Dr. Hamidreza Shirzadfar

Assistant Professor Head of Electrical and Biomedical Engineering Group Contact Email: <u>hsh@ashrafi.ac.ir</u> h-index in Google Scholar: 12 (<u>https://scholar.google.com</u>) RG Score: 24 (<u>https://www.researchgate.net</u>)

Last Update: November 1, 2022

EDUCATIONS

Doctoral Degree (PhD), Biomedical Engineering (Bioelectronics and Biosensors), Highest Honor 2011-2014

Institut Jean Lamour, Université de Lorraine, CNRS-UMR 7198, Nancy, France

(Corporation with Division of Biological Measurement and Applications, Institute of Nature and Environmental Technology, Kanazawa University, Kanazawa, Japan)

Lissertation: Design and evaluation of a GMR-biosensor for magnetic characterization of biological medium

• Master of Science, Electronic Instruments and Devices, GPA 3.95/4.00

2009-2010

2005-2009

- **4** Thesis: The use of film materials as the sensitive elements of sensors nonelectric quantities
- Bachelor of Science, Electronic Systems, GPA 3.77/4.00
 - **4** Thesis: Signal-phase controlled rectifier

ACADEMIC HONORS AND AWARDS

- Graduated with Prestigious Honors Diploma (Bachelor) among Ukrainians and International Students, 2009.
- Graduated with Prestigious Honors Diploma (Master) among Ukrainians and International Students, 2010.
- First Place Student Presentation Award Recipient in the 6th International Youth Science and Technology Conference, Sevastopol, Ukraine, 2010.
- PhD with Highest Honor from the Members of Jury, Nancy, June 2014.
- Receive an Encouragement Grade from 2 to 3 in the Assistant Professor Level at Sheikhbahaee University, 2017.
- Selected as Top Researcher of Engineering Faculty at Sheikhbahaee University, 2018.
- Receive an Encouragement Grade from 5 to 6 in the Assistant Professor Level at Sheikhbahaee University, 2020.
- Selected as First Top Researcher between all Faculty Members of Ashrafi Esfahani University, 2022.

WORK EXPERIENCE

- Researcher at Kanazawa University, Research on Giant Magnetoresistance Sensor for Measurement and Determination of Magnetic Fluids (Ferrofluid) and Investigation of the Magnetic Properties of Ferritin, Kanazawa, Japan.
- Researcher at Université de Lorraine, Research on Giant Magnetoresistance Sensor using in Biomedical Application, Nov 2011-Apr 2012, Nancy, France.
- Researcher at Électricité de France (EDF) & Université de Lorraine, Research on Induced Fields Simulation of Entire and Partial Human Body Models for Experimental Validations, Nov 2012-Apr 2013, Nancy, France.
- International Commercial Director, Mahan Iran Holding, Jul 2014-Feb 2016, Tehran, Iran.
- Managing Director, Mahan Rakhshan Pasargad, Sep 2015-March 2016, Isfahan, Iran.
- Research on Detection of the Pathogenic Bacteria based on Smart Bionanoparticles and Biomagnetic Sensor, University of Isfahan, Aug 2014-Jan 2016, Isfahan, Iran.
- Assistant Professor, Sepahan Institute of Higher Education, Feb 2016-Apr 2017, Isfahan, Iran.
- Head of Biomedical Engineering Group, Sepahan Institute of Higher Education, Apr 2016-Apr 2017, Isfahan, Iran.
- Dean of the Faculty of Electrical and Biomedical Engineering, Sepahan Institute of Higher Education, Aug 2016-Apr 2017, Isfahan, Iran.
- Assistant Professor, Sheikhbahaee University (Terminated with Grade 6 in the Assistant Professor Level), Jan 2017-August 2020, Isfahan, Iran.
- Assistant Professor, Ashrafi Esfahani University, August 2020-Present, Isfahan, Iran.
- Inter-University Cooperation & Industry Committee Member, Ashrafi Esfahani University, December 2020-Present, Isfahan, Iran.
- Head of Research and Development, Megashid Company, Feb 2021-Present, Isfahan, Iran.
- Head of Electrical and Biomedical Engineering Group, Ashrafi Esfahani University, June 2021-Present, Isfahan, Iran.

