparative Study of open source code learning management systems; to provide a native model ", Presented in the 3th national conference on implementation of e-Learning in medical sciences, 2010, Mashhad, Iran
 - ✓ **Kamkarhaghighi, M.** Meraji, M. Ghazisaeidi, M. Ramezanghorban, N. Kimiafar, K." Review of e-learning standards with emphasis on SCORM ", Presented in the 3th national conference on implementation of e-Learning in medical sciences, 2010, Mashhad, Iran
 - ✓ **Kamkarhaghighi, M.** "Study of the elements which are used in PCs and their Impact on Environment", Presented in the 2nd congress of Iranian trace elements, 2010, Tehran, Iran
 - ✓ Sarbaziazad, H. Azarderakhsh, R. **Kamkarhaghighi, M.** "Internet II", Accepted to be presented in The First Iranian Student Conference on ICT, 2004, Shiraz, Iran

Research Experience:

- ✓ Principal investigator, research project entitled: "*National plan for revision of laws related to retention of medical records in healthcare centers in Iran*", 2014, Iran University of Medical Sciences
- ✓ Principal investigator, research project entitled: "*Systematic review of Cloud Computing in Iranian Health care*", 2012, Shahid Beheshti University of Medical Sciences
- ✓ Principal investigator, research project entitled: "*A Scientometric Overview of Medical Informatics articles and review its visible accessibility based on Web of Science Database*", 2012, Shahid Beheshti University of Medical Sciences
- ✓ Co-investigator, research project entitled: "*A Scientometric Overview of Medical Informatics articles and review its visible accessibility based on Scopus*", 2012, Shahid Beheshti University of Medical Sciences
- ✓ Co-investigator, research project entitled: "*Compression of CT Scan images with Wavelet Transform*", 2012, Shahid Beheshti University of Medical Sciences
- ✓ Co-investigator, research project entitled: "*A Comparision of visibility and accessibility of Medical Informatics articles based on Web of Science and Scopus Databases in Google search engine*", 2012, Shahid Beheshti University of Medical Sciences

- ✓ Principal investigator, research project entitled: "*To Design and Develop of Medical Education Encyclopedia*", 2010, Tehran University of Medical Sciences
- ✓ Principal investigator, research project entitled: "*The study of the web-based learning education on the knowledge and satisfaction of the cancer patients and their families*", 2009, Iran University of Medical Sciences
- ✓ Principal investigator, educational project entitled: "*Compilation Distance Learning Rules*", 2007, Iran University of Medical Sciences
- ✓ MSc Thesis(2005): "*Evaluation of a PLC-based fault-tolerant system and proposal for its enhancement*", Sharif University of Technology
- ✓ BSc Thesis(2003): "*CRC Generator in Verilog and VHDL*", Islamic Azad University Tehran Central Branch

Experience:

- ✓ Data Scientist at Loom Analytics, 2016-Now
- ✓ IT consultant to the rector of Iran University of Medical Sciences, 2014 - 2017
- ✓ Head of Virtual Learning Unit of Iran University of Medical Sciences, 2010
- ✓ IT manager in Educational Vice Chancellor of Iran University of Medical Sciences, 2007- 2014
- ✓ CEO of "Tarahan Rayaneh Pishroo" Company, 2004-2006, Tehran, Iran
- ✓ Engineering Designer of Microcontroller based Circuits in "Power Supply Products", 2003-2004, Tehran, Iran
- ✓ Academia:
 - ✓ Faculty member, Iran University of Medical Sciences, 2013-2017
 - ✓ Faculty member, Tehran University of Medical Sciences, 2010-2013
 - ✓ Faculty member, Iran University of Medical Sciences, 2006-2010
 - ✓ Instructor, Iran University of Medical Sciences, 2006-2015:
 - Computer Applications in Management, School of Health Care Management
 - Computer and Programming, School of Health Care Management
 - Informatics Systems, School of Health Care Management And Faculty of Public Health
 - Computer Applications in Medical Education, Educational Development Center
 - Computer and New Technologies in Medical Documents, School of Health Care Management
 - Management of Centers and Informatics Networks in Iran, School of Health Care Management

