	Phone: 983137923861; Email: kermani@med.mui.ac.ir saeedkermanimui@gmail.com
	Google scholar
	Profile
	ISID SCOPUS
	Research gate ORCID
Dr Saeed Kermani	

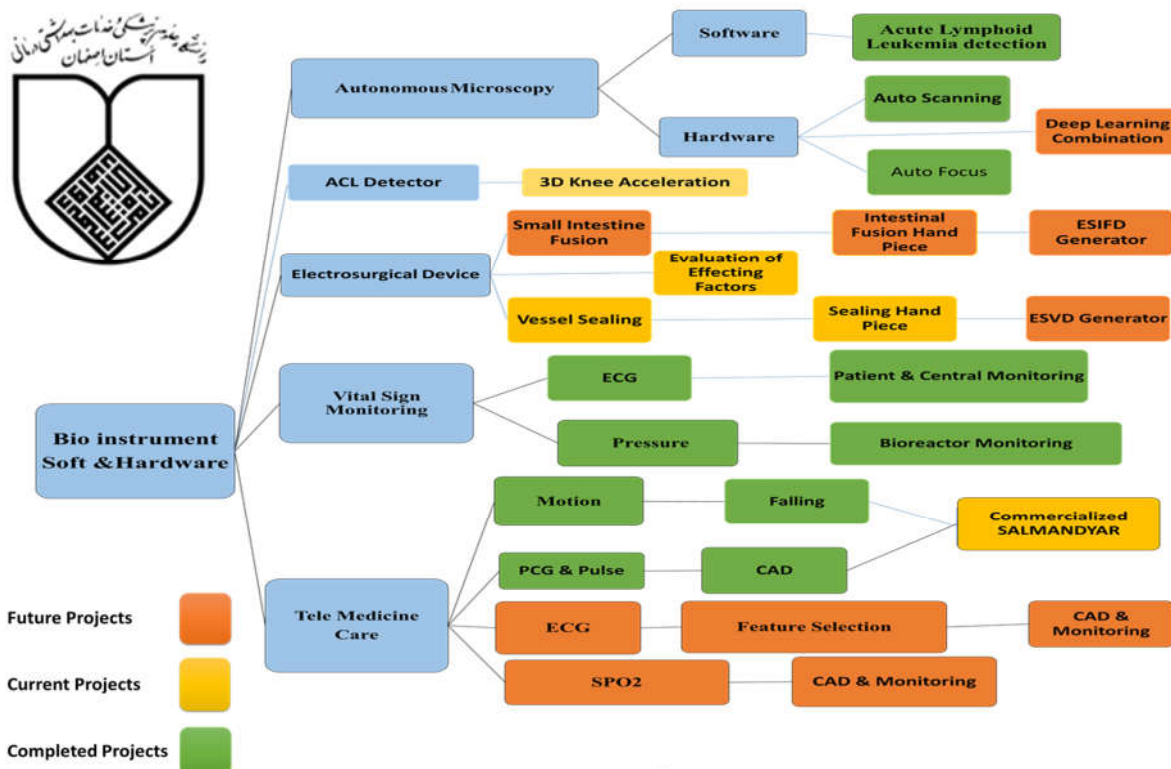
Professor of Biomedical Engineering

Department of Bioelectrics and Biomedical Engineering, School of Advanced Medical Technology, Isfahan University of Medical Sciences

