



دانشگاه صنعتی امیرکبیر  
(پلی تکنیک تهران)

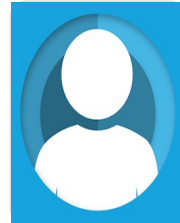
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### رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	توسعه روش تصویر برداری نشان گذاری شعاعی به منظور کمی سازی پیچش بطن چپ قلب	الهام محمدی و عباس نصیرائی مقدم	اسفند 1400
2	تصویر برداری MRI برای بررسی ارتباط ساختار و کارکرد مغز و آنالیز توأم آنها	فرزانه کیوان فرد و عباس نصیرائی مقدم	آذر 1398
3	بهبود تباین تصویربرداری تشدید مغناطیسی کارکردی بوسیله توسعه روشهای تصویر برداری و پردازشی	وحید ملکیان و عباس نصیرائی مقدم	اسفند 1396

### پایان‌نامه‌های کارشناسی ارشد

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	تفاوت اتصالات ساختاری و کارکردی در مغز افراد سالم و بیماران اسکیزوفرنی با استفاده از آنالیز توأم تصاویر چند پارامتری	علیرضا رحیمی نسب و عباس نصیرائی مقدم	مهر 1400
2	اصلاح حرکت در دیتاهای fimri در فضای K= space با استفاده از الگوریتم های یادگیری عمیق	میثم پشوتن و عباس نصیرائی مقدم	تیر 1400
3	بازسازی تصویر تشدید مغناطیسی بصورت کروی در فضای سه بعدی (کوشبال) به وسیله ی تبدیل فوری کروی و پیشنهاداخذ مناسب	مجتبی شفیع خانی و عباس نصیرائی مقدم	فروردین 1400
4	اصلاح آرتیفکت های حرکتی در داده اف ام آر آی تفکیک حالت دایم با اخذ شعاعی در فضای فرکانس مکانی	فائزه مخصوصی و عباس نصیرائی مقدم	فروردین 1400
5	بهبود کارایی تصویر برداری تانسور دیفیوژن به کمک اخذ شعاعی و بازسازی قطبی (به کمک شبیه سازی)	مهسا سلیمی مجد و عباس نصیرائی مقدم	دی 1399
6	تحلیل دینامیک قلب با استفاده از اندازه گیری پیچش ناحیه ای و سراسری بطن چپ و بررسی تکرارپذیری این معیار	آیدا آرامی و عباس نصیرائی مقدم	اسفند 1398

7	تولید آزمایشگاهی و تست پمپ تزریق ماده کنتراست با قابلیت تزریق مبتنی بر مدل دینامیک گردش ماده کنتراست در بدن	مجید قاسمی و عباس نصیرائی مقدم	شهریور 1398
8	بازسازی آنلاین تصاویر تشدید مغناطیسی با اخذ شعاعی توسط روش تبدیل فوریه قطبی بر روی اسکتر ام آر آی	فاطمه رستگارجویباری و عباس نصیرائی مقدم	بهمن 1397
9	تحلیل و کمی سازی عوامل خطا در نقشه برداری T1 عضله قلب با توالی پالس MOLL و پیشنهاد روشی به منظور بهبود تخمین T1	مصطفی برنگی و عباس نصیرائی مقدم	شهریور 1397
10	تفکیک مکانی ساختارهای ظریف در قشر مغز انسان به وسیله تصویربرداری تشدید مغناطیسی کارکردی برپایه حالت دائم	بنفشه شفیعی زرگر و عباس نصیرائی مقدم	بهمن 1396
11	افزودن بعد سوم به نگاشت جابجایی با استفاده از نشان گذاری CMR در مختصات قطبی	علی رضائی و عباس نصیرائی مقدم	تیر 1396
12	تخمین آرتیفکت های تصویربرداری MR در حضور اشیاء فلزی و اعمال تصحیحات ممکن بر اعوجاج های تصویر	سینا امیررجب و عباس نصیرائی مقدم	بهمن 1395
13	آنالیز گروهی و مقایسه آماری برای روش های MRI کارکردی حالت دائم	ارش فرودی قاسم ابادی و عباس نصیرائی مقدم	بهمن 1395
14	استخراج حرکت چرخشی قلب و تحلیل آن در افراد سالم و بیمار با استفاده از تصاویر نشان گذاری شده MRI	شهریار شالیکار و عباس نصیرائی مقدم	تیر 1395
15	بهبود مقاوم سازی و تکرار پذیری fMRI در روش Averaged-BOSS با الهام از روشهای پردازشی در GRE BOLD	مهدی خواجه ایم و عباس نصیرائی مقدم	بهمن 1394
16	بررسی اثرات ترکش ها (ی ناحیه سر) بر ایمنی و کیفیت تصویرگری MRI	وحید قدرتی کوزه کنان و عباس نصیرائی مقدم	بهمن 1393
17	کاربرد روش سنجش فشرده در تصاویر طیف نگاری تشدید مغناطیسی	محمد عبدی شکنائی و عباس نصیرائی مقدم	بهمن 1393
18	بهبود کیفیت و سرعت تصویربرداری کرنش قلب از طریق ام آر آی با تکنیک نشان گذاری در مختصات قطبی.	شکوفه گلشنی و عباس نصیرائی مقدم	مهر 1393
19	تاثیرات جریان خون در تصویرگری ام آر آی با رشته پالس SSFP: بررسی کمی و نیز کاهش آرتیفکت	سعید احمدی نیا و عباس نصیرائی مقدم	بهمن 1392
20	بهبود رزولوشن زمانی روش MRI - Dynamic Contrast Enhanced از طریق بهینه سازی تزریق ماده کنتراست و نحوه اخذ داده ها	مریم افتخاریان چهرمی و عباس نصیرائی مقدم	بهمن 1392
21	تحلیل و امکان سنجی استفاده از رشته پالس SSFP برای تصویربرداری تشدید مغناطیسی عملکردی از مغز انسان	زهره شمس و عباس نصیرائی مقدم	بهمن 1392
22	بررسی کرنش و پیچش عضله قلب بیماران با نارسائی های انقباضی قلبی با استفاده از روشهای نوین نشان گذاری تصاویر MRI	راضیه کاوه و عباس نصیرائی مقدم	مهر 1392
23	اندازه گیری کرنش عضله قلب بوسیله فریزهای ماره در تصاویر نشان گذاری شده MR در مختصات قطبی	نفیسه بابائی و عباس نصیرائی مقدم	بهمن 1391
24	تسریع رگ نگاری MRI مقایسه تصویر برداری موازی و فشرده سازی دریافت Compressed sensing	جعفر زمانی و عباس نصیرائی مقدم	آبان 1391
25	نگاشت و آنالیز تغییر شکل عضله قلب با اعمال روش Circome روی تصاویر MRI نشان گذاری شده در جهت قطبی	مریم هفته خانکی و عباس نصیرائی مقدم	شهریور 1391
26	بهبود ادغام تصاویر MRI و پزشکی هسته ای ( SPECT / PET )	عطیه مقیمی و عباس نصیرائی مقدم	اردیبهشت 1391
27	طبقه بندی حرکت چشم به کمک پردازش تصویر به منظور کمک به معلولان حرکتی	علیرضا رحیم پور و عباس نصیرائی مقدم	دی 1390