TEACHING EXPERIENCES

Undergraduate:

- Rehabilitation, Ashrafi Esfahani University, Sheikhbahaee University and Sepahan Institute of Higher Education.
- Biosensors & Biodetections, Ashrafi Esfahani University, Sheikhbahaee University and Sepahan Institute of Higher Education.
- Principles of Health Care Management, Ashrafi Esfahani University, Sheikhbahaee University and Sepahan Institute of Higher Education.
- Report and Project Writing, Sheikhbahaee University and Sepahan Institute of Higher Education.
- English for Biomedical Engineering Students, *Sheikhbahaee University and Sepahan Institute of Higher Education*.
- English for Electrical and Electronic Students, Ashrafi Esfahani University and Sheikhbahaee University.
- Medical Equipments, Sheikhbahaee University.
- Medical Physics, Ashrafi Esfahani University and Sepahan Institute of Higher Education.
- Telemedicine Technology, Sheikhbahaee University and Sepahan Institute of Higher Education.
- Electrical Circuit Lab I, *Sheikhbahaee University*.

- Electrical Safety in Hospitals, Ashrafi Esfahani University and Sheikhbahaee University.
- Physiology, Ashrafi Esfahani University and Sheikhbahaee University.
- Physiology Lab, Ashrafi Esfahani University and Sheikhbahaee University.
- Electrotherapy, Ashrafi Esfahani University and Sheikhbahaee University.
- Human Anatomy, Ashrafi Esfahani University and Sheikhbahaee University.
- Information Technologies in Medicine and Telehealth, Ashrafi Esfahani University and Sheikhbahaee University.
- Biomaterials, *Sheikhbahaee University*.
- Principles of Radiology and Radiation Systems, Sheikhbahaee University.
- Bioelectric Phenomena, Ashrafi Esfahani University and Sheikhbahaee University.
- Research Methods in Biomedical Engineering, Sheikhbahaee University.
- Information Technology, Sheikhbahaee University.

Graduate:

- Advanced Biosensors & Biodetections, Sheikhbahaee University & Sepahan Institute of Higher Education.
- Bio-Instruments, *Sheikhbahaee University*.
- Seminar, Sheikhbahaee University & Sepahan Institute of Higher Education.
- Preparation and Editing of Scientific Manuscripts, Sepahan Institute of Higher Education.
- The Neuromuscular Control Systems, Sheikhbahaee University.
- Information Technologies in Medicine and Telehealth, Sheikhbahaee University.
- Medical Robotics, *Sheikhbahaee University*.
- Advances in Telemedicine Technology, Sheikhbahaee University.

SUPERVISION & MENTORSHIP

- Second Year Master's Student Mentor for Thesis Entitled as: Generation of Uniform Magnetic Fields Using an Ellipsoidal Coil to Characterize a GMR Sensor, Université de Lorraine, 2013-2014.
- Second Year Master's Student Mentor for Thesis Entitled as: GMR Sensors and Their Applications, Université de Lorraine, 2013-2014.
- Bachelor's Project Supervisor for Thesis Entitled as: Diagnosis of Brain Tumor Using MATLAB Software, Sepahan Institute of Higher Education, 2014-2015.
- Bachelor's Project Supervisor for Thesis Entitled as: Skin Cancer Detection Using Non-invasive Techniques, 2014-2015.
- Bachelor's Project Supervisor for Thesis Entitled as: Bone Densitometry for Osteoporosis Diagnosis, Sepahan Institute of Higher Education, 2015-2016.
- Bachelor's Project Supervisor for Thesis Entitled as: Study of Multiple Sclerosis (MS) Disease and its Treatment, Sepahan Institute of Higher Education, 2015-2016.
- Bachelor's Project Supervisor for Thesis Entitled as: Computer Simulation and Filtration of the Heart Electrocardiogram Signal Using MATLAB Software, Sepahan Institute of Higher Education, 2015-2016.

