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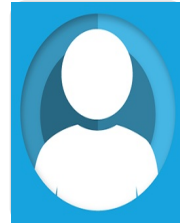
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سجاد جعفری

استادیار

دانشکده مهندسی پزشکی

گروه آموزشی بیوالکتریک



رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	ارائه یک روش جدید دینامیک پویای غیر خطی جهت حذف نویز همبافته در سیگنال حیاتی آشوبگونه شبیه سازی شده	نازنین زندی مهران و سجاد جعفری	فروردین 1401
2	هم آوایی در شبکه نورونی آشوبی با کوپلینگ چند گانه	شیرین پناهی و سجاد جعفری	مهر 1399
3	طراحی معیارهای مبتنی بر تعامل برای پیش بینی وقوع تغییرات کمی به کیفی (Biforcation) در سامانه های زیستی	فهیمة نظری مهر و سجاد جعفری	تیر 1397

پایان‌نامه‌های کارشناسی ارشد

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	بررسی اثر انواع تغییر پارامتر بر رسیدن شبکه های زیستی به نقطه بایفورکیشن و پیش بینی این نقاط به کمک نرخ بازگشت از اغتشاش	نسترن نویدمقدم و سجاد جعفری	خرداد 1401
2	کاهش بعد شبکه های پیچیده ی نورونی با حفظ ویژگی های غیرخطی رفتار جمعی آن	نفیسه ناصری و سجاد جعفری	خرداد 1401
3	پیش بینی هم آوایی انفجاری در شبکه‌های نوسانگرهای زیستی	بهاره کریمی راه جردی و سجاد جعفری	اسفند 1400
4	اندازه‌گیری میزان هم‌آوایی در شبکه‌ی مغزی کودکان دارای اختلال نقص‌توجه- بیش‌فعالی حین مشاهده هیجانانگیز چهره با استفاده از معیارهای غیرخطی	شیدا انصاری نسب و سجاد جعفری	شهریور 1400
5	بررسی اثر تاخیرهای جزئی بر شبکه های نورونی تحت تاثیر میدان مغناطیسی	محدثه شفیع کفرچاق و سجاد جعفری	تیر 1398

6	مدل‌سازی شبکه متعامل سلول‌های بتا با هدف ارائه روش درمانی برای بیماری دیابت	زهرا شهریار و سجاد جعفری	تیر 1398
7	بررسی نقش تعاملات مکانی در آشوب گونه سازی رفتار زمانی چرخه سلولی	یگانه شاوردی و سجاد جعفری	خرداد 1398
8	مدلسازی حرکت تناوبی دوپایی بر مبنای نظریه نقطه تعادل با استفاده از دینامیک سیستم های غیرخطی و مولدهای الگوهای مرکزی	علیرضا بهرامیان و سجاد جعفری	بهمن 1397
9	بررسی راه های ایجاد و کنترل امواج ماریچچ در شبکه های نورونی	زهرا رستمی و سجاد جعفری	تیر 1397
10	ارائه یک مدل آشوب گونه از دینامیک نفرون با در نظر گرفتن تعاملات مرتبط	جلال خوهک و سجاد جعفری	مهر 1396
11	کنترل هم‌نوایی در مدل شبکه عصبی نوسانی به منظور درمان بیماری پارکینسون	سیدعلی میرخرازی و سجاد جعفری	شهریور 1396
12	ارائه و بررسی مدل های آشوبی در رشد ویروس HIV	زینب ارام و سجاد جعفری	آبان 1395
13	ارائه یک مدل رفتاری از بیماری میگرن با در نظر گرفتن تعاملات عصبی مرتبط	عطیه بیانی و سجاد جعفری	مهر 1395
14	مدلسازی و بررسی تعاملات بین ژنها در شبکه ژنی	سیده ساناز حسینی و سجاد جعفری	شهریور 1395
15	ارائه مدلی رفتاری مبتنی بر تعاملات عصبی برای بیماری صرع	شیرین پناهی و سجاد جعفری	شهریور 1395
16	استفاده از الگوریتمهای تکاملی در تخمین پارامترهای مدل آشوبی نورون به کمک یک تابع هزینه جدید مبتنی بر قطع پوانکاره	علی عباسی ملکی و سجاد جعفری	خرداد 1395
17	استفاده از الگوریتمهای تکاملی در تخمین پارامترهای مدل آشوبی سرطان به کمک یک تابع هزینه جدید مبتنی بر قطع پوانکاره	امیرحسین عاملی و سجاد جعفری	اسفند 1394