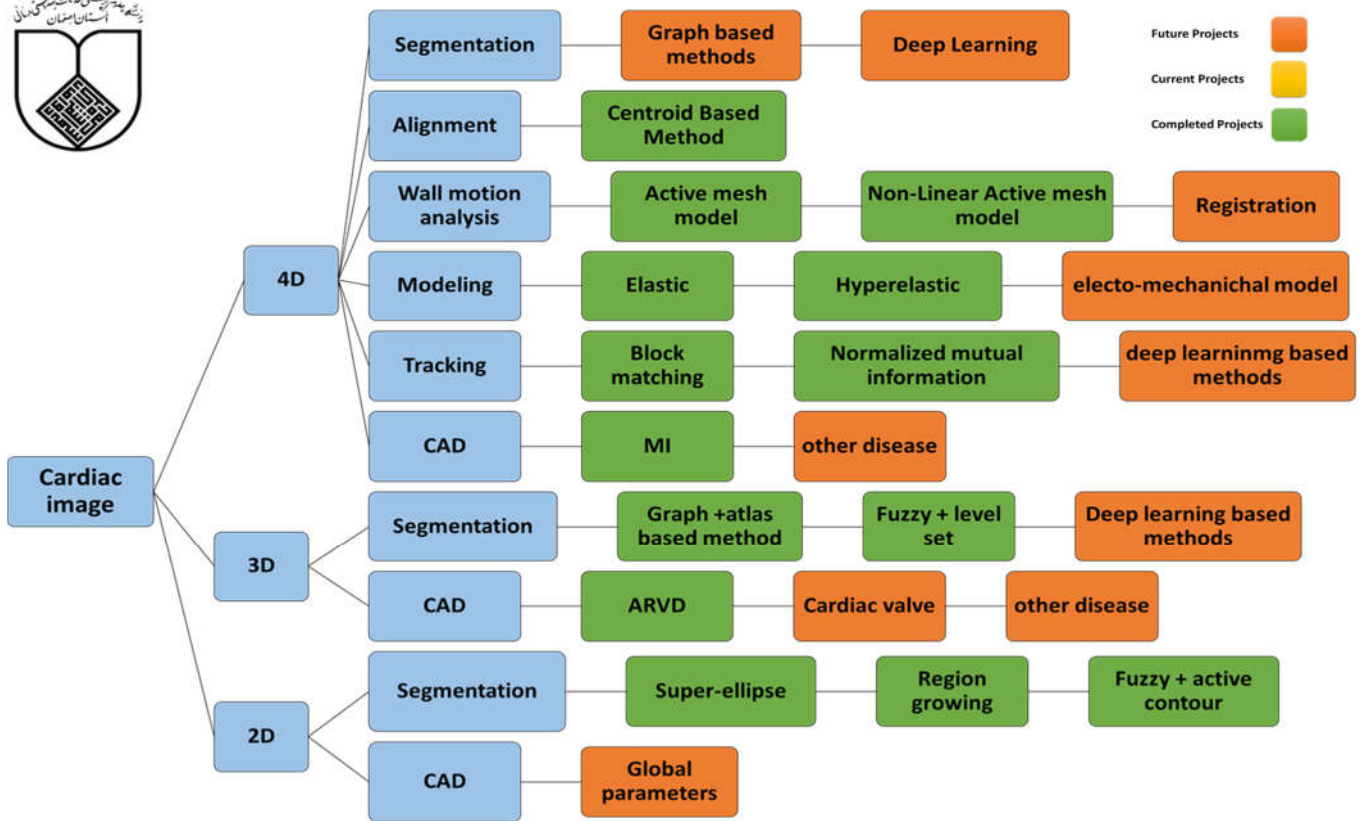
Saeed Kermani obtained his BS from the Department of Electrical Engineering of Isfahan University of Technology in Isfahan, Iran, 1987. In the Iranian University Entrance Exam (Konkour 1361), his rank is 122th among over 100,000 competitors in 1983. He received the MS in Bioelectric Engineering from Sharif University of Technology, Tehran, Iran in 1992 and his PhD in Bioelectric Engineering at Amirkabir University of Technology, Tehran, Iran, in 2008.