- Bachelor's Project Supervisor for Thesis Entitled as: Designing and Manufacturing a Portable Dental Cavitron, Sepahan Institute of Higher Education, 2015-2016.
- Bachelor's Project Supervisor for Thesis Entitled as: Synthesis of Iron Oxide Chitosan Nanoparticles for Targeted Transport of Methotrexate, Sheikhbahaee University, 2015-2016.
- Bachelor's Project Supervisor for Thesis Entitled as: Telemedicine Technology, Sheikhbahaee University, 2015-2016.
- Bachelor's Project Supervisor for Thesis Entitled as: Brain Tumor Detection and Segmentation from MRI Images Using MATLAB, Sheikhbahaee University, 2016-2017.
- Bachelor's Project Supervisor for Thesis Entitled as: Design and Modeling of an Intelligent System for Bladder Problems in Patients with Fibromyalgia, Sheikhbahaee University, 2016-2017.
- Bachelor's Project Supervisor for Thesis Entitled as: Study the Dynamic Behavior of Stents for Patients with Coronary Disease, Sheikhbahaee University, 2017-2018.
- Bachelor's Project Supervisor for Thesis Entitled as: Modeling and Simulation of Stromal Tumor and its Ablation Method in the Small Intestine, Sheikhbahaee University, 2017-2018.
- Bachelor's Project Supervisor for Thesis Entitled as: A Simulation Model to Study the Effect of Smart Drugs on the Blood Transfusion Vessels, Sheikhbahaee University, 2017-2018.
- Bachelor's Project Supervisor for Thesis Entitled as: Manufacture of Intelligent and National Bilirubin Blood Test Device for Continuous Measurement of Jaundice, Sheikhbahaee University, 2018-2019.
- Bachelor's Project Supervisor for Thesis Entitled as: Smart Order Routing Design and Build a Wheelchair for the Disabled in the Area of Intervertebral Cervical Spinal Cord (C1-C7) Injury, Sheikhbahaee University, 2018-2019.
- Bachelor's Project Supervisor for Thesis Entitled as: Design and Manufacture of Wearable Phototherapy Device for the Treatment of Neonatal Jaundice, Sheikhbahaee University, 2018-2019.
- Bachelor's Project Supervisor for Thesis Entitled as: Simulation and Fabrication of a Trapezoidal Coil to Create a Uniform Magnetic Field for Study in Intelligent Drug Delivery Systems, Sheikhbahaee University, 2018-2019.
- Bachelor's Project Supervisor for Thesis Entitled as: Design and Manufacture a Continuous Monitoring System of Intelligent Vital Signs for two-way Monitoring of Patient Conditions between the Ambulance and the Hospitals with Minimal Delay, Ashrafi Esfahani University, 2021-2022.
- Bachelor's Project Supervisor for Thesis Entitled as: Classification of 52 Hand Movements of Disabled People based on Extracting Frequency and Nonlinear Features from Surface Electromyogram Signal, Ashrafi Esfahani University, 2021-2022.
- Bachelor's Project Supervisor for Thesis Entitled as: Flexible Sensors for Monitoring Vital Signs, Ashrafi Esfahani University, 2021-2022.
- Bachelor's Project Supervisor for Thesis Entitled as: Neuroplasticity Effect of Neural Plasticity for the Treatment of Brain Diseases, Ashrafi Esfahani University, 2021-2022.
- Instructor of Medical Equipment Workshop, "National Conference on Modern Technology in Computer and Biomedical Engineering", Feb 2019, Sheikhbahaee University, Isfahan, Iran.
- Master's Student Supervisor for Thesis Entitled as: Dynamic Connectivity Network Extraction in Electrode Number Optimization for Hand Movement Classification based on EMG Wavelet Decomposition and Dempster–Shafer Theory in Classifiers Fusion, Sheikhbahaee University, 2019-2020.
- Master's Student Supervisor for Thesis Entitled as: Design a new Multi-functional Device to Assist and Improve the Discernment of Low Vision Patients and Blind, Sheikhbahaee University, 2018-2021.
- Master's Student Supervisor for Thesis Entitled as: Study of Intravascular Plaque removal using magnetic Field and Magnetic Nanoparticles, Sheikhbahaee University, 2019- 2021.

