

# CURRICULUM VITAE



## I. Personal Information

Name: Ahmad Bitarafan Rajabi  
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## II. Educational Records

### 2002-2009:

PhD in Medical Physics in Tarbiat Modares university of Iran

**Correction of respiratory motion in myocardial gated SPECT imaging, correlation with angiography**, A Thesis Presented for the PhD Degree in Medical Physics.

### 1998-2001:

M.S. in Medical Physics at Tarbiat Modares University of Iran

**Selection of optimum filters for myocardial perfusion SPECT imaging in comparison with angiography**. A Thesis Presented for the Master of Sciences Degree In Medical Physics.

### 1994-1996:

B.S. in Technology of Radiology at Tehran University, Iran

### 1991-1993:

B.S. in Technology of Radiology at Iran University, Iran

## III. Research Publications:

### A. Publication Journals:

- 1- H. Rajabi, G.S. Pant and **A. Bitarafan-Rajabi**; Back-projection SPECT and filtration. Statistical and mathematical techniques in nuclear medicine: Delhi; 72-83, 2001.
- 2- **A. Bitarafan-Rajabi**, H. Rajabi, N. Yagoobi, H. Firouzabadi F. Rastgou ; Filter selection for 99mTc-sestamibi myocardial perfusion SPECT imaging; Iranian journal of nuclear medicine;19: 41-50-2003.

- 3- H. Rajabi, B Shalchian, N. Yagoobi, **A. Bitarafan-Rajabi**, F. Rastgou, H. Firouzabadi; Calculation of Tc99m –DTPA transit times in normal kidney; Iranian journal of nuclear medicine; 20: 41-48:2003.
- 4- N Jabbari, H. Rajabi , H. Firouzabadi, F. Rastgou, N. Yagoobi, **A. Bitarafan-Rajabi**; B Hashemi Malayeri; Appropriate energy window width for gamma camera; Iranian journal of nuclear medicine; 21: 41-48;2004.
- 5- **A. Bitarafan-Rajabi**, H. Rajabi, H. Firouzabadi F. Rastgou, N. Yagoobi, M Amoui and G Raziee; Comparison of acceptance tests for SPECT system in Tehran; Iranian journal of nuclear medicine;13(24): 31-37-2005.
- 6- S Rasaneh, H. Rajabi , F. Rastgou , E Hajizadeh, **A. Bitarafan-Rajabi**, N. Yagoobi , H. Firouzabadi ; Feasibility of using statistical tests in evaluation of non-uniformity; Iranian journal of nuclear medicine;13(24): 15-24-2005.
- 7- H. Rajabi, **A. Bitarafan-Rajabi**, N. Yaghoobi, H. Firouzabady, F. Rustgou; Determination of the Optimum Filter Function for Tc99m- Sastamibi Myocardial Perfusion SPECT Imaging. Indian journal of Nuclear Medicine; 20(3): 5-10; 2005.
- 8- M Salouti, H. Rajabi, H Babaei, MJ Rasaei, R Najafi, M Mazidi, M Shafiee, ZM Hasan, **A. Bitarafan-Rajabi** J Mohammad nejad, TM Altarihi, N Namvar, Radioimmunosintigraphy of breast tumor xenografts in mouse model by 99mTc direct radiolabeling of a monoclonal antibody PR81. Iranian J Med Phys; 2(8): 45-52; 2005.
- 9- S Rasaneh, H. Rajabi, **A. Bitarafan-Rajabi**, M R Farsinejad, The Effects of Earth Magnetic Field in SPECT System. Yafte; 8(1): 37-42, 2006.
- 10- H. Firouzabady, **A. Bitarafan-Rajabi**, H. Rajabi, F. Rustgou, F. Noohi, A. Mohebi , A.R.Tilekoo, N. Yaghoobi, H. Malek. Measurement of LVEF using ECG-Gated SPECT and Angiography: A correlation study. Iranian Heart journal. 8(3); 6-15: 2007.
- 11- A. Takavar, H.R Ghiasi, N. Alibabaei, N. Riyahi-Alam, A. Fard-Esfahani, M. Sohrabi, **A. Bitarafan-Rajabi**, Platelet-based MPLE Algorithm for Denoising of SPECT Images: Phantom and Patient Study. Iranian journal of nuclear medicine; 15 (27): 8-13-2007.
- 12- E. Raeisi, H. Rajabi, M.R. Aghamiri, E. Hajizadeh, S. Seifollahi-Asl, N. Yaghobi, H. Firozabadi, **A. Bitarafan-Rajabi**. Qualitative Evaluation of Filter Function in Brain SPECT. Iranian journal of nuclear medicine; 15(27): 1-8-2007.
- 13- K. Ebrahimnezhad Gorji, H. Rajabi, H. Zaidi, E. Hajizadeh, **A. Bitarafan-Rajabi**, H.R. Ghiasi. Comparison of 6 PET Scanners, A Simulation Study. Iranian journal of nuclear medicine; 15(27): 24-35-2007.

