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## MAHMOOD TARA M.D. PH.D.

### SUMMARY

Dr. Mahmood Tara is a physician and a health informatician, with more than twenty years of professional experience in the domain of computer applications in medicine. Dr. Tara is the faculty member, founder, and the former director of the Department of Medical informatics, Mashhad University of Medical Sciences, and the chairman of the board for medical informatics and health information management programs in Iran. He is currently the general director for statistics and information technology at the Iranian Ministry of Health and Medical Education. He is also currently the international professional consultant to World Health Organization on health information systems.

### EDUCATION

*University of Victoria, Victoria BC, Canada*

**Ph.D. in Health Informatics**

**2007**

Dissertation: "Development and Evaluation of a Knowledge Requirements Engineering Model to Support Design of a Quality Knowledge-intensive eHealth Application"

*Mashhad University of Medical Science, Mashhad, Iran*

**Doctorate in Medicine** (with dissertation)

**1998**

Dissertation: "A Systematic Evaluation of Medical Education in Iran"

### AWARDS

**Selected Recipient of National Award** for Excellence in Education Management (Motahari Award) for Project: "Stepwise Beyond-location Management of Educational Department"

**2013**

**First-place Recipient of University Award** for Excellence in Education Management (Motahari Award)

**2010**

**First-place Recipient of University Award** for Excellence in Education Program Development (Motahari Award)

**2010**

<b>Selected Recipient of University of Victoria PhD Fellowship Award</b> , University of Victoria, Victoria BC, Canada	<b>2006 – 2007</b>
<b>Selected Recipient of University of Victoria PhD Fellowship Award</b> , University of Victoria, Victoria BC, Canada	<b>2005-2006</b>
<b>Selected Recipient of Michel Miller Award</b> for the paper titled “Key Aspects of a Practical Consumer Health Guideline Targeting Bipolar Patients and Their Families”, School of Health Information Science, University of Victoria, Victoria BC, Canada	<b>2005</b>
<b>Selected Recipient of Dr. Julius Schleicher Graduate Award</b> for academic performance, University of Victoria, Victoria BC, Canada	<b>2003</b>
<b>Appreciation Award for the ‘the Best Reported Experience’</b> in the Systematic Optimization in Management for the paper titled Optimizing the Process of the Distribution of Medical Supplies in a Healthcare System, Fourth National Congress of System Optimization, Tehran, Iran	<b>2000</b>
<b>First place Award, the</b> Provincial Competition of Reading Skills, Mashhad, Iran	<b>1994</b>
<b>First place Award (Best Article)</b> , the National Competition for Improving Tourism Industry, Mashhad, Iran	<b>1992</b>
<b>Second place Award</b> , the National Competition of Book-Summarizing Skills, Mashhad, Iran	<b>1991</b>

#### PROFESSIONAL ACTIVITIES (MEMBERSHIP, POSITIONS)

<b>International Professional Consultant</b> , World Health Organization at EMRO, Cairo, Egypt	<b>2017-Now</b>
<b>Director General</b> , the Office for Statistics and Information Technology, Ministry of Health and Medical Education, Tehran, Iran	<b>2016-Now</b>
<b>Chairman</b> . Iranian Board of Health Information Management and Medical Informatics, Ministry of Health	<b>2014-Now</b>
<b>Chief Information Officer</b> . Mashhad University of Medical Sciences	<b>2014-2016</b>
<b>Director</b> . Department of Medical Records and Health Information Technology. School of Paramedical Sciences. Mashhad University of Medical Sciences.	<b>2013-14</b>
<b>Scientific Committee</b> . 6 <sup>th</sup> Conference of eLearning in Biomedical Sciences, Shiraz, Iran	<b>2013</b>
<b>Director</b> . Department of Research and Development in Education. School of Medicine. Mashhad University of medical Sciences	<b>2008-2009</b>
<b>Associate CIO</b> - Department of Statistics and Information Technology- Mashhad University of medical Sciences	<b>2008-2009</b>
<b>Workgroup Member</b> . ISIRI/TC 215/WG9 National Health Informatics Standard Committee. Iranian Standard Organization	<b>2009-Now</b>
<b>Founder and Director</b> . Department of Biomedical Informatics. School of Medicine. Mashhad University of Medical Sciences	<b>2009- 2016</b>
<b>Faculty Member (Assistant Professor)</b> . School of Medicine. Mashhad University of Medical Sciences	<b>2007- Now</b>
<b>Member</b> - the Society for Internet in Medicine	<b>2006-2007</b>
<b>Member</b> - American Medical Informatics Association (AMIA)	<b>2006-2007</b>
<b>Guest Lecturer</b> - Consumer Health Informatics, HINF 470:	<b>2006</b>

