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Ph.D. in Biomechanics-Biomedical Engineering

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Education

Ph.D, "Biomedical Engineering- Biomechanics", 2007

Biomedical Engineering Department, Amirkabir University, Tehran, Iran.

M.SC., " Biomedical Engineering- Biomechanics", 1999

Biomedical Engineering Department, Amirkabir University, Tehran, Iran.

B.SC., "Mechanical Engineering", 1997

Mechanical Engineering Department, Urmia University, Urmia, Iran.

Diploma, "Mathematics & Physics", 1993

Parvin High School, Tabriz, Iran.

Work Experience

1. Dean of the Biomedical Engineering Department at Sahand University of Technology, 2022-Now
2. Conference chair, ICBME2025, 19-20 November 2025, Sahand University of Technology, Tabriz, Iran
3. Academic staff of Sahand University of Technology, Professor, 2021-Now
4. Special Issue Editor for Heat and Mass Transfer Phenomena in Biological Systems in IJBME , 2024-Now
5. Academic staff of Sahand University of Technology, Associate Professor, 2013-2021
6. Member of the Specialized Commission for Biomedical Engineering at the Ministry of Science, Research and Technology of Iran, 2018-2023.

7. Member of the Board of Directors of Iranian Society for Biomedical Engineering, 2022-Now
8. Academic staff of Sahand University of Technology (Assistant Professor 2007-2013)
9. Member of Scientific committee of ICBME, 2007-Now
10. Member of Iranian Society for Biomedical Engineering, 1999-Now
11. Member of Iranian society of Official experts in medical devices, 2008-Now
12. Researcher in IROST (Iranian Research Organization for Science & Technology), 1999-2004
 - Design & Manufacturing of heat exchanger of IROST 2001D Dialysis machine)
 - Design & Manufacturing of ultrafiltration control system of IROST 2001D Dialysis machine
 - Research & mechanical design of peritoneal Dialysis machine

Innovative Products

- Design and prototyping of a ventricular assist pump
- Design and construction of a pulsatile heart simulator pump

Awards

- Best Researcher of the Faculty, ۲۰۲۱
- Outstanding Teaching Professor of the Faculty, ۲۰۱۲
- Top Student of the Master's Program, 1999
- Top Student of the Bachelor's Program, 1997

Teaching

1. Bioinstrumentation
2. Biofluid Mechanics
3. Bio Heat and Mass Transport in Biological Systems
4. Artificial Organs
5. Fluid Mechanics
6. Basic Rehabilitation & Devices

Interests

1. Cardiovascular Biomechanics
2. Fluid-Solid Interaction in Biological Systems

3. Modeling And Design of Ventricular Assist Devices
4. Wave Propagation in Blood Vessels
5. Remodeling of Blood Vessels
6. Modeling Biofluid Flows
7. Modeling of Cancer Growth
8. Cell Mechanics
9. Rehabilitation

Projects

1. Design and Simulation of a Centrifugal Micropump, Ph.D. Project.
2. Hemodynamic Analysis of Diastolic Augmentation Pumping function by Fluid Structure Interaction Method, Ph.D. Project
3. Development and analysis of mathematical models of brain tumors growth considering the heterogeneity of the tissue based on,"Ph.D. Project"
4. Numerical investigation of dissociation of captured leukocyte from macroscopic and microscopic points of view ,"Ph.D. Project"
5. Studying the effect of different treatments on glioma cell growth model in different regions of the human brain medical images Member of Iranian Society for Biomedical Engineering"MS.C. project"
6. Numerical Simulation of Osteocyte Cell in Response to Mechanical Loadings with considering of Lacunar-Canalicular Interstitial Fluid Flow. "MS.C. project"
7. Biological Cell Quantitative Failure Analysis under Transient Mechanical Stresses: Setting Success Criteria and Quantification of Reliability Index of Cellular Function. "MS.C. project"
8. Computational Study Of Cell Structure Behavior In A 3d Modeling With Subcellular Organelles Under Mechanical Loading"MS.C. project"

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Publication

Journal papers:

- 1- Integrating immunohistochemical biomarkers into patient-specific reaction–diffusion models of glioblastoma growth,Navid Moshtaghi Kashanian, Hanieh Niroomand-Oscuii, Shahriar Dabiri, Narges Meghdadi, Masoud Eslami, Simin Soltani Nejad, Rana Eftekhari Vaghefi, Mahsa Faramarzpour,2026, Physics in Medicine & Biology,71, 13,135014.
- 2- Investigation of fetal right ventricular contraction using pressure driven fluid structure interaction modeling, Hanieh Niroomand-Oscuii, Ali Moradzadeh, Behrouz Jafarzadeh, Saber Abdollahzadeh Bonab, Results in Engineering, Volume 30, 2026, 110178, <https://doi.org/10.1016/j.rineng.2026.110178>.
- 3- Sahebi-Kuzehkanan, R., Niroomand-Oscuii, H., Badri Ghavifekr, H. *et al.* Multiobjective blood pump impeller optimization with three response surface methods and prototype stator casting for an integrated motor pump. *Sci Rep* **16**, 25987 (2026). <https://doi.org/10.1038/s41598-026-55329-8>.
- 4- Ayati Najafabadi, Seyed M., Hanieh Niroomand-Oscuii, and Alireza Hashemi Oskouei. 2026. " From Pressure Patterns to Personalized Insoles: A Systematic Review of Demographic

- Influences on Plantar Pressure,” Journal of Foot and Ankle Research: e70120. <https://doi.org/10.1002/jfa2.70120>.
- 5- Optimal impeller design for an intravascular ventricular assist pump: a CFD-based study, Amir Alaei-Baher, Hanieh Niroomand-Oscuii, Reza Sahebi-Kuzeh Kanan, and Erfan Namaki, 2026, Progress in Computational Fluid Dynamics, an International Journal, Vol. 26, No. 2, pp 113-124, <https://doi.org/10.1504/PCFD.2026.152132>.
 - 6- Design and Simulation of Blood Flow in a Left Ventricular Assist Centrifugal Pump with Single and Double Volute Casings, Nasser Alizadeh, Hanieh Niroomand-Oscuii, Farzan Ghalichi, Iranian Journal of Biomedical Engineering (IJBME) 19(3): 225–238, <https://doi.org/10.22041/ijbme.2025.2063734.1987>.
 - 7- Reza Sahebi-Kuzeh Kanan, Hanieh Niroomand-Oscuii, Habib Badri Ghavifekr, Farzan Ghalichi, Kohyar Yazdanpanah-Ardakani, Numerical Optimization of the Hydraulic and Hemolytic Performance of a Centrifugal Ventricular Assist Device Based on Impeller Flow Passage and Outlet Geometry, Journal of Engineering, 2025, 5387163, 20 pages, 2025. <https://doi.org/10.1155/je/5387163>.
 - 8- F. Yaghoobian, F. Ghalichi, H. Niroomand-Oscuii, Impact of pusher and puller bacterial suspensions on enhanced convective drug delivery into porous tissue, Physics of Fluids 36, 111913 (2024).
 - 9- Kohyar Yazdanpanah-Ardakani, Hanieh Niroomand-Oscuii, Reza Sahebi-Kuzeh Kanan & Nasim Shokri, ”Optimization of a centrifugal blood pump designed using an industrial method through experimental and numerical study” Scientific Reports | (2024) 14:7443.
 - 10- Gholamreza Mohammadi Khounsaraki, Mehdi Movahedi, Hanieh Niroomand Oscuii, Arkady Voloshin, Analysis of the Adherent Cell Response to the Substrate Stiffness Using Tensegrity, Annals of Biomedical Engineering, 2024, Volume 52, Number 5, Page 12-13.
 - 11- Mohammad Salar Ghasemi Nasab , Hanieh Niroomand-Oscuii * , Hossein Bazmara , Majid Soltani, Multi-scale model of lumen formation via inverse membrane blebbing mechanism during sprouting angiogenesis process, Journal of Theoretical Biology 556, 111312, 2023.
 - 12- Nima Sarrafzadeh-Ghadimi, Farzan Ghalichi, Hanieh Niroomand-Oscuii, Nasser Fatouraee, Design of an aortic polymeric valve with asymmetric leaflets and evaluation of its performance by finite element method, [Computers in Biology and Medicine Volume 145](#), June 2022, 105440.
 - 13- N Sarrafzadeh Ghadimi, F Ghalichi, H Niroomand-Oscuii, N Fatouraee, Study of Leaflet Radial Curve Effect on Polymeric Valve Performance By Finite Element Method, 2022, Iranian Journal of Biomedical Engineering 15 (4), 351-360.
 - 14- Mohammad Salar Ghasemi Nasab , Hanieh Niroomand-Oscuii * , Hossein Bazmara , Majid Soltani, Morphogenetic Mechanisms of Endothelial Cells During Lumen Formation in Sprouting Angiogenesis, Multidisciplinary Cancer Investigation, April 2022, Volume 6, Issue 2; DOI: 10.30699/mci.6.2.523-1.
 - 15- EA Farokhi, H Niroomand-Oscuii, K Yazdanpanah, Investigation the effect of geometry and position of polymeric heart valves on hemodynamic with fluid-structure interaction numerical method, 2021, Medical Engineering & Physics 97, 10-17.
 - 16- Ghollam-Reza Moshtaghi-Kashanian, Navid Moshtaghi-Kashanian, Mohammad Hassan Nejad, Nima Moshtaghi-Kashanian, Hanieh Niroomand Oscuii, Reduction of Oxygen Saturation and Increase of Heart Rate in Hospital Workers Wearing Face Mask During Routine Shift, Journal of Research in Applied and Basic Medical Sciences, Volume 7, Issue 1 (3-2021)
 - 17- Kohyar Yazdanpanh-Ardakani And Hanieh Niroomand-Oscuii, Computational Study On The Performance Of A Centrifugal Lvad With The Impeller Designed By Industrial Method: Proposing Simple-To-Manufacture Lvad’s Impellers, Journal Of Mechanics In Medicine And Biology, 2021 21:02.
 - 18- Shila Alizadehghobadi, Hasan Biglari, Hanieh Niroomand-Oscuii & Meisam H. Matin, Numerical study of hemodynamics in a complete coronary bypass with venous and arterial