- 14- F. Kalantari, H. Rajabi, N. Yaghoobi, **A. Bitarafan**, K. Ebrahimnejad Gorji, F. Rastgoo, H. Malek, H. Firuzabadi. Energy Window Setting for Optimum Tl-201 Cardiac Imaging. Iranian journal of nuclear medicine; 15(28): 15- 24-2007.
- 15- **A. Bitarafan-Rajabi**, H. Rajabi, B. Gruy, F. Rustgou, A.A. Sharafi, H. Firoozabady, N. Yaghoobi, H. Malek, C. Pirich, W. Langesteger, M. Beheshti, Respiratory Motion Detection and Correction in ECG-Gated SPECT: a New Approach. Korean Journal of Radiology; 9(6); 490-497; 2008.
- 16- **A. Bitarafan-Rajabi**, H. Rajabi, The effect of filtrating and reconstruction method on the left ventricular ejection fraction derived from GSPET: a statistical comparison of angiography and echocardiography. Annual Nuclear Medicine; 22:707–713; 2008.
- 17- H. Malek, **A. Bitarafan-Rajabi**, F. Rustgoo, N. Yaghoobi, Firoozabadi H, Correlation of automatic processing technique in myocardial perfusion SPET with interactive method. Hellenic Journal of Nuclear Medicine; Jan-Apr; 12(1):10-12; 2009.
- 18- **A. Bitarafan-Rajabi**, H. Rajabi, F. Rustgou, A.A. Sharafi, Effect of respiratory motion on quantitative myocardial gated SPECT: a simulation study. Annual Nuclear Medicine; 23(6): 587-593; 2009.
- 19- فراز کلانتری ، حسین رجبی ، ناهید یعقوبی ، احمد بیطرفان رجبی، اصلاح آلودگی متقابل در تصویربرداری اسپکت همزمان تالیوم - تکنسیوم از قلب با روش تلفیقی - تفاضلی، مجله فیزیک پزشکی ، ۱۳۸۸ ، ۶ : ۵۸-۷۱.
- 20- Salouti M, Babaei MH, Rajabi H, Foroutan H, Rasae MJ, **Bitarafan-Rajabi A**, Mohammadnejad J, Shafiee M, Mazidi M, Daha FJ. Comparison of (99m)Tc-labeled PR81 and its F(ab')(2) fragments as radioimmunosciintigraphy agents for breast cancer imaging. Ann Nucl Med. 2011;25:87-92.
- 21- Mohammadnejad J, Rasae MJ, Babaei MH, Paknejad M, Zahir MH, Salouti M, **Bitarafan-Rajabi A**, Mazidi M. A new radiopharmaceutical compound (131I-PR81) for radioimmunotherapy of breast cancer: labeling of antibody and its quality control. Hum Antibodies. 2010;19(4):79-88.
- 22- M. Salouti, M.H. Babaei, H. Rajabi, H. Forootan, M.J. Rasae, **A. Bitarafan Rajabi**, F. Johari Daha, M. Mazidi, J. Mohammad Nejad, M. Shafiee. Production, Quality Control and Biodistribution Study of F(ab')<sub>2</sub> Fragment of Antibody PR81 Labeled with 99mTc for Diagnosis of Breast Carcinoma Bearing Mice. , 2010, J. Nuclear Sci. and Tech. No. 53, pp. 10-19.
- 23- H. Malek, T. Ghaedian, N. Yaghoobi, F. Rastgou, **A. Bitarafan-Rajabi**, and H. Firoozabadi, Focal breast uptake of 99mTc-sestamibi in a man with spindle cell lipoma, J. Nucl. Cardiol. 2012;19:618-20.

- 24- Feridoon Rastgou , **Ahmad Bitarafan-Rajabi**, Ahmad Farahzadi, Nahid Yaghoobi, Hadi Malek, Hasan Firoozabady, Hossein Ali Basiri, Hassan Moladoust ,Diagnostic Accuracy Assessment of ST Segment Displacements, Chest Pain and Stress Myocardial Perfusion Exercise Test in Coronary Stenosis compare with Angiography Finding, Iranian Heart journal, 12(4); 30-36: 2012.
- 25- Yaghoobi N, Mardanshahi A, Rastgou F, Malek H, Firouzabady SH, **Bitarafan-Rajabi A**, Amouzadeh H, Vaseghi S. Impact of metoclopramide on image quality in myocardial perfusion imaging. **Nucl Med Commun**. 2012 Oct; 33(10):1053-7.
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### **B. National and International Congress:**

- 1- H. Rajabi, **A. Bitarafan-Rajabi**, N. Yagoobi, H. Firouzabadi F. Rastgou; Filter selection for <sup>99m</sup>Tc-sestamibi myocardial perfusion SPECT imaging; P71; EANM -August 2002.
- 2-**A Bitarafan-Rajabi**, H. Rajabil, F. Rastgou, N. Yagoobi, S. Hekmat, H. Firouzabadi; Measurement of LVEF using ECG-Gated SPECT echocardiography and angiography, a correlation study; P574: EANM 2004.
- 3- S Rasaneh, H. Rajabi, **A. Bitarafan-Rajabi**, F. Rastgou; The Effects of Earth Magnetic Field to Shift Photo Peak in SPECT System ; P546: EANM 2004.
- 4- F. Rastgou, S. Seifollahi.asl, S. Hatami, N. Yagoobi, M. Noroozian, H. Firouzabady, M. Bigdeli, **A. Bitarafan-Rajabi**, M. Malek; The Measurement of Regional Cerebral Blood Flow (r-CBF) after Listening to Komail Prayers (Rhythmic Shiite Prayers) in Three Groups of Subjects with Different Degrees of Religiosity; P330-EANM-2005.
- 5- H. Rajabi, E Raeisi, **A. Bitarafan-Rajabi**; A phantom for software evaluation in SPECT imaging, P708-EANM-2005
- 6- H. Rajabi, **A. Bitarafan-Rajabi**, N. Yaghoobi, H. Firouzabady, F. Rustgou ; Filter selection for <sup>99m</sup>Tc-sestamibi myocardial perfusion SPECT imaging, The fifth Iranian congress of medical physics 19-20 may 2002
- 7-H. Rajabi, **A. Bitarafan-Rajabi**, N. Yaghoobi, H. Firouzabad, F. Rustgou; Evaluation of MTF in SPECT imaging, The sixth Iranian congress of nuclear medicine 2002
- 8- N Aghaie , S Sarcar, H. Firouzabady, **A. Bitarafan-Rajabi**, Evaluation of quality control and measurements of physical parameters for SPECT systems; The sixth Iranian congress of nuclear medicine 2002

9- N Jabbari, H. Rajabi , H. Firouzabadi, F. Rastgou, N. Yagoobi, **A. Bitarafan-Rajabi**; New method for energy spectrum in gamma camera. The sixth Iranian congress of nuclear medicine 2002

10- **A. Bitarafan-Rajabi** ,F. Rastgou, H. Rajabi, N. Yagoobi, G Omrani, H. Firouzabady, S. Hatami, R Baghaie , A Mohebi, H Bassiri; Measurement of LVEF using ECG-Gated SPECT echocardiography and angiography, a correlation study; The 14th congress of Iranian heart Association Nov.23-26. 2004

11-H Zargari-Asl, M Mokhtari-Dizaji, N. Yagoobi, **A. Bitarafan-Rajabi**; Automatic calculation of left ventricle mid-wall strain in cardiac phases myocardial gated perfusion SPECT. The 14th congress of Iranian heart Association Nov.23-26, 2004

12- N. Yagoobi, F. Rastgou, S. Seifollahi.asl,H. Firouzabady,M. Malek, **A. Bitarafan-Rajabi**, Comparison of Regional Cerebral Blood Flow (r-CBF) after Listening to Komail Prayers (Rhythmic Shiite Prayers) in Three Groups of Subjects with Different Degrees of Religiosity; Ninth Iranian congress of nuclear medicine 10-12 Dec 2005

13- N. Yagoobi, F. Rastgou, S. Seifollahi.asl,H. Firouzabady,M. Malek, **A. Bitarafan-Rajabi**, Savadkoshi and Shahmohammadi; Quantitative pulmonary scintigraphy for evaluation of congenital anomalies of the heart and great vessels; Ninth Iranian congress of nuclear medicine 10-12 Dec 2005

14- M Mokhtari-Dizaji, H Zargari-Asl, **A. Bitarafan Rajabi**, N. Yaghoobi; Biomedical calculation of left ventricle with using myocardial gated SPECT; Ninth Iranian congress of nuclear medicine 10-12 Dec 2005

15- F Kalantari,H. Rajabi, K Ebrahimnejad-Gorji ,**A. Bitarafan Rajabi**; Using from NCAT phantom for simulation in nuclear medicine; Ninth Iranian congress of nuclear medicine 10-12 Dec 2005

16- E Raeisi, H. Rajabi , S. Seifollahi.asl , E Hajizadeh, M R Aghamiri, M Amoui,**A. Bitarafan-Rajabi**, S Olomi; Optimum filter selection in brain SPECT imaging; Ninth Iranian congress of nuclear medicine 10-12 Dec 2005

17- **A.Bitarafan-Rajabi**, H. Rajabi ,F. Rustgou , M. Mokhtari, S. Hekmat, N. Yaghoobi, H. Firouzabady; Effective of reconstruction methods and filtration on LVEF in the ECG- Gated SPECT in the comparison with echocardiography and angiography; The sixth Iranian congress of medical physics 11-13 may 2004

18- **A. Bitarafan-Rajabi**, H. Rajabi, H. Firouzabadi F. Rastgou, N. Yagoobi, M Amoui and G Raziee ; Comparison of acceptance tests for SPECT system in Iran; The sixth Iranian congress of medical physics 11-13 may 2004

19- S Rasaneh, H. Rajabi, **A. Bitarafan-Rajabi**, F. Rastgou; The Effects of Earth Magnetic Field to Shift Photo Peak in SPECT System; The sixth Iranian congress of medical physics 11-

13 may 2004

20- N Jabbari, H. Rajabi , H. Firouzabadi, F. Rastgou, N. Yagoobi, **A. Bitarafan-Rajabi**, B Hashemi Malayeri; Energy Calibration using a single radioactive source; The sixth Iranian congress of medical physics 11-13 may 2004

21- **مجتبی صلوتی**، حسین رجبی، حسین بابایی، محمد جواد رسایی، محمد مزیدی، محمد شفیعی، زهیر محمد حسن، **احمد بیطرفان رجبی**، رادیوایمونوسینتی گرافی از تومور پیوندی آدنوکارسینوماي پستان موش با استفاده از يك آنتي بادي مونوکلونال ضد MUC1 جدید ( PR81 ) نشاندار شده با  $^{99m}\text{Tc}$  از طریق متیلن دي فسفونات، کنفرانس هسته اي ايران، ۳-۴ اسفند ماه ۱۳۸۴، مشهد

22- **مجتبی صلوتی**، حسین رجبی، حسین بابایی، محمد جواد رسایی، محمد مزیدی، محمد شفیعی، زهیر محمد حسن، **احمد بیطرفان رجبی**، جواد محمد نژاد، ارزیابی میزان جذب آنتی بادی های نشاندار شده در تومور به سایر ارگانها با استفاده از تصاویر سینتی گرافی به منظور جلوگیری از کشتن حیوانات، اولین سمینار و کارگاه حفاظت در برابر اشعه در بخش های پزشکی هسته ای، ۲۴-۲۶ مهر ماه ۱۳۸۶، تهران

23- H Moladoust, M Mokhtari-Dizaji, Z Ojaghi-Haghighi, F Noohi, R Jalalian, A Khaledif, H Grailu, **A. Bitarafan-Rajabi**. Regional Myocardium Radial Strain Assessment of the Interventricular Septum by use of new proposed algorithm. The seventh Congress on Internal Disease, 2006, Universith of Arthesh Medical Science Tehran, Iran

24- H Moladoust, M Mokhtari-Dizaji, Z Ojaghi-Haghighi, F Noohi, R Jalalian, A Khaledif, H Grailu, **A. Bitarafan-Rajabi**. Regional Myocardium Radial Strain Assessment of the Interventricular Septum by use of new proposed algorithm. 14<sup>th</sup> Biennial Congress for the Canadian Society for Biomechanics Department of Kinesiology, University of Waterloo August 16-19, 2006

25- F. Abbaspour, **A. Bitarafan-Rajabi**, H. Rajabi, F. Rastgou. Coincidence gamma camera imaging; a comparison between the two modes of imaging, Iranian Journal of Nuclear Medicine; 14(Suppl 1): 61-62; 2006.

26- H. Taleshi Ahangari, H. Rajabi, F. Kalantari, **A. Bitarafan Rajabi**. A new method for attenuation correction using dual energy window; Iranian Journal of Nuclear Medicine; 14(Suppl 1): 22-23;2006.

27- F. Kalantari, H.Rajabi, N.Yaghoobi, **A.Bitarafan**, K.E. Gorji, F.Rastgoo, H.Malek, S.H.Firoozabadi. Energy window setting for optimum Tl-201 heart imaging; Iranian Journal of Nuclear Medicine; 14(Suppl 1): 23-24; 2006.

28- A. Arabpour, F. Rastgoo, D. Shahbazi, N. Yaghobi, S.H. Firouzabadi, H. Malek, **A. Bitarafan**. Gated SPECT cardiac wall motion assessment by using different reconstructive methods and filters in comparison with quantitative coronary angiography; Iranian Journal of Nuclear Medicine; 14(Suppl 1): 6-7; 2006.

- 29- A. Arabpour, F. Rastgoo, D. Shahbazi, N. Yaghoobi, S.H. Firouzabadi, H. Malek, **A. Bitarafan**. Gated SPECT cardiac ejection fraction assessment by using different reconstructive methods and filters in comparison with quantitative coronary angiography; Iranian Journal of Nuclear Medicine; 14(Suppl 1): 5-6; 2006
- 30- E. Raeisi, H. Rajabi, M. R Aghameri, E. Hajizadeh and A. Bitarafan-Rajabi, Performance Evaluation of FBP Reconstruction in SPECT Imaging; World Congress on Medical Physics and Biomedical Engineering (2006); 14: 1719-1721; copyright (2007)
- 31- F. Kalantari, H.Rajabi, N.Yaghoobi, **A.Bitarafan**, M Mohammad Alipour, F.Rastgoo, H.Malek, S.H.Firoozabadi. Compensation of cross contamination in simultaneous  $^{201}\text{Tl}$  /  $^{99\text{m}}\text{Tc}$  myocardial perfusion SPECT; 11<sup>th</sup> Iranian Annual Congress of Nuclear Medicine; 15-17 Nov, 2007
- 32- **A Bitarafan-Rajabi**, H Rajabi, B Gruy, F Rustgou, A A Sharafi, H Firoozabady, N Yaghoobi, H Malek, W Langesteger, M Beheshti, Development of a respiratory motion detecting system for respiratory-cardiac gated SPECT; 11<sup>th</sup> Iranian Annual Congress of Nuclear Medicine; 15-17 Nov, 2007
- 33- F. Abbaspour, **A.Bitarafan-Rajabi**, H. Rajabi, F. Rastgou, Coincidence gamma camera imaging; Is it an out of date method for developing countries? ; A comparison between the two modes of imaging; SNM Congress 2007 USA
- 34- **A. Bitarafan-Rajabi**, H. Rajabi, F. Rustgou, A. Sharafi; Effect of respiratory motion on quantitative myocardial gated SPECT; EANM Congress 2008 – Munich
- 35- Mojtaba Salouti, Hossein Babaei, Hossein Rajabi, Haleh Foroutan, MohammadJavad Rasae, **Ahmad Bitarafan**, Mohammad Shafiei, Mohammad Mazidi, Fariba Johari Daha, Evaluation of Breast Tumor Targeting with Radiolabeled  $\text{F(ab')}_2$  Fragment of a New Anti-MUC1 Monoclonal Antibody (PR81). World Congress on Medical Physics and Biomedical Engineering 2009- Munich
- 36- M. Salouti ,M. H. Babaei, H. Rajabi, M. J .Rasae, , F. Johari Daha, H. Forootan, J. Mohammadnejad, A. Bitarafan, M .Shafiee. A New Biologic Radiopharmaceutical for Targeted Therapy of Breast Cancer:  $^{177}\text{Lu}$  Labeling of Mab PR81 and Quality Control. International Conference on Advances in Radiation Oncology, April 27-29, 2009, Vienna, Austria
- 37- **Ahmad Bitarafan-Rajabi**, Hossein Rajabi, Feridoon Rustgou, Hasan Firoozabady, Nahid Yaghoobi, Hadi Malek, Hassan Moladoust, Respiratory motion influence on ECG-gated SPET: a simulation study. World Congress on Medical Physics and Biomedical Engineering 2009- Munich
- 38- Hassan Moladoust, Manijhe Mokhtari-dizaji, Zahra Ojaghi-Haghighi, Feridoun Noohi, **Ahmad Bitarafan**, Assessing the Discriminatory Power of Noninvasive Quantification of

Myocardial Enddiastolic Wall Stress. World Congress on Medical Physics and Biomedical Engineering 2009- Munich.

39- Saleki, A. **Bitarafan-Rajabi**, N. yaghobi, B. Falahi, M. Ay .Quantification of the influence of misregistration between CT and SPECT images on the accuracy of CT-based attenuation correction of cardiac images in hybrid SPECT/CT systems. EANM Congress 2012 – Italy.

40- R Hedayati, H Malek, N Yaghoobi, F Rastgou, **A Bitarafan Rajabi**, H Amouzadeh, M Behnia, M Alvandi, A Khorami, N Tavakoli, H Firouzabadi, The relationship between retinopathy in diabetes mellitus type 2 with severity and extent of myocardial ischemia. 10th Asia Oceania Congress of Nuclear Medicine and Biology, Tehran, Iran 2012.

