



دانشگاه صنعتی امیرکبیر  
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سوابق تحصیلی

# مقطع/رشته تحصیلی	دانشگاه محل تحصیل	شهر محل تحصیل	کشور محل تحصیل	تاریخ فارغ التحصیلی
1 کارشناسی، مهندسی مکانیک	دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران)	تهران	ایران	1388
2 کارشناسی ارشد، مهندسی مکانیک	دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران)	تهران	ایران	1390
3 دکتری، مهندسی مکانیک	دانشگاه صنعتی شریف	تهران	ایران	1396

علايق تحقيقاتی

# عنوان علاقمندی	تاریخ آغاز فعالیت
1 کنترل سیستم های هوشمند	1395
2 سیستم های هپتیکی، تله اپراتوری و واقعیت مجازی	1395
3 رباتیک پزشکی و توانبخشی	1400
4 طراحی سیستم های مکترونیک	1385
5 مدلسازی سیستم های دینامیکی	1385

مقالات ژورنال

- 1 1. Farshad Khadivar, Soroush Sadeghnejad, Hamed Moradi, Gholamreza Vossoughi, "Dynamic characterization and control of a parallel haptic interaction with an admittance type virtual environment", *Meccanica*, Vol. 55, Num. 159, Page pages435, 2020, January
- 2 Soroush Sadeghnejad, Yousef Taraz Jamshidi, Mojtaba Sadighi, "On the Low-Velocity Impact and Quasi-Static Indentation Studies of Nomex™ Honeycomb Composite Sandwich Panels", *AUT Journal of Mechanical Engineering*, Vol. 3, Num. 2, Page 243, 2019, October
- 3 Soroush Sadeghnejad, Nahid Elyasi, Farzam Farahmand, Gholamreza. Vossoughi and Seyed Mousa Sadr Hosseini, "Hyperelastic modeling of sino-nasal tissue for haptic neurosurgery simulation", *Transactions on Mechanical Engineering (B), International Journal of Science and Technology (Scientica Iranica)*, Vol. 27, Num. 3, Page 1266, 2020, June
- 4 Soroush Sadeghnejad, Farshad Khadivar, Ehsan Abdollahi, Hamed Moradi, Farzam Farahmand, Mousa Hosseini, Gholamreza Vossoughi, "Development of a virtual based haptic system for endoscopic sinus surgery training: a validation study", *The International Journal of Medical Robotics and Computer Assisted Surgery*, Vol. 15, Num. 16, Page e2039, 2019, September
- 5 Soroush Sadeghnejad, Farzam Farahmand, Gholamreza Vossoughi, Hamed Moradi, S.Mousa Sadr Hosseini, "Phenomenological Tissue Fracture Modelling for Endoscopic Sinus and Skull Base Surgery Training System Based on Experimental Data", *Medical Engineering & Physics*, Vol. 68, Num. , Page 85, 2019, June
- 6 Soroush Sadeghnejad, Yousef Taraz Jamshidi, Reza Mirzaeifar, Mojtaba Sadighi, "Modeling, characterization and parametric identification of low velocity impact behavior of time-dependent hyper-viscoelastic sandwich panels", *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, Vol. 233, Num. 4, Page , 2017, April
- 7 Soroush Sadeghnejad, Mojtaba Sadighi, Abdolreza Ohadi, "Numerical and Experimental Investigations of Sandwich Plates with Viscoelastic Core under Low-Velocity Impact", *Iranian Journal of Polymer Science and Technology (IJPST)*, Vol. 29, Num. 1, Page 55, 2016, May
- 8 Hamed Navabi, Soroush Sadeghnejad, Jacky Baltes, Sepehr Ramezani, "Position control of the Single Spherical Wheel Mobile Robot by Using the Fuzzy Sliding Mode Controller (FSMC)", *Advances in Fuzzy Systems*, Vol. 2017, Num. 1, Page 1, 2016,
- 9 Hamid Shahsavari, Soroush Sadeghnejad, Mojtaba Sadighi, "Parametric study of specific buckling load of cylindrical grid stiffened composite shells", *Advanced Science Letters*, Vol. 13, Num. 1, Page , 2012,

## مقالات کنفرانس

### داده های ثبت شده در پورتال

- 1 Youssef Taraz Jamshidi, Soroush Sadeghnejad, Mojtaba Sadighi, "Static and Dynamic Study of Sandwich Panels with Composite Skins and Nomex™ Honeycomb Core ", The 22nd Annual International Conference on Mechanical Engineering-ISME2014, April 2014
- 2 Soroush Sadeghnejad, Mojtaba Sadighi, "Theoretical and Experimental Static Behavior of Sandwich Structures with Viscoelastic Core ", The Bi-Annual International Conference on Experimental Solid Mechanics and Dynamics (X-Mech-2014), February 2014

