**Mustafa Ghaderzadeh**

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**Education**

**Ph.D. in Medical Informatics,** Shahid Beheshti University of Medical Sciences (2016-2022)

**Thesis Topic:** Detection and Classification of Acute lymphoblastic leukemia in Blood Smear Microscopic Images Using Deep Convolutional Neural Network

**GPA:3.9 Thesis Grade:** 19.89 out of 20

**M.Sc. in Medical Informatics**, Tehran University of Medical Sciences (2009-2011)

**Thesis Topic**: Application of Neural Network in Classification of Prostate Neoplasia

**GPA:**3.8 **Thesis Grade:** 19.5 out of 20

**B.Sc. in Applied Mathematics)Application of Mathematics Algorithms and Methods in Analysis Data)** (2003-2008)

**Research Experiences (Publication)**

1.**Ghaderzadeh M,** Rebecca F, Standring A. Comparing performance of different neural networks for early detection of cancer from benign hyperplasia of prostate. Applied Medical Informatics. 2013;33(3):45-54.

2. **Ghaderzadeh M,** Sadoughi F, Ketabat A. Designing a clinical decision support system based on artificial neural network for early detection of prostate cancer and differentiation from benign prostatic hyperplasia. 2012.  [*Health information management*](https://www.sid.ir/en/Journal/JournalList.aspx?ID=8003)[*november2012 ,  volume 9 , number 4*](https://www.sid.ir/en/Journal/JournalListPaper.aspx?ID=185924)*.*

3. Sadoughi F, **Ghaderzadeh M,** Solimany M, Fein R. An intelligent system based on back propagation neural network and particle swarm optimization for detection of prostate cancer from benign hyperplasia of prostate. Journal of Health and Medical Informatics. 2014;5(3):1-5.

4. Sadoughi F, **Ghaderzadeh M**. A hybrid particle swarm and neural network approach for detection of prostate cancer from benign hyperplasia of prostate. Studies in health technology and informatics. 2014;205:481-5.

5. **M Ghaderzadeh**, F Sadoughi, A Ketabat. [A computer-aided detection system for automatic classification of prostate cancer from benign hyperplasia of prostate](javascript:void(0)). Iranian Journal of medical informatics 2(2) 1-5.

6. Sadoughi F, **Ghaderzadeh M,** Rebecca F, Standring A. Comparison of Back propagation neural network and Back propagation neural network Based Particle Swarm intelligence in Diagnostic Breast Cancer. Applied Medical Informatics. 2014;34(1):22-30.

7. **Ghaderzadeh M**, Sadoughi F, Ketabat A. A computer-aided detection system for automatic classification of prostate cancer from benign hyperplasia of prostate. Iranian Journal of Medical Informatics. 2013;2(2):1-5.

8. **Ghaderzadeh M** et al Automated Detection Model to Classify B-lymphoblast cell from normal B-lymphoid precursors in Blood Smear Microscopic Images Based on Majority Voting Technique. *Scientific Programming*, *2022*, 4801671. https://doi.org/10.1155/2022/4801671

9. **Ghaderzadeh M**, Asadi F. Deep Learning in Detection and Diagnosis Covid19 using Radiology Images:A Systematic Review. *Journal of Healthcare Engineering*, *2021*, 6677314. https://doi.org/10.1155/2021/6677314

10. **Ghaderzadeh M.** et al. “[Deep Convolutional Neural Network–Based Computer-Aided Detection System for COVID-19 Using Multiple Lung Scans: Design and Implementation Study](javascript:void(0))” Journal Of Medical Internet Research, vol. 23 | issue. 4 | e27468 | p. 1

11. **Ghaderzadeh M et al “**Machine Learning in Detection and Classification of Leukemia Using Smear Blood Images: A Systematic Review” *Scientific Programming*, *2021*, 9933481. https://doi.org/10.1155/2021/9933481.

12. Ghaderzadeh M et al “Artificial Intelligence Application in Blood Diseases analysis” (Under review)

13. Ghaderzadeh M et al ,”Management of Covid-19 Detection Using Artificial Intelligence in 2020 Pandemic” *2021 5th International Conference on Medical and Health Informatics, 32–38.*

14. **Ghaderzadeh M,** Aria M, Hosseini A, Asadi F, Bashash D, Abolghasemi H. A fast and efficient CNN model for B‐ALL diagnosis and its subtypes classification using peripheral blood smear images. International Journal of Intelligent System. 2021;1‐21. doi:10.1002/int.22753.

15. Garavand A, Salehnasab C, Behmanesh A, Aslani N, Zadeh AH, **Ghaderzadeh M**. Efficient Model for Coronary Artery Disease Diagnosis: A Comparative Study of Several Machine Learning Algorithms. *J Healthc Eng*. 2022;2022:5359540. doi:10.1155/2022/5359540.

16. Ghaderzadeh M et al, A lightweight Deep-CNN based Mobile application in Screening of acute lymphoblastic of leukemia(Accepted)

17. **Ghaderzadeh M et al ,** Designing an Action Plan Model for Implementing DRGs in Iran. Under Review).

18. **Ghaderzadeh M et al ,** Machine and Deep Learning Application in Coronary Artery Disease(Cardio Vascular Diseases): A comprehensive review of the state of the art (Under Review).

Oral Presentation in International Congress( National congress was ignored)

**Ghaderzadeh M.** [Clinical decision support system for early detection of prostate cancer from benign hyperplasia of prostate.](javascript:void(0)) **14th World Congress on Medical and Health Informatics(**Copenhagen**-**Denmark**).**

**Ghaderzadeh M.** An intelligent system based on back propagation neural network and particle swarm optimization for detection of prostate cancer from benign hyperplasia of prostate. **presentation at 25th European Medical informatics Conference- MIE2014(**Istanbul-Turkey**)**

**Ghaderzadeh M, et al ”** Management of Covid-19 Detection Using Artificial Intelligence in 2020 Pandemic**” 2021 5th International Conference on Medical and Health Informatics (**Kyoto, Japan**).**

**Teaching Experience**

Nursing Informatics (2014-2015)(Boukan Nursing school)

Epidemiology (2015-2016)( Mohabad Azad University)

Health Care Services (2015-2016)(Islamic Azad University of Mohabad )

Assistant professor at the Smart University of Medical Science as a lecturer(2022- now)

**Professional Activity**

Chief information officer at Hospital (2015-2018)(Hamadan Province).

Local EMR accreditation Header( Hospital)

Health Information Manager at Hospital (2015-2017)

Hospital Statistical Manager (2015-2017)

Chief member of medical records coding technicians (2015-2018)

Health Information System Manager (2016)

**Awards and Honors**

**Master Entrance Exam:** Achieved **3** rank in the entrance exam of M.Sc. in Iran, 2009

**Ph.D. Entrance Exam:** Achieved **1** rank in the entrance exam for PhD. in Iran, 2015.

**Rank in Class:** 1st place among Medical Informatics students in M.Sc. and Ph.D. courses.

**Memberships**

Research student Committee Member of Shahid Beheshti University

Hospital Information Services Member for 4 years.

**Major and Interesting**

Machine Learning and Deep Learning

Computer Vision

Health Data Science

Health Smart System

Clinical Decision Support System

Signal and Image Processing

Software development

**Software Skill**

Mobile Application Developer

Expert in Python, C++, Matlab,

Highly experienced with Weka, Sql server 2019.

Familiar with Kotlin , Android studio