- grafts and different degrees of stenosis, *Computer Methods in Biomechanics and Biomedical Engineering*, Volume 24, 2021 - Issue 8 Pages 883-896.
- 19- Gholamreza Mohammadi Khunsaraki, Hanieh Niroomand-Oscuii, and Arkady Voloshin , Study of the Mechanical Behavior of Subcellular Organelles Using a 3D Finite Element Model of the Tensegrity Structure, *Appl. Sci.* 2021, 11(1), 249; <https://doi.org/10.3390/app11010249>
 - 20- Seyed Hamidreza Attaran; Hanieh Niroomand-Oscuii, Reflection behavior of the porous tube boundary condition for FSI simulations of the truncated vascular network, *Progress in Computational Fluid Dynamics*, 2020,20
 - 21- رضا صاحبی (د. ارشد); اسکویی هانیه نیرومند (راهنما); کپیار یزدانپناه- فصلنامه علمی پژوهشی مهندسی پزشکی زیستی , ۲۰۲۰ ۱۳
 - 22- Yazdanpanah-Ardakani K, Niroomand-Oskui H. Designing Centrifugal Impeller of a Left Ventricular Assist Pump using Point-by-Point Method. *Modares Mechanical Engineering*. 20 (2) :371-380, 2020.
 - 23- PejmanShojaee, **HaniehNiroomand-Oscuii**, A comparative study of drug transport between the homogeneous and vasculature solid tumor, December 2019, *Journal of Porous Media*, DOI:10.1615/JPorMedia.2019026047.
 - 24- PejmanShojaee, **HaniehNiroomand-Oscuii**, MostafaSefidgar, LidaAlinezhad, Effect of nanoparticle size, magnetic intensity, and tumor distance on the distribution of the magnetic nanoparticles in a heterogeneous tumor microenvironment, <https://doi.org/10.1016/j.jmmm.2019.166089>.
 - 25- Nahid Jafarzadeh, **Hanieh Niroomand-Oscuii**, Numerical simulation of mucous layer formation effects on oxygen transfer phenomena from the respiratory membrane in pulmonary diseases, *Biomedical Physics & Engineering Express*, Volume 5, Number 6, 2019.
 - 26- Pejman Shojaee, **Hanieh Niroomand-Oscuii**, CFD analysis of drug uptake and elimination through vascularized cancerous tissue, *Biomedical Physics & Engineering Express*, Volume 5, Number 3, 2019.
 - 27- Behrouz Jafarzadeh, Hanieh Niroomand-Oscuii, Farzan Ghalichi, Design and onstruction of Mock Blood Circulatory System with Capability to Simulate Physiological Pulsatile Flow and Pressure in Aorta, DOI: 10.22041/IJBME.2018.90501.1382.
 - 28- Seyed Hamidreza Attaran, **Hanieh Niroomand-Oscuii**, Farzan Ghalichi, A novel, simple 3D/2D outflow boundary model for blood flow simulations in compliant arteries, *Computers & Fluids*, Volume 174, Pages 229-240, 2018.
 - 29- Nargess Meghdadi,M. Soltani, **Hanieh Niroomand-Oscuii**, Nooshin Yamani, Personalized image-based tumor growth prediction in a convection–diffusion–reaction model, *Acta Neurologica Belgica*, Published online 17 July 2018.
 - 30- Nargess Meghdadi, **Hanieh Niroomand-Oscuii**, Madjid Soltani, Investigation of mass effect and reaction terms on the prediction of brain tumor growth by using mathematical model based on MRIs, *Modares Mechanical Engineering*, Vol. 18, No.04 9, pp. 71-78, 2018(in Persian).
 - 31- Seyed Hamidreza Attaran, **Hanieh Niroomand-oscuii** , Farzan Ghalichi, A novel, simple 3D/2D outflow boundary model for blood flow simulations in compliant arteries, *Computers and Fluids* 0 0 0 (2018) 1–12.
 - 32- Navid Moshtaghi-Kashanian, **Hanieh Niroomand-Oscuii**, Nargess Meghdadi, Simulating glioblastoma growth consisting both visible and invisible parts of the tumor using diffusion–reaction model followed by resection and radiotherapy, *Acta Neurologica Belgica*, Published online 05 June 2018.
 - 33- Hessam Noori-Dokht, **Hanieh Niroomand-Oscuii**, Davood Jalali-Vahid and Zhongmin Jin, Finite element analysis of elastohydrodynamic lubrication in an artificial hip joint under squeeze film motion using fluid–structure interaction method, *Proc IMechE Part J: J Engineering Tribology*2017, 231 (9) 1171-1183.