۴۱- بهاره بزرگ چچ، سعید ستایشی ، **احمد بیطرفان رجبی** ، حمید پور علی اکبر، علی محمدزاده ، نسرین گرکانی قطعه بندی خودکار عروق کرونر در تصاویر سه بعدی تشدید مغناطیسی پنجمین کنفرانس سلامت الکترونیکی و کاربردهای ICT در پزشکی ایران، ۱۳۹۱.

۴۲- بهاره بزرگ چمی ،سعید ستایشی ، **احمد بیطرفان رجبی** ، تشخیص تمام خودکار و قطعه بندی شریان های کرونری در تصاویر تشدید مغناطیسی سه بعدی با استفاده از فیلتر های چند مقیاسی، **دومین کنفرانس ملی محاسبات نرم و فناوری اطلاعات**، ۱۳۹۰ .

## Books

1- Statistical and Mathematical Techniques in Nuclear Medicine, 2001.

## Participant

1- IAEA Regional Meeting to Create a Network of Medical Professionals on Radiation Protection of Children (RAS9055) 15-17 December 2010 Venue: Anandhamahidol Building Faculty of Medicine, Chulalongkorn University (King Chulalongkorn Memorial Hospital), Bangkok, Thailand.

2- The SAFety in RADiological procedures reporting system (SAFRAD), RAS9055, 14-16 December 2011, Vienna, Austria.



مجلات علمی

1- احمد بیطرفان رجبی ، مجتبی صلوتی، فرانک سقطچی، PET، تشخیص تومور، ماهنامه مهندسی پزشکی و تجهیزات آزمایشگاهی، شماره ۷۰- بهمن ۱۳۸۵

2- مجتبی صلوتی، ، احمد بیطرفان رجبی ، سارا جباری، جواد احمدی، کاربرد لیزر در پزشکی و دندانپزشکی، ماهنامه مهندسی پزشکی و تجهیزات آزمایشگاهی، شماره ۷۱- اسفند ۱۳۸۵

3- احمد بیطرفان رجبی ، مجتبی صلوتی، فرانک سقطچی، کنترل کیفی و کالیبراسیون تجهیزات پزشکی هسته ای، ماهنامه مهندسی پزشکی و تجهیزات آزمایشگاهی، شماره ۶۶- مهر ۱۳۸۵

4- احمد بیطرفان، مجتبی صلوتی، فرانک سقطچی، آزمون های پذیرش در سیستم های پزشکی هسته ای، ماهنامه مهندسی پزشکی و تجهیزات آزمایشگاهی، شماره ۶۰- فروردین ۱۳۸۵

5- احمد بیطرفان رجبی ، مجتبی صلوتی، فرانک سقطچی، سارا جباری، سیکلوترون ها و سینکروترون ها، انواع و کاربرد آنها در پزشکی، ماهنامه مهندسی پزشکی و تجهیزات آزمایشگاهی، شماره ۸۴- فروردین ۱۳۸۷

6- احمد بیطرفان رجبی ، مجتبی صلوتی، فرانک سقطچی، سارا جباری، سیکلوترون های IBA و ویژگی آنها، ماهنامه مهندسی پزشکی و تجهیزات آزمایشگاهی، شماره ۸۵- اردیبهشت ۱۳۸۷

#### **Research Interest:**

- 1- Nuclear Medicine (Hot Lab instrumentation, Gamma Camera, SPECT, PET, SPECT/CT and PET/CT)**
- 2- Image processing and reconstruction**
- 3- Simulation with SimSET and Simind**
- 4- Quality control and acceptance test in the nuclear medicine system (dose calibrator, gamma camera, SPECT, PET, CT, MRI, Radiology, Echo and Angiography)**
- 5- Nuclear medicine techniques and correction methods (scatter, motion and attenuation)**
- 6- Personal Dosimetry (with TLD, G&M, Chamber ionization and Monte Carlo method)**
- 7-Planning for SPECT, PET, SPECT/CT, PET/CT, CT, MRI, Radiology and Angiography centers**
- 8- Radiation protection in nuclear medicine and angiography**