

CURRICULUM VITAE

PERSONAL INFORMATION



- Name: Nahid Abolpour
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EDUCATION

- PhD, Medical Engineering/Bioelectric (admitted based on brilliant talents program), (17.8), Shiraz university, Shiraz, Iran
 - PhD dissertation title: Modeling of Visual Cortex Layers Considering Neuronal Interaction, under supervision of Dr. Reza Boustani and Dr. Mohammad Ali Masnadi Shirazi, 2021.
- M.Sc., Medical Engineering/Bioelectric (top rank, 19.18), Shiraz University of Medical Sciences, Shiraz, Iran
 - MSc: thesis title: The Process and Segmentation of the Heart Sound Signals into Two Phases, Systole and Diastole, under the

supervision of Dr. Ali Tavakoli, Dr. Kamran Hassani, and Dr. Javad Kojouri, 2012.

- B.Sc., Medical Engineering/Bioelectric, (14.63), Isfahan University, Isfahan, Iran
 - B. Sc. Project title: The Design and Construction of Child Tracking System, under the supervision of Dr. Alireza Karimian, 2009.

TEACHING EXPERIENCE

- **Lecturer**

- Shiraz University, Shiraz, Iran, 2013- up to now
- Islamic Azad University, Kazerun Branch, Iran, 2010-2013
- University of Applied Science and Technology (UAST), Kavar Branch, Iran, 2010-2013
- Shiraz University of Medical Sciences, Shiraz, Iran, 2010-2012
- Fazel Higher Education Institute, Shiraz, Iran, 2010-2011

WORK EXPERIENCE

- **Carrier Position**

- Commission Member, A member of the technical commission for the development of national standards (Aseptic processing of health care products), 2016
- Technical Engineer, Raikit Printed Circuit Company (designing and manufacturing printed circuits), cooperating with Shiraz Electronic Industries organization, 2009-2013

- **Administrative Capabilities/Professional Service**

- Providing consultation and advice on manufacturing medical equipment and guiding investors to establish early-yielding units,
- Preparing initial executive plans for medical equipment manufacture,
- Preparing detailed plans related to the road maps and establishing medical equipment hub in the province,
- Inviting economic activists in the field of medical devices from Iran and foreign countries to invest on the production of medical equipment aiming at economic growth of this industry in the province and in the country,
- Organizing professional conferences to attract investors in the field of medical devices,
- Presenting economic justification plans for the establishment of medical equipment factories,
- Organizing professional tours to attract domestic and foreign investors,
- Submitting profitable and innovative project plans concerning medical devices,
- Providing market analysis and assessment plans in the field of medical equipment,
- Giving guidance and consultation with respect to procurement and supply of medical, dental and laboratory devices,
- Providing consultation on designing the construction of factories concerning medical and dental laboratory equipment,
- Giving consultation on designing and establishing specialized medical device cleanrooms,
- Designing professional exhibitions and conferences with regard to the technical issues and medical equipment engineering,

- Organizing specialized exhibitions and conferences concerning technical affairs and medical equipment engineering

PULICATIONS

Journal Papers

J1. *Epilepsy classification using artificial intelligence: a web-based application (ISI), Epilepsia Open* 2023 Aug 11. doi: 10.1002/epi4.12800.

J2. *State feedback method to control chaotic neural network based on the dynamic phase space constraint (ISI), ISTE Journal*, 2020

J3. *A Choatic Multilayer LIF Scheme to Model the Primary Visual Cortex (ISI), Biomedical Engineering*, 2020

J4. *Detection and Identification of S1 and S2 Heart Sounds Using Wavelet decomposition Method (ISI), International Journal of Biomathematics*, 2015

Conference Papers

C1. *Machine learning applications to differentiate focal epilepsy from generalized epilepsy, 35th International Epilepsy Congress, Irland,2023*

C2. *Applications of Intelligent Computer Diagnosis Systems in Different Majors of Medicine, The 1th International Congress on Artificial Intelligence in Medical Sciences,kish.2023.*

C3. *Output Feedback Stabilization of Image Guidance of Steering Flexible Bevel-Tip Needles, The 1th International Congress on Artificial Intelligence in Medical Sciences,kish.2023.*

C4. *Designing target tracking system in laparoscopic surgery using advanced estimation algorithm, The 16th Iranian National Conference on Electric Engineering, Kazerun, , 2013*

C5. *Auto-structuring fuzzy neural system for heart disease diagnosis*, The 13th Iranian National Conference on Fuzzy Systems, Ghazvin, 2013

C6. *Using a new intelligent confirmation system of calibration intervals for medical device*, International Conference on Physics and Medical Engineering, Shiraz University of Medical Sciences, 2010

C7. *Fuzzy logic in medicine to determine the dose drug*, The 12th Iranian National Conference on Fuzzy Systems, Babolsar, 2002

APPLICATION PROJECT

- Education: www.webneuroexam.com
- Research: www.epiclass.ir/f-ige
- Treatment: www.getprime-sums.com

UNDERGOING RESEARCHES

- Bone age project
- Intelligentization of the CIS
- system Creating a database in the PACS system of the university
- A reliable decision support system for abdominal trauma triage
- Designing and implementing a smart decision support system for predicting and suggesting the best time to separate the patient from the ventilator
- The joint research project of the Vice-Chancellor of Medical and Health University in the field of population youth Screening
- Intelligent differentiation of cerebral hemorrhage types based on CT images
- Intelligent diagnosis of achalasia disease using esophageal sound analysis method (data acquisition stage)

SPEECH IN CONGRESS

- The 5th shiraz international congress on mobile health
- The 15th International Congress of the Scientific Association of Emergency Medicine of Iran
- The 1th International Congress on Artificial Intelligence in Medical Sciences, kish
- Seminar on the use of artificial intelligence in dentistry, Faculty of Dentistry, Shiraz University of Medical Sciences

HONORS

- The first rank of Shiraz University of Medical Sciences in the master's course and a member of the brilliant talent office of the university
- Acceptance without exam in the PhD
- Winner of the youth award of the province's population in the elite axis

CERTIFICATES

- Manufacturer Technical Supervisor from Medical Device Directorate of the Ministry of Health, 2014
- Standard and Quality Control of Medical Equipment, 2013
- Calibration of Medical Equipment from Medical Device Directorate of the Ministry of Health, 2013

CONTACT INFORMATION OF REFERENCES

- Ali A. Asadi-Pooya, M.D. Professor of Epileptology, Director, Shiraz Epilepsy Center and Epilepsy Surgery Program, Department of Neurology Shiraz University of Medical Sciences, Shiraz, Iran
Adjunct Research Associate Professor, Department of Neurology, Thomas Jefferson University, Philadelphia, PA, USA, Email:
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- Zohdeh Azimifar, Associate Professor at CSE & IT, Biomedical Engineering Group, Shiraz University, Shiraz, Iran. Email:
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- MohammadReza Yazdchi, Associate Professor of Biomedical Engineering at the Department of Biomedical Informatics, Esfahan University. Email: yazdchi@eng.ui.ac.ir
- Reza Boostani, Profesor Professor at CSE & IT, Biomedical Engineering Group, Shiraz University, Shiraz, Iran. Email:
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