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h-index (Scopus):

5

Citations (Scopus):

51

Supervised MSc Theses

#	Thesis title	By	Date
1	Numerical analysis of Carotid artery disease on baroreflex mechanism function	Ali Jamali & Malikeh Nabaei	October 2021
2	Equine-patient interaction development through inclusion of disease and common therapeutic exercise	Fateme Mirakhorlou & Malikeh Nabaei	April 2021
3	modeling of baroreflex mechanism in human cardiovascular system	Reza Savabi & Malikeh Nabaei	May 2019
4	design and constructing the experimental setup of baroreflex mechanism in human cardiovascular system	Sami Farajollahi & Malikeh Nabaei	May 2019
5	Development Of A Gravid Uterus Model For The Study At High Speed Impacts	Anis Rasekh & Malikeh Nabaei	February 2019
6	Computational Modeling of Emboli in the Circle of Willis and Prediction of Stroke	Hossein Darvish & Malikeh Nabaei	February 2018
7	Experimental characterization of the mechanical properties and analysis of the structure of the aortic valve tissue	Farnaz Farzarian & Malikeh Nabaei	February 2018
8	Simulation of Right Ventricle Flow Based on Echocardiography Images	Seyed Babak Peighambari & Malikeh Nabaei	February 2018
9	Numerical modeling of Mitral Valve considering interaction with Left Ventricle and Atrium	Mohammad Shokrian Amiri & Malikeh Nabaei	February 2018
10	numerical modeling of nano-cryosurgery of tumors including noticeable vascular network	Mehrdad Karimi & Malikeh Nabaei	February 2017

11	Numerical simulation of mitral valve prolapsed	Seyedvahid Khodaei & Malikeh Nabaei	October 2015
12	Numerical modeling of auto-regulation in a cerebral artery	Saeed Siri & Malikeh Nabaei	October 2015

Journal Papers

Portal Records

- 1 Hossein Darvish, Nasser Fatouree, Malikeh Nabaei, "Numerical investigation of perfusion rates in the circle of Willis in different anatomical variations and ischemic stroke", PHYSICS OF FLUIDS, April 2021 Vol. 33, Num. 4, Page 1-14, April 2021,
- 2 Shayan Nazemian, Malikeh Nabaei, "Numerical investigation of the effect of vascular network complexity on the efficiency of cryosurgery of a liver tumor", INTERNATIONAL JOURNAL OF THERMAL SCIENCES, July 2020 Vol. 158, Num. 0, Page 1-11, July 2020,
- 3 Reza Savabi, Malikeh Nabaei, Sami Farajollahi, Nasser Fatouree, "Fluid structure interaction modeling of aortic arch and carotid bifurcation as the location of baroreceptors", INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, October 2019 Vol. 165, Num. 1, Page 0-0, October 2019,
- 4 Saeed Siri, Malikeh Nabaei, Nasser Fatouree, "Multiscale Modeling of Endothelium Derived Wall Shear Stress Regulation in Common Carotid Artery", JOURNAL OF MECHANICS, July 2019 Vol. 0, Num. 0, Page 0-0, July 2019,
- 5 Nasser Fatouree, Zahra Niknejad, Malikeh Nabaei, "Numerical Evaluation of the Effect of Percentage and Location of Stenosis on the Hemodynamic Bifurcation of the Left Coronary Artery", Modares Mechanical Engineering, February 2019 Vol. 19, Num. 3, Page 743-752, February 2019,
- 6 Alireza Rezvani Sharif, Malikeh Nabaei, "Effect of Pullback Speed and the Distance between the Skin and Vein on the Performance of Endovenous Laser Treatment by Numerical Simulation", Iranian Journal of Medical Physics, October 2018 Vol. 15, Num. 4, Page 277-284, October 2018,
- 7 Malikeh Nabaei, Mehrdad Karimi, "Numerical investigation of the effect of vessel size and distance on the cryosurgery of an adjacent tumor", JOURNAL OF THERMAL BIOLOGY, August 2018 Vol. 77, Num. 1, Page 45-54, August 2018,
- 8 Aisa Rassoli, Malikeh Nabaei, Nasser Fatouree, Ghaemeh Nabaei, "Numerical modeling of the brain hypothermia by cooling the cerebrospinal fluid", , April 2017 Vol. 75, Num. 1, Page 31-38, April 2017,
- 9 Shohreh Azadi, Malikeh Nabaei, "Numerical simulation of two methods of breast fibroadenoma thermotherapy: laser interstitial thermotherapy and radiofrequency ablation", , March 2017 Vol. 46, Num. 4, Page 1-7, March 2017,
- 10 Seyedvahid Khodaei, Nasser Fatouree, Malikeh Nabaei, "Numerical simulation of mitral valve prolapse considering the effect of left ventricle", MATHEMATICAL BIOSCIENCES, December 2016 Vol. 285, Num. 0, Page 75-80, December 2016,
- 11 Saeed Siri, Malikeh Nabaei, Nasser Fatouree, "Numerical modeling of cerebral autoregulation in human common carotid artery", , November 2015 Vol. 9, Num. 3, Page 229-241, November 2015,
- 12 Malikeh Nabaei, Nasser Fatouree, "A 3D MODEL FOR MURAL-CELL-MEDIATED DESTRUCTIVE REMODELING DURING EARLY DEVELOPMENT OF A CEREBRAL ANEURYSM", JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, October 2014 Vol. 15, Num. 3, Page 1-20, October 2014,
- 13 Malikeh Nabaei, Nasser Fatouree, "Microstructural modelling of cerebral aneurysm evolution through effective stress mediated destructive remodelling", JOURNAL OF THEORETICAL BIOLOGY, August 2014 Vol. 354, Num. 1, Page 60-71, August 2014,







Conference Papers

Portal Records

- 1 Seyed Babak Peighambari, Nasser Fatouree, Malikeh Nabaei, Milad Tavakolian, "Computational Modeling of the Right Ventricular Flow Based on 2D Speckle-Tracking Echocardiography ", 27th National and 5th International Iranian Conference of Biomedical Engineering, November 2020
- 2 Mahsa Mokhlesabadi, Malikeh Nabaei, "Targeted drug delivery modeling in hepatic artery for radio-embolization of liver tumor ", 4th international and 26th national conference on biomedical engineering, November 2019
- 3 Hossein Darvish, Nasser Fatouree, Malikeh Nabaei, "Numerical simulation of a clot occlusion in the circle of Willis ", 4th international and 26th national conference on biomedical engineering, November 2019
- 4 Zahra Taheri, Nasser Fatouree, Malikeh Nabaei, Effat Soleimani, "Numerical Modeling and Measurement of the Effect of Oral Nitroglycerin on Carotid Artery Dilatation ", 3rd international and 25th Iranian Conference on Biomedical Engineering, November 2018
- 5 Mohammad Shokrian Amiri, Nasser Fatouree, Malikeh Nabaei, "Fluid-structure interaction simulation of mitral valve during left heart filling ", 2nd international and 24th national conference on biomedical engineering, November 2017
- 6 Mohammad Shokrian Amiri, Nasser Fatouree, Malikeh Nabaei, "Fluid-structure Interaction Simulation of Mitral Valve During Left Heart Filling ", 24th Iranian Conference on Biomedical Engineering and 2017 2nd International Iranian Conference on Biomedical Engineering (ICBME), November 2017
- 7 Reza Savabi, Sami Farajollahi, Malikeh Nabaei, Nasser Fatouree, "numerical analysis of hemodynamics in aortic arc and carotid bifurcation as the location of baroreceptors ", 2nd international and 24th national conference on biomedical engineering, November 2017
- 8 Reza Savabi, Sami Farajollahi, Malikeh Nabaei, Nasser Fatouree, "Numerical Analysis of Hemodynamic in Aortic Arch and Carotid Bifurcation as the Location of Baroreceptors ", 24th Iranian Conference on Biomedical Engineering and 2017 2nd International Iranian Conference on Biomedical Engineering (ICBME), November 2017
- 9 Mehrdad Karimi, Malikeh Nabaei, Hamed Khosravi Bizhaem, "numerical investigation of the effect of blood vessel position on the ablation of the liver cancerous tissue in cryosurgery ", 25th Annual International Mechanical Engineering Conference, May 2017
- 10 Seyedvahid Khodaei, Abbas Nasiraei Moghaddam, Nasser Fatouree, Malikeh Nabaei, "Finite element simulation of mitral valve prolapse with anatomic geometry ", 24th Annual International Conference on Mechanical Engineering-ISME2016, April 2016
- 11 Seyedvahid Khodaei, Malikeh Nabaei, "A comparison of temperature profile between skin types in laser hair removal ", 24th Annual International Conference on Mechanical Engineering-ISME2016, April 2016
- 12 Alireza Rezvani Sharif, Malikeh Nabaei, "numerical simulation of endovenous laser treatment of saphenous vein varicose ", 2nd conference on novel approach of biomedical engineering in cardiovascular diseases, January 2016
- 13 Saeed Siri, Malikeh Nabaei, Nasser Fatouree, "numerical modeling of auto regulation in human common carotid artery ", 2nd conference on novel approach of biomedical engineering in cardiovascular diseases, January 2016
- 14 Seyedvahid Khodaei, Abbas Nasiraei Moghaddam, Nasser Fatouree, Malikeh Nabaei, Saeed Siri, Keyvan Safaei Baghbaderani, "FEM Analysis of opening phase of anatomic mitral valve ", 23th international conference of mechanical engineering, ISME2015, May 2015
- 15 Saeed Siri, Malikeh Nabaei, Abbas Nasiraei Moghaddam, Nasser Fatouree, Seyedvahid Khodaei, Navid Soltani Hafshejani, "effect of baroreflex mechanism on pressure wave amplitude in human vascular network ", 23th international conference of mechanical engineering, ISME2015, May 2015
- 16 Nasim Rezaee, Malikeh Nabaei, "a biomechanical overview on stent design ", the first conference on novel approaches of biomedical eng in cardiovascular diseases, January 2015

Taught Courses

#	Course title	Description	Headlines	Date
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1	Heat Trans. & Mass Trans. in Bio. Sys.	In this course students will be familiar with advanced topics in heat and mass transfer and their application in biological systems and also will get involved with the latest research topics in this field in their final project.		Fall 2021
2	Heat & Mass Transfer	students become familiar to the heat and mass transfer phenomena and mechanisms (learning the physical concepts and the governing equations) and gain the ability to use equations of heat and mass transfer to biological phenomena and analyze their pr		Fall 2021
3	Med Physics.	students will learn the physical concepts, theories and methods in human activities in health and disease and medical and healthcare applications.		Spring 2021
4	Fund. of Heat & Mass Transfer in Biological Systems	students become familiar to the heat and mass transfer phenomena and mechanisms (learning the physical concepts and the governing equations) and gain the ability to use equations of heat and mass transfer to biological phenomena and analyze their pr		Spring 2021
5	Heat Trans. & Mass Trans. in Bio. Sys.	In this course students will be familiar with advanced topics in heat and mass transfer and their application in biological systems and also will get involved with the latest research topics in this field in their final project.		Fall 2020
6	Fund. of Heat & Mass Transfer in Biological Systems	students become familiar to the heat and mass transfer phenomena and mechanisms (learning the physical concepts and the governing equations) and gain the ability to use equations of heat and mass transfer to biological phenomena and analyze their pr		Fall 2020