Trends in Health Informatics, UVic School of Health Information Science	
<b>Program Committee Member-</b> The 19th IEEE International Symposium on Computer-based Medical System, Salt lake City, Utah, USA. Special Track: Security, Privacy and Confidentiality - Threats and Challenges to Health Systems	<b>2005-2006</b>
<b>Web Site Coordinator/Designer-</b> University of Victoria Official Web Site Design Team, Victoria BC, Canada.	<b>2003-2007</b>
<b>Team Member/Visiting Worker-</b> International group to design Personal Health Record Standards, e-Health Group, National Research Council of Canada, Saint John NB, Canada	<b>2004-2005</b>
<b>Guest Lecturer-</b> Personal Health Records, HINF 415, Patient Care Support System, School of Health Information Science, University of Victoria, Victoria BC, Canada	<b>2004</b>
<b>Editorial Board Member and Co-founder-</b> Journal of Computer in Medicine, Informatics Center, Mashhad University of Medical Sciences, Mashhad, Iran	<b>2000-2002</b>
<b>Technical Associate Manager-</b> Computer Center, Mashhad University of Medical Sciences, Mashhad, Iran	<b>1999-2001</b>
<b>President's Representative-</b> Hospital Information System 7 (HIS-7) project, Imam Reza Hospital, Mashhad University of Medical Sciences, Mashhad, Iran	<b>1999-2000</b>
<b>Manager and Clinician-</b> Badranloo and Raaz Healthcare Centers, Bojnord, Iran	<b>1998-1999</b>
<b>Head and Founder-</b> Computer Center, School of Medicine, Mashhad University of Medical Sciences, Mashhad, Iran	<b>1993-1994</b>

#### PAPERS/ARTICLES/DISSERTATIONS/BOOKS

[Journal Paper] B Hoseini, N Bagheri, B Kiani, A Azizi, H Tabesh, M Tara. Access to dialysis services: A systematic mapping review based on geographical information systems. Geospatial health 13 (1)	<b>2018</b>
[Journal Paper] AK Ghalibaf, E Nazari, M Gholian-Aval, H Tabesh, M Tara. Comprehensive overview of computer-based health information tailoring: a scoping review protocol. BMJ open 7 (12), e019215	<b>2017</b>
[Journal Paper] Deldar K, Tara F, Bahaadinbeigy K, Khajedaluee M, Tara M. A Data Model for Teleconsultation in Managing High-Risk Pregnancies: Design and Preliminary Evaluation. JMIR Med Inform. 2017	<b>2017</b>
[Journal Paper] M Tara, K Etminani. Quantitative Evaluation of Medical Record Documentation in Imam Reza Hospital, Mashhad, Iran. Medical Technologies Journal 1 (4), 98-99	<b>2017</b>
[Journal Paper] B Hoseini, M Tara, B Kiani, A Azizi. Towards developing an integrated index of access to dialysis facilities: A systematic review. Medical Technologies Journal 1 (4), 93-93	<b>2017</b>
[Journal Paper] AK Ghalibaf, ZM Khorasani, MG Aval, M Tara. Aspects of User Profiling in Computer-based Health Information Tailoring Systems: A Narrative Review. Medical Technologies Journal 1 (4), 105-106	<b>2017</b>
[Journal Paper] B Kiani, N Bagheri, A Tara, B Hoseini, H Tabesh, M Tara. Revealed access to haemodialysis facilities in northeastern Iran:	<b>2017</b>