- 34- N. Meghdadi, **H. Niroomand-Oscuii**, M. Soltani, F. Ghalichi, M. Pourgolmohammad, Brain tumor growth simulation: model validation through uncertainty quantification, *Int J Syst Assur Eng Manag*, 2017, Volume 8, [Issue 3](#), pp 655–662.
- 35- Hajar Hassani-Ardekani, Hanieh Niroomand-Oscuii, Ehsan Nikbin and Amir Shamloo, Molecular dynamics simulation of the dissociation mechanism of P-selectin from PSGL-1, *Journal of Theoretical and Computational Chemistry*, Vol. 16, No. 4 (2017) 1750035 (13 pages).
- 36- N. Meghdadi, M. Soltani, **H. Niroomand-Oscuii**, F. Ghalichi, Image Based Modeling of Tumor Growth: A Review 2016, *Australas Phys Eng Sci Med* (2016) 39:601–613.
- 37- Amin Joukar, **Hanieh Niroomand-Oscuii**, Farzan Ghalichi, Numerical simulation of osteocyte cell in response to directional mechanical loadings and mechanotransduction analysis: Considering lacunar–canalicular interstitial fluid flow, computer methods and programs in biomedicine 133 (2016) 133–141.
- 38- Erfan Nammakie, **Hanieh Niroomand-Oscuii**, Mojtaba Koochaki, Farzan Ghalichi, Computational fluid dynamics-based study of possibility of Generating pulsatile blood flow via a continuous-flow VAD, *Med Biol Eng Comput*, 2017 Jan;55(1):167-178.
- 39- H. Hassani Ardekani, **H. Niroomand Oscuii**, Investigation of the mechanism of dissociation of P-selectin/PSGL-1 complex under stretching with molecular dynamics method, *Modares Mechanical Engineering*, Vol. 99, No. 9, pp. 9-99, 9999 (in Persian) Accepted 03 May 2016.
- 40- Mohammad Sadegh Firoozan, **Hanieh Niroomand-Oscuii**, Maryam Tajabadi, Hemodynamic and structural study of various bioprosthetic aortic heart valve, *Biomedical Engineering: Applications, Basis and Communications*, Vol. 28, No. 1 (2016) 1650008 (15 pages).
- 41- Hajar Hassani-Ardekani, **Hanieh Niroomand-Oscuii**, Damir Khismatullin, Computational Determination Of The Detachment Time Of The Leukocyte Under Different Kinetic Dissociation Rate Parameters, *Journal of Biological Systems*, Vol. 23, No. 3 (2015) 457–469.
- 42- N. Meghdadi, **H. Niroomand-Oscuii**, Numerical Simulation of the Effect of Venous Needle's Flow Rate and Angle on Flow Parameters of a Hemodialysis Graft, *Biomedical Engineering: Applications, Basis and Communications*, Vol. 27, No. 5 (2015) 1550048 (9 pages).
- 43- Erfan Nammakie, **Hanieh Niroomand-Oscuii**, Mojtaba Koochaki, Farzan Ghalichi, Numerical Study of the Performance of a Blood Pump by Comparison of Three Different Impeller Blade Geometries to Improve Efficiency and Decrease Blood Damages, *Iranian Journal of Biomedical Engineering*, number 9(2015) 133-142, www.ijbme.org (in person).
- 44- **Hanieh Niroomand-Oscuii**, Mojtaba Koochaki and Erfan Nammakie, An Innovative Method For Generating Pulsatile Blood Flow Via An Axial Ventricular Assist Device, *Biomedical Engineering: Applications, Basis And Communications*, Vol. 27, No. 3 (2015) 1550026 (9 pages).
- 45- Amin Joukar, Erfan Nammakie, **Hanieh Niroomand-Oscuii**, A comparative study of thermal effects of 3 types of laser in eye: 3D simulation with bioheat equation, *Journal of Thermal Biology* 49-50 (2015) 74–81.
- 46- Mohammad Sarmast, **Hanieh Niroomand-oscuii**, Farzan Ghalichi, Ph.D, Ehsan Samiei, Evaluation of the hemodynamics in straight 6-mm and tapered 6- to 8-mm grafts as upper arm hemodialysis vascular access, *Med Biol Eng Comput* (2014) 52:797-811.
- 47- **Hanieh Niroomand-Oscuii**, Nargess Meghdadi, Numerical simulation of the effect of venous needle's flow on flow parameters of Hemodialysis graft and its hemodynamic consequences, *Biomedical Engineering: Applications, Basis and Communications*, Vol. 26, No. 5 (2014) 1450057 (7 pages)
- 48- Mohsen Tarahomi Ardakani, **Hanieh Niroomand Oscuii**, Farzan Ghalichi, The influence of using the needle adapter to reduce the biomechanical risk factors within hemodialysis arteriovenous grafts, *Journal of Mechanics in Medicine and Biology*, 2013, Accepted, Nov 27, 2013./

