CV (Curriculum Vitae)

Name: Amir	
Family: Khorasani Dastjerdi	
Date of birth: 1990/09/01	
Title: B. Sc., M. Sc., Ph. D.	
Appointment: Assistant Professor	
Institute: Isfahan University of medical Sciences	
School: School of Advanced Technologies in Medicine	
Department: Department of Bioimaging	
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Education (Most recent Date ,Degree/ Course, Department / University, Dissertation title)	ISFAHAN UNIVERSITY OF MEDICAL SCIENCES, ISFAHAN, IRAN Degree: Ph.D. in medical physics Graduation Month & Year: September 2022 Thesis topic: Application of diffusion magnetic resonance imaging and T2 and T2* mapping to determine the Glioma grading using neural networks Advisor: Dr. Mohamad Bagher Tavakoli TARBIAT MODARES UNIVERSITY, TEHRAN, IRAN. Degree: M. Sc. In medical physics Graduation Month & Year: June 2016 Thesis topic: Analysis of tissue conductivity at high frequency and low electric field intensity in irreversible electroporation and its impact on the distribution of the electric field using finite element simulation Advisor: Dr. S.M.P Firoozabadi YAZD UNIVERSITY OF MEDICAL SCIENCES, YAZD, IRAN. Degree: B. Sc. In radiology

	Graduation Month & Year: July 2013
Relevant Work Experience (Date, Title, University / Organization, Description)	**ISFAHAN UNIVERSITY OF MEDICAL SCIENCES** **Teacher assistant, professor assistant, and researcher, 2018-2023.**
Professional Memberships & Qualification (Date, Title, association)	

Extra Curricular Activities/ Interest (personal url)	
Research Experience (Date, Title, University / Organization, Description)	1. <mark>Khorasani A</mark>, Dadashi serej N, Jalilian M, Shayganfar A, Tavakoli MB. Performance comparison of different medical image fusion algorithms for clinical glioma grade classification with advanced magnetic resonance imaging (MRI). Scientific Reports. 2023 Oct 17;13(1):17646. 2. <mark>Khorasani A</mark>, Tavakoli MB. Multiparametric study for glioma grading with FLAIR, ADC map, eADC map, T1 map, and SWI images. Magnetic Resonance Imaging. 2023 Feb 1;96:93-101. 3. Tavakoli MB, <mark>Khorasani A</mark>, Jalilian M. Improvement grading brain glioma using T2 relaxation times and susceptibility-weighted images in MRI. Informatics in Medicine Unlocked. 2023 Jan 1;37:101201. 4. <mark>Khorasani A</mark>, Shahbazi-Gahrouei D, Safari A. Recent metal nanotheranostics for cancer diagnosis and therapy: a review. Diagnostics. 2023 Feb 22;13(5):833. 5. Esmailzadeh A, Abedi I, <mark>Khorasani A</mark>. Investigating variation of dose gradient index by different grid sizes in intensity-modulated radiation therapy of optic nerve sheath meningioma. Applied Radiation and Isotopes. 2023 Mar 1;193:110657. 6. <mark>Khorasani A</mark>. Automated irreversible electroporated region prediction using deep neural network, a preliminary study for treatment planning. Electromagnetic Biology and Medicine. 2022 Oct 2;41(4):379-88. 7. <mark>Khorasani A</mark>, Kafieh R, Saboori M, Tavakoli MB. Glioma segmentation with DWI weighted images, conventional anatomical images, and post-contrast enhancement magnetic resonance imaging images by U-Net. Physical and Engineering Sciences in Medicine. 2022 Sep;45(3):925-34. 8. <mark>Khorasani A</mark>, Tavakoli MB, Saboori M. Using of Laplacian Re-decomposition image fusion algorithm for glioma grading with SWI, ADC, and FLAIR images. Polish Journal of Medical Physics and Engineering. 2021 Dec;27(4):261-9.

9. Khorasani A. Finite element analysis of cell killing probability in electroporation with single bipolar electrode. Frontiers in Biomedical Technologies. 2021 Mar 30;8(1):20-5.