- Factors that matter in rural and urban areas. *Geospatial health* 12 (2)
- [Journal Paper] B. Kiani, N. Bagheri, A. Tara, B. Hoseini, M. Tara **2017**
- [Journal Paper] Hemodialysis services in the northeastern region of Iran. *Journal of Geospatial Health*. 2017
- [Conference Full Paper] A. Kamel Ghalibaf, M. Tara. A Personalized Adviser-Interpreter System for Monitoring Diabetic Patients' Weight Loss. *MedInfo 2017*, Hangzhou, China **2017**
- [Journal Paper] A Kamel Ghalibaf, Z Mazloun Khorasani, M. Gholian Aval, H. Tabesh, M Tara. Design, Implementation and Evaluation of Self-describing Diabetes Medical Records. *JMIR Medical Informatics*. 2017 **2017**
- [PhD Dissertation under my Supervision] Deldar K. Development and Evaluation of a Teleconsultation Model to Manage the High-Risk Pregnancies. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences. **2017**
- [MSc Dissertation under my Supervision] Hosseini Benyamin. A systematic review of the literature for seeking required variables to design an integrated index of access to dialysis facilities. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences. **2017**
- [MSc Dissertation under my Supervision] Houshafza S. Design and Evaluation of a Screening Tests Visualization Model for Consumers. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences. **2017**
- [Journal Paper] K Deldar, K Bahaadinbeigy, M Tara, Teleconsultation and Clinical Decision Making: a Systematic Review. *Acta Informatica Medica*. 2016 **2016**
- [Journal Paper] Experiences of Obstetricians and Gynecologists in Teleconsultation with Medical Residents: A Qualitative Study. *Global Journal of Health Science*, 2016 **2016**
- [Journal Paper] AA Azizi, R Aboutorabi, Z. Mazloun-Khorasani, B Hoseini, M. Afzalaghayee, H. Tabesh, M Tara. Evaluating the Effect of Web-Based Iranian Diabetic Personal Health Record App on Self-Care Status and Clinical Indicators: Randomized Controlled Trial. *JMIR Medical Informatics*. 2016 **2016**
- [Journal Paper] AA Azizi, R Aboutorabi, Z. Mazloun-Khorasani, B Hoseini, Mahmood Tara. Diabetic Personal Health Record: a systematic review of literature seeking foundational information elements. *Iranian Journal of Public Health*. 2016 **2016**
- [Journal Paper] AA Azizi, R Aboutorabi, Z Mazloun-Khorasani, M Afzal-Aghaea, M Tara. Development, Validation, and Evaluation of Web-Based Iranian Diabetic Personal Health Record: Rationale for and Protocol of a Randomized Controlled Trial. *JMIR Research Protocol*. 2016 **2016**
- [MSc Dissertation under my Supervision] MohammadEbrahimi S. Development and Evaluation of a Tool to Assess and Accredit Persian Health Websites. Supervised by Tara M. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences. **2016**
- [Journal Paper] M. Kamali, M. Tara, M. Mouhebati, AA Azizi, B. Kiani , MR Hasibian. Designing and Evaluation of the Local Cardiovascular **2015**

Terms Coding System Based on Concept Mapping. Journal of Health and Biomedical Informatics, 2015

[MSc Dissertation under my Supervision] Samimi T. Evaluating the Information Adequacy of the Clinical Morning Reports in the Departments of Gynecology and Obstetrics and its Improvement by a Structured Reporting Model. Supervised by Tara M. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences. **2016**

[Journal Paper] M Jangi, AA Azizi, M Kamali Yousef Abad, SM Tara. Systematic Design of the Minimum Data Set Storage: An Essential Need to Create Purposed for Archiving. Journal of Health and Biomedical Informatics, 2015 **2015**

[MSc Dissertation under my Supervision] Kamali M. Designing and Evaluation of the Local Cardiovascular Terms Coding System Based on Concept Mapping. Supervised by Hassibian MR. and Tara M. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences. **2015**

[MSc Dissertation under my Supervision] Babaei M. Design and Evaluation of a Diabetes Care Follow-up Card. Supervised by Tara M. and Mazloom Z. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences. **2015**

[Journal Paper] Kamali M, Tara M, Mouhebaty M, Azizi AA, Kiani B, Hasibian MR. Designing and Evaluation of the Local Cardiovascular Terms Coding System Based on Concept Mapping. Journal of Health and Bioinformatics. 2015 **2015**

[Journal Paper] Karim H. Tara M. Etminani K. The Factors Affecting Hospital Length of Stay: A Systematic Review. Journal of Health and Bioinformatics. 2015 **2015**

[Journal Paper] Karim H. Tara M. Etminani K. The Factors Related to the Length of Stay in Imam Reza and Ghaem University Hospitals. Journal of Health Information Management. 2015 **2015**

[MSc Dissertation under my Supervision] Karim H. The Factors Affecting Hospital Length of Stay: A Systematic Review. Supervised by Etminani K. and Tara M. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences. **2015**

[Journal Paper] M Kamali Yousef Abad, SM Tara, M Mouhebaty, A Azizi, B Kiani. Designing and Evaluation of the Local Cardiovascular Terms Coding System Based on Concept Mapping. Journal of Health and Biomedical Informatics 1 (2), 83-94 **2014**

[Journal Paper] A Azizi, M Hasibian, M Tara. Systematic Review of Factors Affecting Acceptance of Electronic Health Records. Journal of Medical Council of Islamic Republic of Iran 31 (4), 307-316 **2014**