- Master's Student Supervisor for Thesis Entitled as: Design, Simulation and Construction of a Device to Estimate the Amount of Respiration with a Strain Gauge Sensor and Induction Method, Sheikhbahaee University, 2019- 2022.
- Master's Student Supervisor for Thesis Entitled as: Detection of Epileptic Seizures using the Multiple-Local Mean-based Nearest Neighborhood Classification Method Relying on Mayfly Optimization and K-means, Ashrafi Esfahani University, 2021- 2022.

QUALIFICATION & SKILLS

- Extensive Experience in Analyzing Diffusion Processes of Layers Film Systems, Strain Deformation Properties of Film Materials and Elastic-Plastic Deformation of Magnetic Materials, Structural and Phase Composition, Magnetic Properties of Films Systems, Susceptibility of Bio-Magnetic Materials Under Weak Magnetic Field, Design and Characterization of Giant Magneto-Resistance Sensors, and Detection of Bacteria by Magnetic Markers. Analyzed the Effects of External Electrical and Magnetic Fields on Pacemakers.
- Professional in analog circuit, digital logic simulation and PCB design software such as PSPICE and PROTEUS.
- Professional in Multi-Physics Software COMSOL and CST Studio Suite.
- Familiar with Computer Aided Design (CAD) Software AutoCad and Solidworks.
- Familiar with Control System Software LabVIEW.
- Professional in Data Analysis and Graphing Software Sigmaplot and Origin.
- Professional in Mathematical and Control Software Mathcad and Matlab.
- Professional in Microsoft Office Software Word, Excel, PowerPoint, and Visio.

CERTIFICATE

- Engineering Certificate, Interregional Academy of Personnel Management, Ukraine, 2004-2005.
- European Doctoriales Participant, University of the Greater Region (UGR) Project, France, 2011.
- Energie dans les Microsystèmes Autonomes et Validée, France, 2011.
- Journees Maghreb-Europe Materiaux et Applications aux Dispositifs et Capteurs, Tunisia, 2012.

LANGUAGES

- Persian: Mother tongue
- French: Fluent
- Russian: Fluent
- Ukrainian: Proficient
- English: Proficient

INTERNSHIPS

• Biomedical Research on Giant Magneto-resistance Sensor for Measurement and Determination the Magnetic Properties of Magnetic Fluids (Ferro-fluid) and also Estimation the Iron Percentage of

Ferritin, Division of Biological Measurement and Applications, Institute of Nature and Environmental Technology, Kanazawa University, Kanazawa, Japan.

- European Doctoriales Participant, University of the Greater Region (UGR) Project, Oct 2011, Verton, France.
- Energie dans les Microsystèmes Autonomes et Validée, Ecole Supérieure des Technologies Industrielles Avancées (ESTIA), Nov 2011, Bidart, France
- CST System Integrity Workshop, March 2012, Mulhouse, France.
- Les rencontres Techniques de NI Mesures et Acquisition de Données: de la Théorie à la Mise en en œuvre, March 2012, Nancy, France.
- Labview Experimental Workshop, National Instruments, April 2012, Nancy, France.
- 8èmes Journees Maghreb-Europe Materiaux et Applications aux Dispositifs et Capteurs (MADICA 2012), Nov 2012, Sousse, Tunisia.
- Journée des Doctorants Lorrains en Sciences Exactes et Naturelles, Université de Lorraine, June 2013, Pont-à-Mousson, France.

ACTIVITES

- Conference Organizer & Members of the Scientific Committee, "The 1th Sepahan Meeting on Biomedical and Electrical Engineering (SMBE 2016)", Nov 2016, Sepahan Institute of Higher Education, Isfahan, Iran.
- Members of the Scientific Committee, "National Conference on Modern Technology in Computer and Biomedical Engineering", Feb 2019, Sheikhbahaee University, Isfahan, Iran.
- Conference Organizer, "The 4th Conference on Protein and Peptide Science", May 2019, University of Isfahan, Isfahan, Iran.
- Conference Scientific Secretary, "The First National Conference of New Achievements in Electrical Engineering, Computer and Biomedical Engineering", Feb 2023, Ashrafi Esfahani University, Isfahan, Iran.

COLLABORATION

- Scientific Scholar Representative between Department of Applied Physics at Sumy State University (Ukraine) and Institut Jean Lamour at Université de Lorraine (France) for a Joint Project and Science Development, Europe, 2011-2015.
- Collaborative Research on Preparation, Characterization and Evaluation of Smart Drug Delivery Project, Department of Biotechnology, Faculty of Advanced Sciences and Technologies, University of Isfahan, 2015-2020.
- Collaboration for Project Entitled as: Preparation, Characterization and Fabrication of Microfluidic Biosensor to Detect the Pathogenic Bacteria and for Bioseparation, Institut Jean Lamour, Université de Lorraine, 2017-2019.

GRANTS

• Ashrafi Esfahani University Research Internal Grant, Grant Number: 1401/304, Amount: \$17,000 "Design and Manufacture a Continuous Smart Vital Signs System for two-way Monitoring of the Patient's Condition between the Ambulance and the Medical centers with Minimal Delay", 2022-Present.

EDITORIAL BOARD MEMBER

- Journal of Bioanalysis & Biomedicine, ISSN: 1948-593X. https://www.hilarispublisher.com/editor/hamidreza-shirzadfar-3173#
- Journal of Nano- and Electronic Physics, ISSN: 2077-6772 (Print); 2306-4277 (Online).
- Journal of Pharmacovigilance and Pharmacotherapeutics, Gavin Publishers, ISSN: 2688-6464. <u>https://gavinpublishers.com/journals/board_members/journal-of-pharmacovigilance-and-pharmacotherapeutics.html</u>
- Journal of Biomedical Engineering: Current Research. <u>https://www.pulsus.com/biomedical-engineering/editorial-board.html</u>
- Journal of Biosensors and Bioelectronics Open Access, ISSN: 2577-2260. https://www.gavinpublishers.com/journals/journals_details/Journal-of-Biodevices
- Syntax Journal of Biotechnology and Bioengineering. <u>https://syntaxpublishers.org/journal/syntax-journal-of-biotechnology-and-bioengineering#editorial-board-members</u>
- Journal of Ageing and Restorative Medicine (JARM), ISSN: 2473-1943. http://www.scitcentral.com/editorboardDetails.php?id=1517&journal=48
- JResLit Journal of Science and Technology. <u>https://jreslitpublications.com/science-and-technology/editorial-board.php</u>
- International Journal of Biosensors & Bioelectronics (IJBSBE), ISSN: 2573-2838. https://medcraveonline.com/IJBSBE/editorial-board
- Austin Journal of Clinical & Diagnostic Research, <u>https://austinpublishinggroup.com/clinical-diagnostic-research/editorialBoard.php</u>

BOOK

- "Telemedicine Technologies: Information Technologies in Medicine and Telehealth" (Translated into Persian by **Shirzadfar, H**., Taheri-Kafrani, A., Lotfi, F.,) ISBN: 978-600-417-031-4, 2017.
- "Introduction to Biomedical Engineering (Biomaterials)" (Translated into Persian by **Shirzadfar, H**., Sehati, M., Khanahmadi, M.,) ISBN: 978-600-547-312-4, 2018.
- "Diagnostic Radiology Physics" (Translated into Persian by Shirzadfar, H.,) ISBN: 978-600-547-313-1, 2018.
- "Introduction to Biomedical Engineering (Bio Instruments)" (Translated into Persian by Shirzadfar, H., Sehati, M., Khanahmadi, M.,) ISBN: 978-600-547-315-5, 2018.
- "Enzyme Kinetics: A Modern Approach" (Translated into Persian by Taheri-Kafrani, A., Shirzadfar, H., Dehghani, P.), Published by University of Isfahan, ISBN: 978-600-110-175-5, 2019.
- "Physiological Systems Modeling" (Compiled by Sehati, M., Shirzadfar, H., Sheikhi, K.,), ISBN: 978-600-547-316-2, 2019.
- "Review of Telemedicine Technologies" (Compiled by **Shirzadfar, H**), ISBN: 978-600-547-317-9, 2019.
- "Review of Telemedicine Technologies" (Compiled by **Shirzadfar, H**), New Version is Published by Ashrafi Esfahani University, ISBN: 978-600-945-616-1, 2020.
- "Introduction to Identify and Model Biological Systems" (Compiled by **Shirzadfar, H.,** and Sehati, M.,), ISBN: 978-622-98403-0-6, 2022.
- "Bioelectricity and Biophenomena" (Compiled by Shirzadfar, H), Under preparation.
- "Bio Chemical for Biomedical Students" (Compiled by **Shirzadfar, H**., Taheri-Kafrani, A., Mohammadi, A.,), Under preparation.
- "Rehabilitation: Orthotics and Prosthetics" (Compiled by Shirzadfar, H., Dohani, S.,), Under preparation.