- 49- Zahra Hashemi Shahraki , **Hanieh Niroomand-oscuii**, Numerical investigation of three patterns of motion in an electromagnetic pulsatile VAD, ASAIO Journal, 2014 , Accepted, Jan 20, 2014.
- 50- Mojtaba Koochaki & **Hanieh Niroomand-Oscuii** , A new design and computational fluid dynamics study of an implantable axial blood pump, Australas Phys Eng Sci Med 2013, DOI 10.1007/s13246-013-0225-x
- ۵۱- حامد خالص، **هانیه نیرومند اسکویی**، فرزانه قالیچی ، بررسی بازسازی دیواره شریان الاستیک تحت تاثیر بارهای استاتیکی و دینامیکی، مجله مهندسی پزشکی زیستی، شماره ۲، دوره پنجم، تابستان ۱۳۹۰، ۱۵۰-۱۴۳
- 52- Kohyar Yazdanpanh-ardakani, **Hanieh Niroomand-Oscuii**, New approach in modeling peristaltic transport of non-Newtonian fluid, JMMB, 2013, 35:413-422.
- 53- Hajar Hassani-Ardekani, Farzan Ghalichi, **Hanieh Niroomand-Oscuii**, Mehdi Farhoudi & Mohammad Kazem Tarzmani, Comparison of blood flow velocity through the internal carotid artery based on Doppler ultrasound and numerical simulation, Australas Phys Eng Sci Med (2013) 35:413-422.
- ۵۴- حامد خالص، **هانیه نیرومند اسکویی**، فرزانه قالیچی، مقایسه الگوهای توزیع تنش در بازسازی شریان الاستیک با استفاده از روش برهم کنش سیال-جامد، مجله مهندسی پزشکی زیستی، دوره پنجم، شماره ۱، بهار ۱۳۹۰، ۶۷-۷۸.
- ۵۵- **هانیه نیرومند اسکویی**، فرزانه قالیچی، محمد تفضلی شادپور، بررسی تغییرات خواص بیومکانیکی بازسازی شریان براکیال با تغییر سن با استفاده از روش اندرکنش سیال-جامد، فصلنامه مهندسی پزشکی، ویژه نامه بیومکانیک، دوره دوم، شماره اول، بهار ۱۳۸۷، صفحه ۱-۸.
- ۵۶- **هانیه نیرومند اسکویی**، محمد تفضلی شادپور، فرزانه قالیچی، تاثیر الاستیسیته شریان بر بارگذاری دو محوری سلول‌های اندوتلیال، مجله علمی و پژوهشی دانشگاه امیرکبیر، سال نوزدهم- شماره آ-۶۸ (مهندسی پزشکی)- بهار و تابستان ۱۳۸۷ - صفحات ۳۲-۲۵.
- ۵۷- **هانیه نیرومند اسکویی**، محمد تفضلی شادپور، فرزانه قالیچی، ارزیابی کمی ویژگی‌های جریان در شریان الاستیک با مدل اندرکنش سیال-جامد با استفاده از شکل موج فشار نوسانی واقعی، مجله دانشکده فنی دانشگاه تبریز، جلد ۳۵، شماره ۲ (مهندسی مکانیک)، بهار ۱۳۸۷؛ صفحه ۵۱-۶۲.
- ۵۸- **هانیه نیرومند اسکویی**، محمد تفضلی شادپور، فرزانه قالیچی، مطالعه اثر الاستیسیته شریان بر الگوی تنش برشی دیواره و پاسخ سلول‌های اندوتلیال، مجله دانشگاه علوم پزشکی تبریز، دوره ۳۰ شماره ۲ تابستان ۱۳۸۷ صفحات ۱۳۲-۱۲۷.
- 59- **H. Niroomand oscuii**, M. Tafazzoli Shadpour and Farzan Ghalichi, Biomechanical Analysis of Wall Remodeling in Elastic Arteries with Application of Fluid-Solid Interaction Methods, Journal of Mechanics in Medicine and Biology, Vol. 7, No. 4 (2007) 433-447.

Conference papers:

- 1- N. Alizadeh, H. Niroomand-Oscuii and F. Ghalichi, "Impact of Impeller Blade Number on the Hemodynamic Performance of Specially Designed Mini VAD," 2025 32nd National and 10th International Iranian Conference on Biomedical Engineering (ICBME), Tabriz, Iran, Islamic Republic of, 2025, pp. 1484-1491, doi: 10.1109/ICBME68496.2025.11392418.
- 2- R. S. -K. Kanan, H. Niroomand-Oscuii, H. B. Ghavifekr and F. Ghalichi, "Multi-Objective Optimization of the Impeller of a Mini Blood Pump: Balancing Outlet Pressure and Scalar Shear Stress," 2025 32nd Curriculum Vitae Niroomand-Oscuii, Hanieh 7 7 National and 10th International Iranian Conference on Biomedical Engineering (ICBME), Tabriz, Iran, Islamic Republic of, 2025, pp. 297-304, doi: 10.1109/ICBME68496.2025.11392478.
- 3- Z. R. Samani, H. Niroomand-Oscuii, M. Niroombakhsh and E. A. Farokhi, "FSI Modeling of Osteocyte Mechanotransduction Under Dynamic Loading," 2025 32nd National and 10th International Iranian Conference on Biomedical Engineering (ICBME), Tabriz, Iran, Islamic Republic of, 2025, pp. 349- 356, doi: 10.1109/ICBME68496.2025.11392384.

- ۴- سیده کیمیا مرتضوی فارسانی* هانیه نیرومند اسکویی* بهروز جعفرزاده* محمدحسن فردوسی، شبیه سازی عددی انقباض بطن راست قلب جنین انسان به روش تعامل سیال و جامد، سی و دومین کنفرانس بین المللی مهندسی پزشکی ایران، آبان ۱۴۰۴، دانشگاه صنعتی سهند تبریز، تبریز، ایران
- 5- Nima Sarrafzadeh-Ghadimi, Farzan Ghalichi, Hanieh Niroomand-Oscuii, Nasser Fatouraei, Effect of Leaflets Radial and Circumferential Curves on Polymeric Aortic Valve Performance. A Finite Element Study, ۲۷th national and ۵th International Iranian Conference on Biomedical Engineering,
- ۶- غلامرضا محمدی خونسارکی، هانیه نیرومند اسکویی، مدل سازی رفتار اسکلت سلولی به کمک ساختارهای تنسگریتی شش و دوازده میله ای برای آزمایش AFM و بررسی سفتی داربست، اولین کنفرانس بین المللی دستاوردهای نوین پژوهشی در مکانیک، مکترونیک و بیومکانیک، خرداد ۹۵- دانشگاه امیر کبیر.
- 7- N. Meghdadi, H. Niroomand-Oscuii, M. Soltani, F. Ghalichi, M. Pourgolmohammad, Brain Tumor Growth Simulation: Model Validation through Uncertainty Quantification, IREC2016, 26-28 April 2016, Sahand University of Technology, Tabriz, Iran.
- ۸- سید حمید رضا عطاران، هانیه نیرومند اسکویی، بررسی اثر پارامترهای لوله، ۲۴ امین همایش سالانه بین المللی مهندسی مکانیک ایران، اردیبهشت ۹۵، یزد.
- 9- Hossein Bahreinizad, H. Niroomand-Oscuii, Numerical investigation of role of synovial fluid in a poroelastic model of natural human knee joint during walking, ICBME 2015, 25–27 November 2015, IROST, Tehran, Iran.
- ۱۰- غلامرضا محمدی خونسارکی، هانیه نیرومند اسکویی، محسن ربانی، مروری بر ساختارهای مکانیکی ارائه شده برای تخمین رفتار مکانیکی سلولهای زنده،
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