10. Khorasani A. Clinical usage of tissue electrical conductivity during the electroporation: An essential and useful factor. Frontiers in Biomedical Technologies. 2021 Mar 30;8(1):61-9.

11. Khorasani A, Tavakoli MB, Saboori M, Jalilian M. Preliminary study of multiple b-value diffusion-weighted images and T1 post enhancement magnetic resonance imaging images fusion with Laplacian Re-decomposition (LRD) medical fusion algorithm for glioma grading. European Journal of Radiology Open. 2021 Jan 1;8:100378.

12. Khorasani A, Chegini A, Mirzaei A. New Insight into Laboratory Tests and Imaging Modalities for Fast and Accurate Diagnosis of COVID-19: Alternative Suggestions for Routine RT-PCR and CT—A Literature Review. Canadian Respiratory Journal. 2020 Nov 28;2020.

13. Khorasani A. A numerical study on the effect of conductivity change in cell kill distribution in irreversible electroporation. Polish Journal of Medical Physics and Engineering. 2020 Jun 25;26(2):69-76.

14. Khorasani A. The effect of conductivity changes on temperature rise during irreversible electroporation. Frontiers in Biomedical Technologies. 2020;7(3):178-85.

15. Khorasani A, Firoozabadi SM, Shankayi Z. Conductivity change with needle electrode during high frequency irreversible electroporation: a finite element study. Polish Journal of Medical Physics and Engineering. 2019 Dec;25(4):237-42.

16. Shahbazi-Gahrouei D, Khaniabadi PM, Shahbazi-Gahrouei S, Khorasani A, Mahmoudi F. A literature review on multimodality molecular imaging nanoprobes for cancer detection. Polish Journal of Medical Physics and Engineering. 2019 Jun;25(2):57-68.

17. Khorasani A, Firoozabadi SM, Shankayi Z. Conductivity Changes of Liver Tissue during Irreversible Electroporation and Calculation of the Electric Field Distribution. Modares Journal of Biotechnology. 2018 Sep 10;9(2):227-32.

	18. <mark>Khorasani A</mark>, Firoozabadi SM, Shankayi Z. Finite element analysis of tissue conductivity during high-frequency and low-voltage irreversible electroporation. Iranian Journal of Medical Physics. 2017 Sep 1;14(3):135-40. 19. <mark>Khorasani A</mark>. Thermal damage map prediction during irreversible electroporation with U-Net. Electromagnetic Biology and Medicine. 2023 Dec 31:1-1. 20. Aminolroayaei F, Shahbazi-Gahrouei S, <mark>Khorasani A</mark>, Shahbazi-Gahrouei D. A Review of Imaging Methods and Recent Nanoparticles for Breast Cancer Diagnosis. Information. 2023 Dec 22;15(1):10.
Grants & Awards (Date, Name, Significant info, Amount)	
Research Interests (Research area)	Medical imaging Machine learning Deep-learning Radiomics feature analysis Tumor segmentation Tumor classification Medical image fusion Image processing Magnetic resonance imaging protocols Finite element analysis Irreversible electroporation Treatment planning for irreversible electroporation
Presentations & Poster Sessions (Bibliographic format)	1. <mark>Khorasani A</mark>. Automated Irreversible electroporated region prediction in different electrode type with deep learning approach. 4th World Congress on Electroporation and Pulsed Electric Fields in Biology, Medicine and Food & Environmental Technologies. 2022. 2. Mesbahi, A., <mark>Khorasani, A</mark>., Mahmoudi, F., Aminolroayaei, F., Rasouli, N. The Role of radiobiological parameters on Tumor control probability (TCP) in prostate cancer. Iranian Journal of Medical Physics, 2018; 15(Special Issue-12th. Iranian Congress of Medical Physics): 253-253. doi: 10.22038/ijmp.2018.12889.

Patents (Date, Item, Number)	
Teaching Experience	

Teaching Interests:

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Contact settings: