Curriculum vitae (till September 2018)

➢ Profile:

Name: Meysam Siyah Mansoory

Email:

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meysam_phd_tums_89@yahoo.com.

Address: Biomedical Engineering Department, School of Medicine, Kermanshah University of Medical Sciences.

➢ Education:

PhD in Biomedical Engineering, Tehran University of Medical Sciences

Thesis title: fMRI Functional Brain Network Analysis Based on Graph Theory Using Fuzzy Theory

Supervisors: Dr. Mohammad Ali Oghabian, Dr. Amir Homayoun Jafari

➢ Honors:

1. 3rd rank of national PhD exam in biomedical engineering.
2. 3rd rank of the 13th Kharazmi Youth Festival.
3. 3rd rank for obtaining research grants in Tehran University of Medical Sciences.
4. Selected in Isfahan Inventions Festival.
5. Selected in Basij Inventions Festival.
6. Member of the National Elite Foundation.
7. Member of the Brilliant Talent Center of Tehran University of Medical Sciences.

➢ IELTS Score: 6.5

Speaking=7; Reading=7

➢ National Registered patents:

Flexible anti-bedsore mattress with localized ventilation and temperature control

➢ Research interests:

Medical Image and Signal Processing, Modern Imaging Systems (fMRI, DTI, MRS…), Neuroscience, biomedical devices.

➢ Books:

1. Modeling Biological Systems Modeling with MATLAB Software
2. Introduction to Fuzzy Logic and its Applications with MATLAB Software

➢ Papers:

➢ National congress:

1. **"Automatic Detection of Glioblastoma Multiforme Tumors Using Magnetic Resonance Spectroscopy Data Based on Neural Network",** Ayuob Faramarzi , Armin Allahverdy , Mahmood Amiri , Samira Raminfard , ***Meysam Siyah Mansoory***,2nd Neuroinflammation Congress, Mashhad, Iran, 2017.
2. **"Detection of Glioblastoma Multiforme Tumor in Magnetic Resonance Spectroscopy Based on Support Vector Machine"**, Ayuob Faramarzi, Armin Allahverdy, Mahmood Amiri, *Meysam Siyah Mansoory*, 2nd Medical Physics National Congress, Tehran, Iran, 2017.
3. **"Brain Activity Map Extraction from Multiple Sclerosis Patients Using Resting-State fMRI Data Based on Amplitude of Low Frequency Fluctuations and Regional Homogeneity Analysis"**, *Meysam Siyah Mansoory*, Razie Chehreh , Karim Khoshgard,2nd medical physics National Congress, Tehran, Iran, 2017.
4. **"Brain Activity Map Extraction of Neuromyelitis Optica Patients Using Resting-State fMRI Data Based on Amplitude of Low Frequency Fluctuations and Regional Homogeneity Analysis"**, *Meysam Siyah Mansoory*, Hosna Nouri Tahneh, Karim Khoshgard, 2nd Medical Physics National Congress, Tehran, Iran.2017.

➢ International congress:

1. **"Edge Defect Detection in Ceramic Tile Based on Boundary Analysis Using Fuzzy Thresholding and Radon Transform".** *Meysam Siyah Mansoory* **,**Hojjat Tajik,Gelareh Mohamadi, Mohsen Pashna, IEEE Symposium on Signal Processing and Information Technology (ISSPIT 2008), Sarajevo, Bosnia and Herzegovina.
2. **"Surface Defect Isolation in Ceramic Tile Based on Texture Feature Analysis Using Radon Transform and FCM".** *Meysam Siyah Mansoory***,** Hojjat Tajik, Mohsen Pashna. International Conference on Signal Processing Systems (ICSPS 2009), Singapore.
3. **"Cardiac Motion Evaluation for Disease Diagnosis using ICA Basis Neural Network".***Meysam Siyah Mansoory***,**Meghdad Ashtiyany, Hojjat Tajik ,International Conference on Bioinformatics and Biomedical Technology (ICBBT 2009), Singapore.
4. **"Landmark Extraction from Echocardiography Sequence based on Corner Detection Algorithms using Gradient Vector Matcher".** *Meysam Siyah Mansoory***,** Hamid Behnam, Emad Fatemizadeh International Conference on Bioinformatics and Biomedical Technology, (ICBBT 2009), Singapore.
5. **"Mitral Valve Prolapse Detection Using Landmark Extraction from Echocardiography Sequences."** *Meysam Siyah Mansoory***,** Alireza Ahmadian, Amrollah Gorgian Mohammadi, Parastoo Farnia, 34th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC'2012,USA.
6. **"On the Performance of Improved ICP Algorithms for Registration of Intra-Ultrasound with Pre-MR Images; a Phantom Study",** Parastoo Farnia, Alireza Ahmadian, , Mahdi Sedighpoor, Alireza Khoshnevisan, *Meysam Siyah Mansoory*, 34th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBC'2012,USA.
7. **"Brain Network Extraction Based on Box-Counting Fractal Dimension Using Improved Fuzzy C-means**", *Meysam Siyah Mansoory*, Mohammad Ali Oghabian, Amir Homayoun Jafari, European Society of Magnetic Resonance in Medicine and Biology, ESMRMB, 2015, UK.

➢ International journals:

- "**Automatic Cardiac Motion Quantification by Extracting Landmarks from an Echocardiography Sequence**", *Meysam Siyah Mansoory, Hamid Behnam, Emad Fatemizadeh*

ADVANCED APPLICATIONS OF ELECTRICAL ENGINEERING

- **"Isolating Healthy Bananas from Unhealthy Ones based on Feature Extraction and Clustering Method using Neural Network"**, *Meysam Siyah Mansoory,Hamidreza Fardad,Reza Enteshari*
- **"Automatic Crack Detection in Eggshell Based on SUSAN Edge Detector Using Fuzzy Thresholding"**, *Meysam Siyah Mansoory, Meghdad Ashtiyani, Hossein Sarabadani*

MODERN APPLIED SCIENCE

- **"The Analysis of Resting-State fMRI Topological Graph Theory Properties in Methamphetamine Drug Users Applying Box-Counting Fractal Dimension"**, *Meysam Siyah Mansoory, Mohammad Ali Oghabian, Amir Homayoun Jafari, Alireza Shahbabaie*

BASIC AND CLINICAL NEURO SCIENCE

- **"Mitral Valve Prolapse Classification from an Echocardiography Sequence Using Coherent Point Drift Method Based on Fractal Dimension"**, *Meysam Siyah Mansoory, Armin Allahverdy, Parmida Moradi Birgani , Meghdad Ashtiyani , Amir Homayoun Jafari*

JOURNAL OF BIOMEDICAL PHYSICS AND ENGINEERING

➢ Under review papers:

- CPD based Mitral Valve Prolapse Detetction using SUSAN Corner Extraction from an Echocardiography Sequenc
- Graph Theory-Based fMRI Functional Network Analysis of Methamphetamine Abusers Using Fuzzy Interference System Approach
- Brain Network Local Efficency Analysis of Methamphetamine Abusers Using Non Linear Approach

➢ Teaching experience:

Digital signal processing, Digital image processing, Biological signal processing, Medical imaging systems.

➢ REFERENCES

- Dr. Mohammad Ali Oghabian, Professor of Biomedical Engineering, Tehran University of Medical Sciences
- Dr. Amir Homayoon Jafar, Associate Professor of Biomedical Engineering, Tehran University of Medical Sciences
- Dr. alireza ahmadian, Professor of Biomedical Engineering, Tehran University of Medical Sciences
- Dr. Hamid Behnam, Associate Professor of Biomedical Engineering, Iran University of Science and Technology
- Dr. Emad Fatemizadeh Associate Professor of Biomedical Engineering, sharif university of technology
- Dr. Ali Motie Nasrabadi, Professor of Biomedical Engineering, Shahed University