- "Study of COMSOL Multiphysics for Engineers" (Compiled by Shirzadfar, H.), Under preparation.
- "Introduction to Biomedical Engineering (Biomechanical Engineering)" (Translated into Persian by Shirzadfar, H., Sehati, M.,), Under preparation.
- "Introduction to Biomedical Engineering (Biomedical Signal Processing)" (Translated into Persian by Shirzadfar, H., Sehati, M.,), Under preparation.
- "Muscles, Nerves and Movement" (Translated into Persian by Shirzadfar, H.,), Under preparation.

BOOK CHAPTER

• Taheri-Kafrani, A., **Shirzadfar, H**., Tavassoli-Kafrani, E., "Dendrimers and Dendrimers-Grafted Superparamagnetic Iron Oxide Nanoparticles: Synthesis, Characterization, Functionalization, and Biological Applications in Drug Delivery Systems", *Nano- and Microscale Drug Delivery Systems*, Elsevier, 2017, ISBN: 978-0-323-52727-9, eBook ISBN: 978-0-323-52728-6.

PEER-REVIEWED JOURNAL ARTICLES

- Ngo, T. T., **Shirzadfar, H**., Kourtiche, D., Nadi, M., "A planar interdigital sensor for bio-impedance measurement: theoretical analysis, optimization and simulation", *Journal of Nano- and Electronic Physics*, Vol. 6, No. 1, pp. 01011(1)-01011 (7), 2014.
- Vorobiov, S. I., Cheshko, I. V., Chornous, A. M., **Shirzadfar, H**., Shutylieva, O. V., "The Phase Composition and Magnetic Properties of Film Systems Based on Fe(Co) and Gd(Dy)", *Journal of Nano- and Electronic Physics*, Vol. 6, No. 2, pp. 02022 (1)-02022 (8), 2014.
- Shirzadfar, H., Nadi, M., Kourtiche, D., Yamada, S., Shahabi, P., "Characterization of a needle-type giant magnetoresistance sensor for detection of Escherichia coli's magnetic marker", *International Journal on Smart Sensing and Intelligent Systems (S2IS)*, Vol. 8, No. 1, pp. 220-234, 2015.
- Shirzadfar, H., Nadi, M., Kourtiche, D., Yamada, S., "Needle-type GMR Sensor to Estimate the Magnetic Properties of Diluted Ferrofluid for Biomedicine Application", *Innovation and Research in BioMedical Engineering (IRBM) Journal*, Vol. 36, pp. 178-184, 2015. DOI: <u>https://doi.org/10.1016/j.irbm.2015.01.014</u>
- Shirvani, P., Shirzadfar, H., "Design a New Configuration of Micro Strip Rectangle Patch Antenna on Different Thickness Substrate for Telemedicine Applications", *Journal of Nano- and Electronic Physics*, Vol. 8, No. 3, pp. 03028(1)-03028(4), 2016. DOI: <u>10.21272/jnep.8(3).03028</u>
- Shirzadfar, H., "Rapid Methods for the Detection of Bacteria via Giant Magnetoresistance Sensor and Biomagnetic Marker", *Journal of Bioanalysis & Biomedicine*, Vol. 8, Issue. 3, 2016. DOI: 10.4172/1948-593X.1000e141
- Shirzadfar, H., Shirvani, P., "Design a Novel Microstrip Rectangle Patch Antenna Utilized in Telemedicine Applications", Journal of Bioanalysis & Biomedicine, Vol. 8, Issue. 5, 2016. DOI: 10.4172/1948-593X.1000e145
- Shirzadfar, H., Riahi, S., Ghaziasgar, MS., "Cancer Imaging and Brain Tumor Diagnosis". *Journal of Bioanalysis & Biomedicine*, Vol. 9, Issue. 1, 2017. DOI: <u>10.4172/1948-593X.1000e149</u>
- Shirzadfar, H., Mohammadi, A., Sadeghpour, Z., Sadeghi, M., "Focus on Treatment for Bladder Control Problems (Urinary Incontinence)", *Journal of Pharmacovigilance and Pharmacotherapeutics*, J 109, 2017. DOI: 10.29011/JPPT-109. 100109
- Shirzadfar, H., Lotfi, F., "The Evolution and Transformation of Telemedicine", *International Journal of Biosensors & Bioelectronics*, Vol. 3, Issue 4, pp. 303-306, 2017. DOI: 10.15406/ijbsbe.2017.03.00070