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#	عنوان	نگارندگان/مترجمان	کشور ناشر	تاریخ نسخه انتشار
داده های ثبت شده در پورتال				
1	Control Theory in Biomedical Engineering Applications in Physiology and Medical Robotics A double Pendulum Model for Human Walking Control on the Treadmill and Stride-to-stride Fluctuations: Control of Step Length, Time, Velocity and (Position on the Treadmill (Chapter 10	علیرضا بهرامیان، فرزاد توحیدخواه، سجاد جعفری، اولفا بوبکر	Netherlands	1399
2	Recent Advances in Chaotic Systems and Synchronization- Chapter 9 - Some New Chaotic Maps With Application in Stochastic	عزالدین ملیکی، نوید حسن زاده، فهیمه نظری مهر، آکیف آگگول، اولفا بوبکر، سجاد جعفری	Netherlands	1397
3	Recent advances in chaotic systems and synchronization A new five dimensional multistable chaotic system with hidden (attractors (Chapter 5	عاطفه احمدی، کارتیکیان راجاگوپال، ویت-تان فام، اولفا بوبکر، سجاد جعفری	Netherlands	1397
4	Recent advances in chaotic systems and synchronization A new four-dimensional chaotic system with no equilibrium point ((Chapter 4	شیرین پناهی، ویت-تان فام، کارتیکیان راجاگوپال، اولفا بوبکر، سجاد جعفری	Netherlands	1397

1	1397	Netherlands	ویت-ٹان فام، کریستوس ولوس، ساندرایاندیان وایدیانانان، سجاد جعفری، پ. م. گوکول، توماس کاپیتانیاک	Recent advances in chaotic systems and synchronization (Chaos in a System With Parabolic Equilibrium (Chapter 3	5
1	1397	Netherlands	زهرارستمی، سیدمحسن موسوی، کارتیکیان راجاگوپال، اولفا بوبکر، سجاد جعفری	Recent advances in chaotic systems and synchronization Chaotic solutions in a forced two-dimensional Hindmarsh-Rose (neuron (Chapter 10	6
1	1397	Netherlands	ابیر لاسود، اولفا بوبکر، راشد ظیفانی، سجاد جعفری	Recent advances in chaotic systems and synchronization Experimental observations and circuit realization of a jerk (chaotic system with piecewise nonlinear function (Chapter 1	7
1	1397	Netherlands	یاسر شکفته، شیرین پناهی، اولفا بوبکر، سجاد جعفری	Recent advances in chaotic systems and synchronization Parameter Estimation of Chaotic Systems Using Density (Estimation of Strange Attractors in the State Space (Chapter 7	8
1	1397	Germany	ویت-ٹان فام، سجاد جعفری، کریستوس ولوس، لوئیجی فورٹونا	Advances on Nonlinear Dynamics of Electronic Systems Chaotic behaviors in a system with stable equilibrium	9
1	1395	Switzerland	ویت-ٹان فام، ساندرایاندیان وایدیانانان، کریستوس ولوس، سجاد جعفری، توماس گوتانز	Fractional Order Control and Synchronization of Chaotic Systems A Three-Dimensional Chaotic System with Square Equilibrium and No-Equilibrium	10
1	1394	United States	ویت ٹانه فام، ساندرایاندیان وایدیانانان، کریستوس ولوس، سجاد جعفری، ژبونگ وانگ	Advances and Applications in Chaotic Systems	11

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مقالات کنفرانس

داده های ثبت شده در پورتال

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دروس ارائه شده

# عنوان درس	توصیف درس	سرفصل ها	دوره درسی
1 Chaos & Its Applications Biomed. Eng	Introduction to chaos and its applications in biomedical engineering		Fall 2021