[Journal Paper] Jangi M, Kamali M, Azizi AA, Tara M. Systematic Design of the Minimum Data Set Storage: An Essential Need to Create Goal-oriented Medical Archive System. Journal of Health and Bioinformatics. **2014**

[Book Chapter – Premium Reference] M.Tara. Aspects of Information Tailoring in the 21<sup>st</sup> Century. Encyclopedia of Information Science and Technologies. IGI International, 2014. **2014**

[MSc Dissertation under my Supervision] Jangi M. Designing and **2014**

Evaluation of a Multi-layer Electronic Archive Model with Defined Access to Improve Security and Confidentiality of Medical Records. Supervised by Tara M. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences.

[MSc Dissertation under my Supervision] Dorri S. Design and Evaluation of a Multi-strainer Framework to Build a Local Knowledge Contents Bank for Kidney Transplant Patients. Supervised by Tara M. Department of Medical Informatics. School of Medicine. Mashhad University of Medical Sciences. **2014**

[Journal Paper] AA Azizi. MR Hasibian, M Tara. Systematic Review of the Factors Influencing the Implementation and Acceptance of Electronic Health Records. The First International Conference of Electronic Health. Tehran, Iran. **2012**

[Book Chapter – Premium Reference] M. Tara. Semantic Web Architecture to provide eHealth Content and Services. Ubiquitous Health and Medical Informatics: Advancements in Web 2.0, Health 2.0 and Medicine 2.0. IGI International, 2010. **2010**

[Article] M. Tara. Teen health web sites: Which one is the best for my teenager? Center for Youth and Society, University of Victoria, Victoria BC, Canada. **2006**

[Article] M. Tara. Key Aspects of a Practical Consumer Health Guideline Targeting Bipolar Patients and Their Families. Michel Miller Award Competition. School of Health Information Science, Victoria, BC, Canada. **2005**

[Journal Paper] M. Tara, A. Kushniruk. Evidence-based Health Informatics: Thoughts and Challenges of Learning from the Past to Propose a Practical Personal Health Record Model, Submitted to Journal of American Medical Informatics Association (To be Revised). **2005**

[Book] M. Tara. A Guide to the Faculty of Medicine Mashhad, Publication Institute of Ferdowsi University, Mashhad, Iran. **1992**

## RESEARCH AREAS OF INTEREST

- Requirements Engineering and Conceptual Modeling of Medical or eHealth Applications
- Medical Knowledge/Meta-knowledge Engineering, including decision support design
- Building Useful and Usable eHealth Interfaces (as part of Usability Engineering)
- Health Information Provision through Semantic Web Services
- Data Visualization and Analytics

## PROFESSIONAL SKILLS

- Project Management, using Microsoft Project
- Inf. System Design and Modeling, using Visio, theBrain, and UML
- Usability Design and Evaluation, using Card Sorting, Ethnography,

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and User tracking approaches based on software such as Murray and Atlas Ti

- Data Analytics and Visualization, using R + Microsoft Power BI
- Office & Visio, in advanced level

#### PERSONAL SKILLS

- IT Leadership, with more than ten years' experience
- Team Player, with a rich history of outstanding timely and proactive team play
- Internal/External Communicator and Negotiator
- Interdisciplinary Liaison between the Medical/clinical and the IT team
- Innovative thinker, with years of experience on advising and training grad students and companies on creative and innovative thinking
- Eagle-Eye thinker / Problem Solver for deep and quick system analysis and solution assignment

#### TEACHING HISTORY

- Human Anatomy, BSc Course (1998-2000)
- Human Biology, BSc Course (1998-2000)
- Genetic and Inherence, BSc Course (2002)
- Health Informatics, PhD Course (2009-Now)
- Computer Applications in Medicine, Undergrad Course (2008-2014)
- Health Information Systems, PhD Course (2010-2015)
- Taxonomy and Ontology, PhD Course (2009-Now)
- Health Information Management, Graduate Course (2011-2012)
- Research Seminar, MSc/PhD Course (2009-2014)
- Information Technology Management in Crisis, Undergrad Course (2013)
- Design and Evaluation of Health Information Systems, MSc and PhD Course (2012-2015)
- IT and Strategic Management, DBA Course (2013-2014)
- Ad hoc Courses:
  - Data Science Skills
  - Presentation Skills
  - Reference Management Skills
  - Hospital Information Management Skills

## HOBBIES

Bicycling, Swimming, Photography, Camping, Travelling

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