## افتخارات و جوایز

تاریخ  
دریافت

# عناوین جوایز و افتخارات





- 1 دانشجوی بدون آزمون مقاطع کارشناسی ارشد و دکتری در دانشگاه های صنعتی امیرکبیر (پلی تکنیک تهران) و صنعتی شریف








- 2 رتبه اول دانش آموزان دانشکده مهندسی مکانیک، دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران)، مقطع کارشناسی
- 3 10% برتر دانش آموزان دانشکده مهندسی مکانیک دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران) در مقطع کارشناسی و کارشناسی ارشد
- 4 دریافت جایزه تحصیلی بنیاد ملی نخبگان در دوره دکتری دانشکده مهندسی مکانیک دانشگاه صنعتی شریف
- 5 دریافت جایزه پژوهش رباتیک و هوش مصنوعی از طرف فدراسیون جهانی ربوکاپ در سالهای 2015 و 2017

## فعالیت‌های اجرایی

#	عناوین فعالیت های اجرایی	توضیح / سازمان محل خدمت	تاریخ شروع	تاریخ خاتمه
1	رئیس پردیس بین الملل کیش	دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران)	1400	تاکنون
2	رئیس مرکز نوآوری دانشکده مهندسی پزشکی	دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران)	1399	تاکنون
3	رئیس اداره انجمن های علمی دانشجویی	دانشگاه صنعتی امیرکبیر (پلی تکنیک تهران)	1395	تاکنون
4	استاد مشاور اتحادیه انجمن های علمی دانشجویی رباتیک و مکترونیک	وزارت علوم، تحقیقات و فناوری	1397	تاکنون
5	رئیس انجمن رباتیک و هوش مصنوعی در ورزش	وزارت علوم، تحقیقات و فناوری	1396	تاکنون

## دروس ارائه شده

#	عنوان درس	توصیف درس	دوره سرفصل ها	دوره درسی
1	Rehabilitation Principles & Devices	In this course, we will attempt to provide the student with an overview of rehabilitation devices. Rehabilitation has been mostly based on physiology, pathology and analysis of sensory and motor dysfunctions. On the other hand, engineering has an imp		Spring 2022
2	Vibrations	Vibration is the part of the dynamics, which deals with the reciprocating motions of objects. Studying the behavior of objects and systems under vibration and controlling vibrations is one of the important goals of this science		Spring 2022
3	special Topics (Sense of Touch & Haptic Feedback in Medical Robotics)	This course will give students a broad overview of the topic of haptics applied to virtual reality, teleoperation, and physical human-robot interaction. Haptics is the study of touch: touch sensing, perception, cognition, and feedback. Study of the d		Fall 2021
4	Statics and Strength of Materials	Mechanics is the physical science which deals with the effects of forces on objects. This course teaches students how to apply the equilibrium of bodies under action of forces. Strength of materials, also called mechanics of materials, deals with the		Fall 2021

5	Rehabilitation Principles & Devices	In this course, we will attempt to provide the student with an overview of rehabilitation devices. Rehabilitation has been mostly based on physiology, pathology and analysis of sensory and motor dysfunctions. On the other hand, engineering has an imp		Fall 2021
6	Fundamentals of Mechanical Engineering Pre-Request (II)	Dynamics is a course in engineering mechanics which is concerned with the motion of bodies under the action of force. Vibration is a mechanical phenomenon whereby oscillations occur about an equilibrium point. A broad introduction to Newtonian dynami		Spring 2021
7	Fundament of Rehabilitation Inst.	In this course, we will attempt to provide the student with an overview of rehabilitation devices. Rehabilitation has been mostly based on physiology, pathology and analysis of sensory and motor dysfunctions. On the other hand, engineering has an imp		Spring 2021
8	Static & Strength of Mat.	Mechanics is the physical science which deals with the effects of forces on objects. This course teaches students how to apply the equilibrium of bodies under action of forces. Strength of materials, also called mechanics of materials, deals with the		Spring 2021
9	Dynamics	Dynamics is a course in engineering mechanics which is concerned with the motion of bodies under the action of forces. It will also help you interpret the movement of all moving objects we encounter in our daily lives. We will cover kinematics and ki		Spring 2021
10	Dynamics	Dynamics is a course in engineering mechanics which is concerned with the motion of bodies under the action of forces. It will also help you interpret the movement of all moving objects we encounter in our daily lives. We will cover kinematics and ki		Spring 2021
11	Special Topics (Robotic Surgery)	The course presents an overview of the field of medical and surgery robotics. For this purpose, a short review on the history of the field is presented and the development of different paradigms of the medical and surgery robotic is discussed. The		Spring 2021