He is a full professor of medical engineering at the Department of Bioelectrics in advanced medical technology of Isfahan University of Medical Sciences, Iran. His research interests are development of Biomedical Image analysis on CMRI, Biosignal processing techniques on ECG & BCI and Biomedical instruments. His road map has three branches which shows in below:

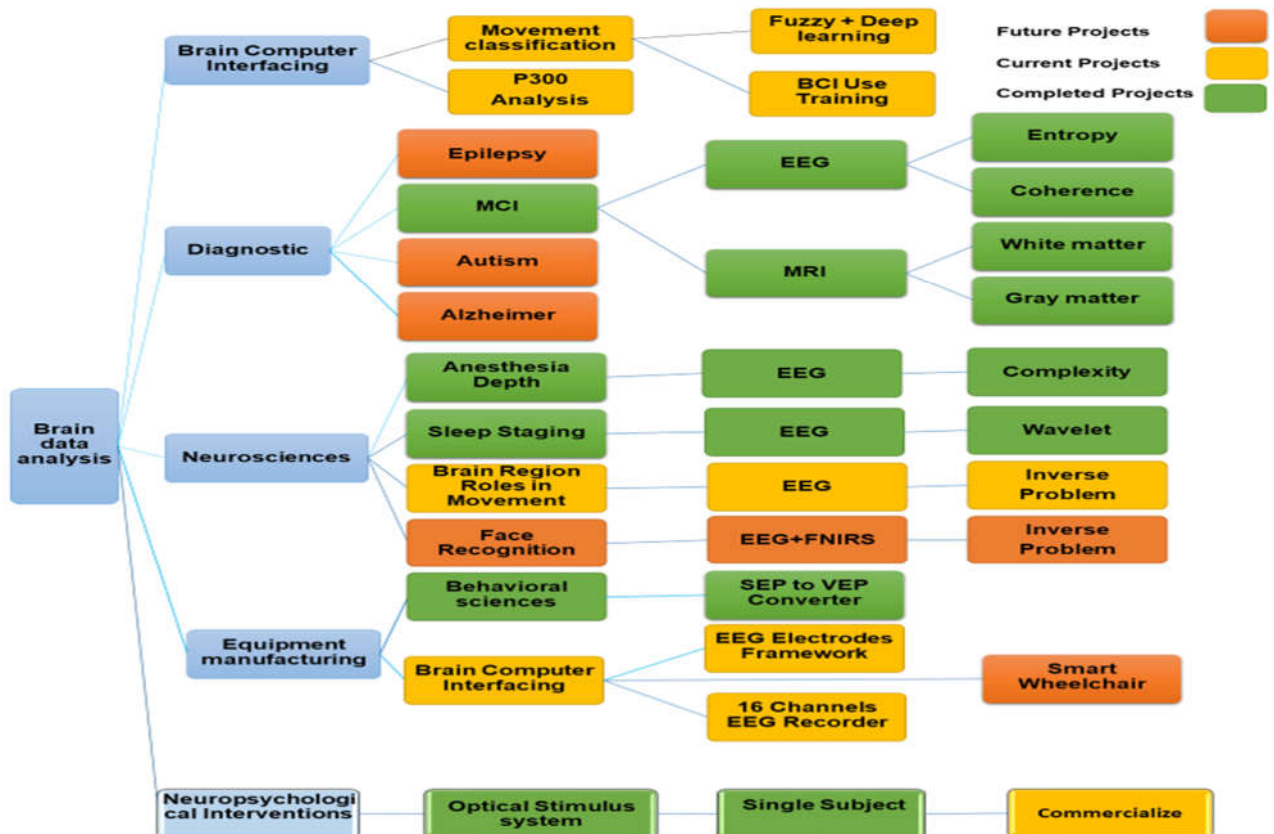
ROAD MAP1, implement bio instruments



ROAD MAP2, cardiac signal Analysis



ROAD MAP3, Brain signal Analysis



Ranked 840th among 400,000 competitors in national universities attendance exam in 2001

Selective Papers:	Year
An insight into fluorescence and magnetic resonance bioimaging using a multifunctional polyethyleneimine-passivated gadocarbon dots nanoconstruct assembled with AS1411	2023
Z Farahbakhsh, M Zamani, V Nasirian, L Shariati, S Kermani, ... Microchimica Acta 190 (7), 275	
Automated camera lucida method with colored images through integration of hardware and software in microscopic zooming	2023
F Vahabi, S Kermani, Z Vahabi, N Pestechian	
Journal of Medical Signals & Sensors 13 (2), 160-164	
A New Approach of PCG Analyzing for screening some of Cardiovascular Diseases	2022
Ehsan Mohammadi , Saeed Kermani * , Mahdi Nourian-Zavareh , Alale Zare , Hamed Aghapanah-Roudsari , Maryam Samieinasab , Hamid Sanei	
Journal of Isfahan Medical School, Volume:40 Issue: 661, 2022 , ISSN: 1027-7595 eISSN: 1735-854	
Wavelet-Based Biphase Analysis of Brain Rhythms in Automated Wake–Sleep Classification	2022
E Mohammadi, B Makkiabadi, MB Shamsollahi, P Reisi, S Kermani*	
International Journal of Neural Systems 32 (02), 2250004	
Automated drawing tube (camera lucida) method in light microscopy images analysis can comes true	2021
F Vahabi, S Kermani*, Z Vahabi, N Pestechian	
Journal of Microscopy and Ultrastructure 9 (4), 170	
A Multichannel Intraluminal Impedance Gastroesophageal Reflux Characterization Algorithm Based On Sparse Representation	2021
AR Kenari, H Rabbani*, S Kermani, M Raisi, M Soheilipour, P Adibi	
IEEE Journal of Biomedical and Health Informatics 25 (9), 3576-3586	
On the bioactivity and mechanical properties of gehlenite nanobioceramic: A comparative study	2020
A Bigham, S. Kermani*, AH Aghajanian, M Rafienia	
Journal of Medical Signals and Sensors 10 (2), 105	
NF-RCNN: Heart localization and right ventricle wall motion abnormality detection in cardiac MRI	2020

- S Kermani*, MG Oghli, A Mohammadzadeh, R Kafieh
 Physica Medica 70, 65-74
- [Automatic detection of acute lymphoblastic leukaemia based on extending the multifractal features](#)
 M Abbasi, S Kermani*, A Tajebib, M Moradi Amin, M Abbasi 2020
 IET Image Processing 14 (1), 132-137
- [Corrigendum: Automatic detection of acute lymphoblastic leukaemia based on extending the multifractal features](#)
 M Abbasi, S Kermani*, A Tajebib 2020
- [The Effect of Neuropsychological Interventions on color recognitions in children with low vision by optical stimulus system: A single subject study](#)
 E Moazeni, S kermani*, S Faramarzi, F Tavakolli, Journal of Isfahan Medical School 2019
 37(539), pp. 989-993,
- [Estimation and Evaluation of New Features from Phonocardiogram for Detecting Cardiovascular Abnormalities](#)
 M Nourian-Zavareh,, S Kermani,, M. Hashemi-Jazi, M, Samieinasab, 2019
 Journal of Isfahan Medical School, 36(506), pp. 1444-1449
- [Design and implementation of optical stimulus system for rehabilitation and development of visual functions in children with low vision](#)
 S Kermani*, E Moazeni, F Tavakoli, A Kermani, 2019
 Optik 198, 163210
- [Automatic detection of acute lymphoblastic leukemia based on extending the multifractal features](#)
 S Kermani*, A Talebi, MM Amin, 2019
 IET Image Processing
- [Extraction Of Left Ventricular Wall Mechanical Indexes Using Four-Dimensional Image Analysis Of Mri, Based On A Nonlinear Hyperelastic Model](#)
 H Yousefi-Banaem, S Kermani*, H Sanei, A Daneshmehr 2019
 Iranian Congress of Radiology 34 (4), 100-100

- [A hybrid graph-based approach for right ventricle segmentation in cardiac MRI by long axis information transition](#) 2018
 MG Oghli, A Mohammadzadeh, R Kafieh, S Kermani*
 Physica Medica 54, 103-116
- [Introduction of low to high frequencies bispectrum rate feature for deep sleep detection from awakening by electroencephalogram](#) 2018
 E Mohammadi, S Kermani*, B Amra
 Tehran University Medical Journal TUMS Publications 76 (5), 326-330
- [The design and validation of a hybrid digital-signal-processing plug-in for traditional cochlear implant speech processors](#) 2018
 F Hajiaghababa, HR Marateb, S Kermani
 Computer methods and programs in biomedicine 159, 103-109
- [Designing an Inverter-based Operational Transconductance Amplifier-capacitor Filter with Low Power Consumption for Biomedical Applications](#) 2018
 S Yousefinezhad, S Kermani*, S Hosseinnia
 Journal of medical signals and sensors 8 (1), 53
- [A novel feature ranking method for prediction of cancer stages using proteomics data](#) 2017
 E Saghapour, S Kermani*, M Sehhati
 PloS one 12 (9), e0184203
- [Controversial cytogenetic observations in mammalian somatic cells exposed to extremely low frequency electromagnetic radiation: A review and future research recommendations.](#) 2017
 D Shahbazi-Gahrouei, S Sadat Setayandeh, F Aminolroayaei, S Kermani ...
 Journal of Medical Sciences 18 (3), 143-148
- [A novel and more efficient approach for automatic diagnosis of acute lymphoblastic leukemic cells based on combining geometrical and statistical features of blood cells](#) 2017
 MR Abbasi, S Kermani*, A Talebi
 Journal of Isfahan Medical School 35 (433), 643-647
- [Automatic separation of awakening from sleep epochs based on bispectrum analysis of electroencephalogram signals](#) 2017

- E Mohammadi, S Kermani, B Amra
Journal Of Isfahan Medical School (IUMS) 35 (4480033), 1271-1275
[Proposing an approach for diagnosis of mild cognitive impairment based on approximate entropy](#)
2017
- B T Shabanian, S Kermani*, M Barekatin, M Kashefpoor
Journal Of Isfahan Medical School (IUMS) 34 (407), 1356-1361
[Prediction of myocardial infarction by assessing regional cardiac wall in CMR images through active mesh modeling](#)
2017
- HS H Yousefi-Banaem, S Kermani*, S Asiaei
Computers in Biology and Medicine 80, 56-64
[Detecting Infarct Region in Cardiac Magnetic Resonance Images Through Weighted Normalized Mutual Information](#)
2017
- H Yousefi-Banaem, S Kermani*, H Sanei, A Daneshmehr
Iranian Journal of Radiology 14 (3)
[A novel detector algorithm for swing and stance phases based on knee acceleration variation in gait analysis among normal and ACL-deficient subjects](#)
2016
- S Kermani*, S.,Fazlali, H.,Sadeghi
Journal Of Mazandaran University Of Medical Sciences 26 (141)
[Computer aided detection and classification of acute lymphoblastic leukemia cell subtypes based on microscopic image analysis](#)
2016
- M MoradiAmin, A Memari, N Samadzadehaghdam, S Kermani, A Talebi
Microscopy research and technique 79 (10), 908-916
[A Combined Spatial Fuzzy C-Means and Level Set Approach for Endocardium Segmentation in MRI Image Series](#)
2016
- H Yousefi-Banaem, S Kermani*, O Srrafzadeh
Archives of Cardiovascular Imaging 4 (3)
[Application of hyperelastic-based active mesh model in cardiac motion recovery](#)
2016
- H Yousefi-Banaem, S Kermani*, A Daneshmehr, H Saneie
Journal of medical signals and sensors 6 (3), 141

- [Diagnosis of mild cognitive impairment \(MCI\) via estimating the density of gray matter using voxel-based morphometry \(VBM\) in the brain magnetic resonance imaging \(MRI\)](#)
Karimi, Z., Kermani, S*., Barekatin M 2016
Journal of Isfahan Medical School 33 (363), 2204
- [A novel detector algorithm for swing and stance phases based on knee acceleration variation in gait analysis among normal and ACL-deficient subjects](#)
Kermani, S*.,Fazlali, H.,Sadeghi H 2016
Journal of Mazandaran University of Medical Sciences 26 (141), 95
- [Enhanced recognition of acute lymphoblastic leukemia cells in microscopic images based on feature reduction using principle component analysis](#)
M MoradiAmin, N Samadzadehaghdam, S Kerman*i, A Talebi 2015
Frontiers in Biomedical Technologies 2 (3), 128-136
- [Automatic color segmentation of breast infrared images using a Gaussian mixture model](#)
S Kermani*, N Samadzadehaghdam, M EtehadTavakol 2015
Optik 126 (21), 3288-3294
- [Evaluation and Estimation of gray matter volume using voxel-based morphometry of the brain magnetic resonance imaging \(MRI\) in normal elderly people and those with mild ...](#)
Kermani, S*.,Karimi, Z.,Barekatin M 2015
Journal of Isfahan Medical School 33 (353), 1649
- [Recognition of acute lymphoblastic leukemia cells in microscopic images using k-means clustering and support vector machine classifier](#)
MM Amin, S Kermani*, A Talebi, MG Oghli 2015
Journal of medical signals and sensors 5 (1), 49
- [An Undecimated wavelet-based method for cochlear implant speech processing](#)
F Hajiaghababa, S Kermani*, HR Marateb 2014
Journal of medical signals and sensors 4 (4), 247
- [An improved spectral subtraction algorithm for noise reduction in cochlear implants](#)
Mozaffarilegha, M.,Kermani S* 2014
International Journal of Scientific & Engineering Research 5 (3), 1214-1219

- [The effect of extremely low-frequency magnetic fields on the level of serotonin metabolite in the raphe nuclei of adult male rat](#) 2014
M Shahbazi, D.,Shiri, L.,Alaei, H.,Naghdi, N.,Kermani, S.,Afrouzi, H.,Kiani ...
Journal of Isfahan Medical School 32 (298), 1354
- [Improving speech intelligibility using ideal binary mask View in Scopus](#) 2014
Naseri, N., Kermani S*
Journal of Isfahan Medical School 31 (259)
- [Extremely low-frequency electromagnetic field influences the survival and proliferation effect of human adipose derived stem cells](#) 2014
S Razavi, M Salimi, D Shahbazi-Gahrouei, S Karbasi, S Kermani
Advanced biomedical research 3 (25)
- [An Improved Spectral Subtraction Algorithm for Noise Reduction in Cochlear Implants with Increasing Number of Channels.](#) 2013
M Mozaffarilegha, S Kermani*
Journal of Isfahan Medical School 31 (257)
- [An accurate multimodal 3-D vessel segmentation method based on brightness variations on OCT layers and curvelet domain fundus image analysis](#) 2013
R Kafieh, H Rabbani, F Hajizadeh, M Ommani, S Kermani
IEEE Transactions on Biomedical Engineering 60 (10), 2815-2823
- [An improved spatial FCM algorithm for cardiac image segmentation](#) 2013
H Yousefi-Banaem, S Kermani*, O Sarrafzadeh, D Khodadad
2013 13th Iranian Conference on Fuzzy Systems (IFSC), 1-4
- [Heart Motion Estimation Using a Deformable Model and Multislice Computerized Tomography Images.](#) 2013
H Khajehpour, S Kermani*, M Hashemi, M Karami
Journal of Isfahan Medical School 31 (234)
- [An improved spatial FCM algorithm for cardiac image segmentation](#) 2013
HY Banaem, S Kermani*, O Sarrafzadeh, D Khodadad

Iranian Conference on Fuzzy Systems: 27/08/2013-29/08/2013

[A review of algorithms for segmentation of optical coherence tomography from retina](#)

R Kafieh, H Rabbani, S Kermani 2013

Journal of medical signals and sensors 3 (1), 45

[Desired accuracy estimation of noise function from eeg signal by fuzzy approach](#)

Z Vahabi, S Kermani 2012

Journal of medical signals and sensors 2 (3), 176

[A comparison between the hp-version of finite element method with EIDORS for electrical impedance tomography](#)

N Saeedizadeh, S Kermani*, H Rabbani 2011

Journal of medical signals and sensors 1 (3), 200

[Arrhythmia detection based on Morphological and time-frequency Features of t-wave in Electrocardiogram](#)

E Zeraatkar, S Kermani*, A Mehridehnavi, A Aminzadeh, E Zeraatkar, ... 2011

Journal of medical signals and sensors 1 (2), 99

[Improving QRS detection for artifacts reduction](#)

E Zeraatkar, S Kermani*, A Mehridehnavi, A Aminzadeh 2010

2010 17th Iranian Conference of Biomedical Engineering (ICBME), 1-4

[Quantitative analysis of left ventricular performance from sequences of cardiac magnetic resonance imaging using active mesh model](#)

S Kermani, MH Moradi, H Abrishami-Moghaddam, H Saneei, MJ Marashi, ... 2009

Computerized Medical Imaging and Graphics 33 (3), 222-234

[3D Point Wise Tracking of the Left Ventricle over Cardiac Image Sequences Using Active Mesh and Physical Models](#)

S Kermani, MH Moradi, H Abrishami-Moghaddam, H Saneei 2008

Journal of Applied Sciences 8 (24), 4500-4511

[A New Approach for Quantification of 3D Cardiac Wall Motion Tracking Using Active Mesh](#)

2008

S Kermani*, MH Moradi, HA Moghadam, H Saneei

Ratio 650 (154), 230

[Assessment of gated single photon emission computerized tomography cardiac wall motion by using different reconstruction methods and filters in comparison with quantitative ...](#)

D Shahbazi-Gahrouei, A Arabpour, S Kermani, F Rastgoo

2008

Journal of Medical Sciences 8 (4), 342-349

[A fully 3D system for cardiac wall deformation analysis in MRI data](#)

FJ Dinan, P Mosayebi, HA Moghadam, M Giti, S Kermani*

2007

International Conference on Functional Imaging and Modeling of the Heart, 12-21

[Myocardial viability assessment with gated SPECT^{99m}Tc-Tetrofosmin % wall thickening comparison with F-18 FDG-PET.](#)

D Shahbazi-Gahrouei, A Arabpour, S Kermani*, F Rastgoo, R Sciagra, ...

2005

Journal of Medical Sciences 8 (4), 19-29

[By Cascade Connection Of General Power Mosfets, A Low-Cost, High Performance Pulser Is Designed For Ultrasound Imaging](#)

2004

S Kermani*

[Medical image analysis: Progress over two decades and the challenges ahead.](#)

S Kermani*, MH Moradi, H Abrishami-Moghaddam, H Saneei, ...

Journal of Applied Sciences 8 (24), 1119-1127

Patents:		
1	Scrolling , Screening and Imaging System for Diagnostic LAB Microscope	2019
2	Design 3D Autonomous Chaotic Oscillator for the Demonstrating States of the Nonlinear and Chaotic System as a training system of Chaos theorem	2013
3	Design and Implement of Pulse Generator For Exciting Ultrasound Probes	2012

Technological Products:		
1	Hard & Software; ECG and Heart rate Monitoring (Tehran sina Co) and 8 bed central monitoring	1992
2	Hardware & Software; Biosignal Monitoring and 8 bed central monitoring Esfahan, AVIS Co)	1998
3	Hardware & Software; EEG recorder and Analyser for Neurophysiology lab	1999
4	Software; Prediction of myocardial infarction by assessing regional cardiac wall in CMR images through active mesh modeling	2017
5	Software; Automatic detection of acute lymphoblastic leukemia	2017
6	Hardware; Two Channel Bioreactor Pressure Monitor and Supervisor	2017
7	Software; A hybrid graph-based approach for right ventricle segmentation in cardiac MRI by long axis information transition	2018
8	Software; Salmanyar: Elderly Health Monitoring Software	2019
9	Hardware; Design and implementation of optical stimulus system for rehabilitation and development of visual functions in children with low vision	2019
10	Hardware; Refurbish of Dartec HC Series Biomedical Load Frame in Biosynthetic Material Lab	2019
11	Hardware; Design and implementation of online monitoring system for diagnosis of ACL-deficient	2021
12	Hardware; Design of Flexible Electrode Framework As EEG Recording System For Using BCI	2022
13	Hardware; Design and implementation of a small ultra-low power wireless wearable device for long-term ECG signal monitoring	2023
14	Hardware; Design and Implementation Software and Hardware based on precision EEG for Training of BCI users	2023