- IT in Nursing, School of Nursing & Midwifery

Affiliation:

- ✓ Member of 7th Electronic Learning Congress in Medical Education, 2015, Tehran, Iran
- ✓ Member of Canadian Internet Registration Authority (CIRA), 2014-Now, Ottawa, Ontario, Canada
- ✓ Member of 2nd National Congress on patient education, 2014, Tehran, Iran
- ✓ Member of 3rd Medical Informatics Seminar Scientific Committee, 2013, Tehran, Iran
- ✓ Member of Information Technology Council in Virtual School, Tehran University of Medical Sciences, 2014-Now, Tehran, Iran
- ✓ Member of E-Learning and Virtualization Policy Council in School of Health Management and Information Sciences, Iran University of Medical Sciences, 2013-Now, Tehran, Iran
- ✓ Editorial Board member of Health Information Technology Journal, 2012-Now, Tehran, Iran
- ✓ Iranian ICT guild organization, 2008-Now, Tehran, Iran
- ✓ Iranian Society for Trace Elements Research, 2007-Now, Tehran, Iran

Auxiliary:

- ✓ Attending workshop on "Using Electronic Learning System" , Tehran University of Medical Sciences, 2013, Tehran, Iran
- ✓ Attending workshop on "Using Electronic Learning System" , Tehran University of Medical Sciences, 2012, Tehran, Iran
- ✓ Attending workshop on "Excel 2007" , Iran University of Medical Sciences, 2010, Tehran, Iran
- ✓ Attending workshop on "Information Mastery" , Shahrekord University of Medical Sciences, 2009, Shahrekord, Iran
- ✓ Attending workshop on "Role of Computer in Medical Education" , Iran University of Medical Sciences Educational Development Center, 2009, Tehran, Iran
- ✓ Attending workshop on "Role of Information Technology in Medical Education" , 10th Congress on Medical Education, 2009, Shiraz, Iran
- ✓ Distance Learning Plenary member, WFME -Iran Joint International congress on: "Implementation of WFME standards in Undergraduate Medical Education" November 2008, Kish Island - Iran
- ✓ Virtual Learning plenary member, 9th National Congress on Medical Education, 2008, Yazd, Iran

Professional Courses:

- ✓ (2016) “Mindsight™”, Online Course, Faculty of Health Sciences, University of Ontario Institute of Technology, Canada
- ✓ (2014) “Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans Course on Research Ethics (TCPS 2: CORE)”, Panel on Research Ethics, Online course, Canada
- ✓ (2011) “EndNote”, Tehran University of Medical Sciences, Tehran, Iran
- ✓ (2010) “Hack & Security”, Asr-e-Shabakeh Institute, Tehran, Iran
- ✓ (2005) "Basics of PLC", Paykar Bonyan Co, Tehran, Iran
- ✓ (2005) "Advanced PLC Programming", Paykar Bonyan Co, Tehran, Iran
- ✓ (2005) "Human Machine Interface", Paykar Bonyan Co, Tehran, Iran
- ✓ (2004) "AutoCAD I", Red Cross IT Center, Tehran, Iran
- ✓ (2004) "AutoCAD II", Red Cross IT Center, Tehran, Iran
- ✓ (2004) "Photoshop", Red Cross IT Center, Tehran, Iran
- ✓ (2004) "ICDL II", Red Cross IT Center, Tehran, Iran
- ✓ (2004) "ICDL I", Red Cross IT Center, Tehran, Iran

Skills:

Python, MATLAB, Java, C, C++, Visual C#, Visual Basic, HTML, PHP, Pascal, Basic, Assembly, Ladder, VHDL, Verilog, R, SPSS, Corel Draw, End Note, Microsoft Windows, Linux, Mac OS X

Languages:

- ✓ Persian (Native)
- ✓ English (Academic IELTS)
- ✓ Français (Débutant)