- Shirzadfar, H., Khanahmadi, M., Mahlouji, E., Mokhtari, S., "Wavelet Technique and Function for Noise Removal from ECG Signal", *International Journal of Bioinformatics and Computational Biology*, Vol. 3, No. 1, pp. 1-5, 2018.
- Shirzadfar, H., Ghaziasgar, MS., Piri, Z., Khanahmadi, M., "Heart Beat Rate Monitoring Using Optical Sensors", *International Journal of Biosensors & Bioelectronics*, Vol. 4, Issue 2, pp. 48-54, 2018. DOI: <u>10.15406/ijbsbe.2018.04.00097</u>
- Shirzadfar, H., Mokhtari, N., "Critical Review on Thalassemia: Types, Symptoms and Treatment", *Advancements in Bioequivalence & Bioavailability*, Vol. 1, Issue 2, pp. 1-4, 2018.
- Shirzadfar, H., Mohammadi, A., Sadeghi, M., "Modeling and Simulation of Bladder Problems in Patients with Fibromyalgia", *Austin Journal of Biosensors & Bioelectronics*, Vol. 4, Issue 1, pp. 1028 (1)- 1028 (5), 2018.
- Shirzadfar, H., Mohammadi, A., Sadeghi, M., "The Pathophysiology of Fibromyalgia: Diagnosis and Treatment", *Journal of Medicine*, Vol. 4, No. 1, pp. 1-13, 2018.
- Shirzadfar, H., Khanahmadi, M., "Physical Principles and Recent Advances of Medical Imaging Systems", *Journal of Health*, Vol. 5, No. 1, pp. 21-27, 2018.
- Shirzadfar, H., Vahid, F., Kiafar, F., Aledavood, S., "A Focused Review on Materials and Generations of Coronary Stents", *Advances in Tissue Engineering and Regenerative Medicine*, Vol. 4, No. 3, pp. 478-484, 2018. DOI: 10.15406/atroa.2018.04.00081
- Shirzadfar, H., Khanahmadi, M., "Application of Biomarkers and Biosensors to Detect and Track Pathogenic Agents", *International Journal of Analytical Techniques*, Vol. 4, No. 1, pp. 1-5, 2018. DOI: <u>10.15226/2577-7831/4/1/00117</u>
- Shirzadfar, H., Khezri, N., Khanahmadi, M., "Simulation Based Improvement Technique of Electroencephalography Signals with the LTspice", *SciFed Journal of Bone and Spine*, Vol. 1, No. 1, pp. 1-9, 2018.
- Shirzadfar, H., Hosseini Nezhad, M., Salimiyan, H., "The Medication Side Effects in the Treatment of Cancer: A Review", *Austin Journal of Biosensors & Bioelectronics*, Vol. 4, No. 1, pp. 1031 (1)-131 (4), 2018.
- Shirzadfar, H., Khanahmadi, M., "Measuring Blood Glucose in a Non-Invasive Manner based on Near-Infrared and Automatically Sending Information to the Medical Center", *Biomedical engineering: Current Research*, Vol. 1, No. 1, pp. 1-3, 2018.
- Shirzadfar, H., Khanahmadi, M., "Design and Development of ECG Simulator and Microcontroller Based Displayer", *Journal of Biosensors & Bioelectronics*, Vol. 9, No. 3, pp. 1000256/1-1000256/9, 2018. DOI: <u>10.4172/2155-6210.1000256</u>
- Shirzadfar, H., Khanahmadi, M., "Introduction to Design and Manufacture of a Heart Signal Simulator and Graphic Displayer Based on The ATmega Microcontroller", *Journal of Biological and Medical Sciences*, Vol. 2, No. 2, pp. 1-4, 2018.
- Shirzadfar, H., Khanahmadi, M., "Current Approaches and Novel Treatment Methods for Cancer and Radiotherapy", *International Journal of Biosensors & Bioelectronics*, Vol. 4, No. 5., pp. 224-229, 2018. DOI: <u>10.15406/ijbsbe.2018.04.00131</u>
- Shirzadfar, H., Mokhtari, N., Claudel, J., "Optimize the Geometrical Parameters of Interdigital Micro-Electrodes Used in Bioimpedance Sensing System", *Journal of Nano- and Electronic Physics*, Vol. 10, No. 5., pp. 05029 (1)-05029 (4), 2018. DOI: <u>10.21272/jnep.10(5).05029</u>
- Shirzadfar, H., Khanahmadi, M., "General Review on the Properties and Applications of Magnetic Nanoparticles in Biomedicine", Biomaterials & *Medical Applications (BMA)*, Vol. 2, No. 2., pp. 1-8, 2018. DOI:10.4172/2577-0268.1000119
- Shirzadfar, H., Shahbazi, M., Ghasemi, F., "Computer Modeling and Simulation of Stromal Tumor and Its Ablation Method in the Small Intestine", *Austin Journal of Biosensors and Bioelectronics*, Vol. 4, No. 1., pp. 1032 (1)-1032 (6), 2018.