نسخه	تاریخ انتشار	کشور ناشر	نگارندگان/مترجمان	عنوان #
داده های ثبت شده در پورتال				
1	1396	United States	عباس نصیرائی مقدم, دانیل انیس, سید ابراهیم	Heart Mechanics: Magnetic Resonance imaging 1

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- 48 Zahra Shams, Abbas Nasiraei Moghaddam, "Averaged-BOSS: Feasibility Study and Preliminary Results ", Joint Annual meeting International Society for Magnetic Resonance in Medicine - European Society for Magnetic Resonance in Medicine and Biology 2014, May 2014
- 49 Shokoufeh Golshani, Abbas Nasiraei Moghaddam, Holden Wu, J P. Finn, "Circular Tagging with Concentric Data Acquisition: Can We Go Real-Time? ", Joint Annual meeting International Society for Magnetic Resonance in Medicine - European Society for Magnetic Resonance in Medicine and Biology 2014, May 2014
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- 53 Farhan Khodae, Abbas Nasiraei Moghaddam, Nasser Fatourae, "3D modeling of blood flow in human circle of Willis and assess the effects of hyper-pressure on hemodynamics of flow ", 20th Iranian Conference of biomedical Engineering, December 2013
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- 55 Sarah N Khan, Abbas Nasiraei Moghaddam, Razieh Kaveh, Ali Nsair, Mona Bhatia, J Paul Finn, "Myocardial Tagging in the Polar Coordinate System; Initial Clinical Results ", International Society for Magnetic Resonance in Medicine (ISMRM)- 21st international meeting, April 2013
- 56 Wang Z, Rayhan M, Abbas Nasiraei Moghaddam, J P. Finn, Ennis D., "Automated Left Ventricular Twist Measurement with Complementary Radial Tags ", International Society for Magnetic Resonance in Medicine (ISMRM)- 21st international meeting, April 2013
- 57 Razieh Kaveh, Maryam Haftehkhani, Abbas Nasiraei Moghaddam, Alizadeh Sani, Ojaghi Haghighi, J P. Finn, "Quantitative Analysis of Left Ventricular Deformation through Radial Tagging ", The First International Iranian Congress of Non Invasive Cardiovascular Imaging, April 2013

- 58 Maryam Eftekharian-Jahromi, Abbas Nasiraei Moghaddam, "Modeling Dynamic Behavior of Tracer through the Vessels and Its Effect on Contrast Enhancement ", The First International Iranian Congress of Non Invasive Cardiovascular Imaging, April 2013
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- 60 Razieh Kaveh, Abbas Nasiraei Moghaddam, Sarah N Khan, J Paul Finn, "Twist measurement of the left ventricle through radial tagging ", Society for Cardiovascular Magnetic Resonance (SCMR)16th Annual Scientific Sessions, January 2013
- 61 Jafar Zamani, Abbas Nasiraei Moghaddam, Saligheh Rad. Hamid, "Compressed sensing cardiac MRI exploiting spatio-temporal sparsity ", Society for Cardiovascular Magnetic Resonance (SCMR) 16th Annual Scientific Sessions, January 2013
- 62 Ali Aghaeifar, Nafiseh Babayi, Abbas Nasiraei Moghaddam, "High resolution high density CMR circular tagging ", Society for Cardiovascular Magnetic Resonance (SCMR) 16th Annual Scientific Sessions, January 2013
- 63 Alireza Rahimpour, Mansur Vafadust, Abbas Nasiraei Moghaddam, "Eye Tracking by Image Processing for Helping Disabled People ", 19th Iranian Conference on BioMedical Engineering, December 2012
- 64 Jafar Zamani, Abbas Nasiraei Moghaddam, Hamidreza Saligheh Rad, "PILS-CS: Accelerating Partially Parallel Imaging with Localized Sensitivities (PILS) Using Compressed Sensing (CS) ", 34th Annual International IEEE EMBS Conference, August 2012
- 65 Jafar Zamani, Hamidreza Saligheh Rad, Abbas Nasiraei Moghaddam, "Application of Split Bregman Optimization Method for Compressed Sensing CE-MRA ", 34th Annual International IEEE EMBS Conference, August 2012
- 66 Maryam Haftehkhani, Abbas Nasiraei Moghaddam, Abd-Elmoniem, Finn, "Measuring the Radial Component of Left Ventricular Strain with Circular Tagging: Feasibility and Initial Results ", International Society for Magnetic Resonance in Medicine (ISMRM)- 20th international meeting, May 2012
- 67 Jafar Zamani, Abbas Nasiraei Moghaddam, Hamidreza Saligheh Rad, "MRI Reconstruction through Compressed Sensing Using Principle Component Analysis ", 20th Iranian Conference of Electrical Engineering, May 2012
- 68 Wang Z, Abbas Nasiraei Moghaddam, Rayhan M; Srinivasan Sh, Natsuaki, J P. Finn, Ennis D., "Optimization of the radial tagging profile and validation using the Cardiac Atlas Project database ", International Society for Magnetic Resonance in Medicine (ISMRM)- 20th international meeting, May 2012
- 69 Nafiseh Babayi, Abbas Nasiraei Moghaddam, "Polar HARP for the Polar CMR Tagging ", Society for Cardiovascular Magnetic Resonance (SCMR)15th Annual Scientific Sessions, February 2012
- 70 Wang Z, Abbas Nasiraei Moghaddam, Rayhan , J P Finn, Ennis, "Complementary Radial Tagging for the Assessment of Left Ventricular Function ", International Society for Magnetic Resonance in Medicine (ISMRM)- 19th international meeting, May 2011
- 71 Abbas Nasiraei Moghaddam, Abd-Elmoniem K, Heidari , Ruehm S, J P. Finn, "Left Ventricular Strain through Radial Tagging: Efficiency and Validity ", International Society for Magnetic Resonance in Medicine (ISMRM)- 19th international meeting, May 2011
- 72 Middione M, Abbas Nasiraei Moghaddam, Natsuaki , Ennis D., "The effects of chemically shifted perivascular fat in quantitative phase contrast MRI ", International Society for Magnetic Resonance in Medicine (ISMRM)- 19th international meeting, May 2011
- 73 Abbas Nasiraei Moghaddam, Yutaka Natsuaki, J. Paul Finn, "CMR Tagging in the polar coordinate system ", 2011 Society for Cardiovascular Magnetic Resonance (SCMR)/EuroCMR Joint Scientific Sessions, February 2011

## دروس ارائه شده

#	عنوان درس	توصیف درس	دوره سرفصل درسی ها
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1	Physics of the Human Body	knowing physical issues concerning the human body		Spring 2022
2	Medical Imaging Systems	Intoduction to the physics techniques and applications of different medical imaging modalities		Fall 2021
3	Electromagnetics	Learning the principles of the Electromagnetics in a deductive approach		Spring 2021
4	Magnetic Resonance Imaging	Learning the principles of the Magnetic Resonance Imaging (MRI) system in signal generation and image formation		Spring 2021

### اختراعات/ ثبت پتنت

تاریخ انقضا	تاریخ ثبت	همکاران	کشور ثبت کننده	شماره ثبت	عنوان اختراع #
داده های ثبت شده در پورتال					
1414/8/10	1397/12/10	عباس نصیرائی مقدم، شکوفه گلشنی	-	US10228435B2	1 POLAR MAGNETIC RESONANCE IMAGING AND APPLICATIONS THEREOF IN CARDIAC MAGNETIC (RESONANCE IMAGING (2
-	1397/11/12	عباس نصیرائی مقدم، الهام محمدی	-	62/800,498	2 real-time radial tagging
-	1392/10/11	عباس نصیرائی مقدم	-	App. No. 14/164,133	3 FUNCTIONAL MAGNETIC RESONANCE IMAGING BY SPATIALLY MODULATION STEADY-STATE SIGNAL IN STEADY STATE FREE PRECISION