- Shirzadfar, H., Khanahmadi, M., "Review on Structure, Function and Applications of Microfluidic Systems", *International Journal of Biosensors & Bioelectronics*, Vol. 4, No. 6., pp. 263-265, 2018. DOI: <u>10.15406/ijbsbe.2018.04.00137</u>
- Shirzadfar, H., Khanahmadi, M., "General Review on Cardiac Implants and Study of the Methods for Reducing Electromagnetic Interference (EMI)", *Journal of Cardiovascular Medicine and Therapeutics*, Vol. 2, No. 4., pp. 1-8, 2018.
- Shirzadfar, H., Aledavood, S., Kiafar, F., Vahid, F., "The Classification, Comparison and Behavior of Coronary Stents: A Focused Review on Materials and Clinical Studies & Complications", *Biomedical Research and Reviews*, Vol. 1, No. 2., pp. 1-7, 2018. DOI: <u>10.31021/brr.20181107</u>
- Shirzadfar, H., Sheikhi, K., Meschian, Z., "The Epidemiologic Study of Neonatal Jaundice, Relation Between Jaundice and liver & Alternative Methods to Cure Jaundice", *Clinical Practice (Therapy)*, Vol. 16, No. 3., pp. 1117-1125, 2018. DOI:10.4172/clinical-practice.1000454
- Shirzadfar, H., Ghasemi, F., Shahbazi, M., "A Review of Recent Application of Medical Thermography in Human Body for Medical Diagnosis", *SCIOL (Science Open Library) Biomedicine*, Vol. 2, No. 2., pp. 102-120, 2018.
- Shirzadfar, H., Arab, S., "A Simple Surface Electromyogram Signal Simulator for Testing of Measurement Equipment", *Journal of Pharmacology and Medicinal Chemistry*, Vol. 2, No. 3., pp. 39-42, 2018.
- Shirzadfar, H., Hosseini Nezhad, M., Salimiyan, H., "A Simulation Model to Study the Effect of Smart Drugs on the Blood Transfusion Vessels", *Significances of Bioengineering & Biosciences*, Vol. 3, No. 1., pp. 1-5, 2019. DOI: <u>10.31031/SBB.2019.03.000552</u>
- Shirzadfar, H., Bashiri, M., Khanahmadi, M., "Design and Manufacture a Portable Medical Instrument Based on Optical Sensor to Measure the SpO₂ and Heart Rate", *Syntax Journal of Biotechnology and Bioengineering*, Vol. 1, No. 1., pp. 104/1-104/6, 2019.
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