

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

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 Rasae, R Najafi, M Mazidi, M Shafiee, ZM Hasan, **A.Bitarafan-Rajabi** J Mohammad nejad, TM Altarihi, N Namvar, Radioimmunoscentigraphy 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.
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- 19) F. Kalantari, H. Rajabi, N. Yaghoobi, **A. Bitarafan-Rajabi**, Compensation of Cross-Contamination in Simultaneous 201Tl/99mTc Myocardial Perfusion SPECT Imaging. Iranian J Med Phys; 6(24&25): 58-71; 2009.
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- 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')₂ 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.

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- 26) Hadi Malek, Maryam Alvandi, Nahid Yaghoobi, Alireza ghavidel, Fereidoon rastgou, **Ahmad Bitarafan Rajabi H**. Hedieh Amouzadeh, Hasan Firoozabadi Evaluation of sternal wound infection after median sternotomy using 99mTc-labeled ubiquicidin 29-41. *Iranian Heart Journal (IHJ)*, 2013.
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- 28) H. Malek, N. Yaghoobi, F. Rastgou, **A. Bitarafan Rajabi**, M Alvandi, M. Kargar, H. Amouzadeh, Sh. Hosseini , H. Firoozabadi. Assessment of Myocardial Viability in Patients with Left Ventricular Dysfunction: Correlation between CT-Based Attenuation Correction and Uncorrected Quantification Analysis in Thallium201(201Tl) Rest-Redistribution SPECT Study. *Iranian Heart Journal (IHJ)*, 2013.
- 29) H. Malek, R. Hedayati, N. Yaghoobi, M. Behnia, F. Rastgou, **A. Bitarafan Rajabi**, H. Amouzadeh, Sh. Hosseini , H. Firoozabadi. The Relationship between Retinopathy in Diabetes Mellitus Type 2 and Severity and Extent of Myocardial Ischemia in Myocardial Perfusion Imaging . *Iranian Heart Journal (IHJ)*, 2013.
- 30) Mahsa Noori Asl, Alireza Sadremomtaz, **Ahmad Bitarafan-Rajabi**. Evaluation of six scatter correction methods based on spectral analysis in 99mTc SPECT imaging using SIMIND Monte Carlo simulation. *Journal of Medical Physics*, Vol. 38, No. 4, 2013.
- 31) Mehravar Rafati, **Ahmad Bitarafan-Rajabi** , Kamran Hami. Performance intima-media thickness of carotid artery and flow mediated dilation of brachial artery for assessing atherosclerosis progression. *Journal of Medical Imaging and Health Informatics*, 2014, in press.
- 32) **Ahmad Bitarafan-Rajabi**, Kazem Babazadeh, Hosein Poorbaygi, Shahab Sheibani, Mona Heidarali, Asghar Zare, Reza kiani, Hossien Barati, Amir Darbandi Azad. Hepatic radioembolisation of yttrium-90 Microspheres in animal model, *Journal of Nuclear Medicine & Radiation Therapy*, Submission.
- 33) **Ahmad Bitarafan-Rajabi**, Hossein Rajabi, Feridoon Rustgou, Hasan Firoozabady, Nahid Yaghoobi, Hadi Malek, Werner Langesteger, Mohsen Beheshti. Influence of respiratory motion correction on quantification of myocardial perfusion SPET. *Journal of nuclear cardiology*, 2014, Submission.

- 34) F. Rastgou, T. Ghaedian, M. Shojaeifard, A. Amin, H. Firoozabadi, H. Malek, N. Yaghoobi, **A. Bitarafan-Rajabi**, and, M. Haghjoo, H. Amouzadeh, H. Barati, Assessment of left ventricular mechanical dyssynchrony by phase analysis of gated-SPECT myocardial perfusion imaging and tissue Doppler imaging: Comparison between QGS and ECTb software packages *Journal of nuclear cardiology*, 2014, in press.
- 35) **Ahmad Bitarafan-Rajabi**, Hadi Hasanzadeh, Mahdi Jahangiri, Zohreh Hoseinpour, Hamideh Nazemi, Atefeh Baghian, Moghadeseh Mahdinejad, Majid Sadeghi, Hassan Moladoust, A New Sonographic Phantom for Quality Control and Training Purposes. *Arch Cardiovasc Imaging*. May; 2(2); 2014.
- 36) **Ahmad Bitarafan-Rajabi**, Fereydon Noohi, Hassan hashemi, Mohammad Miraftab, Nahid Yaghoobi, Fereydon Rastgou, Hadi Malek, Hoshang Faghihi, Hassan Firouzabadi, Soheila Asgari, Farhad rezvan, Hamidreza Khosravi, Mehdi Khabazkhour, Ionizing radiation- induced cataract in cardiology interventional staff during coronary interventional procedures *Journal of Clinical & Experimental Ophthalmology*, 2014, submission.
- 37) Mahsa Noori Asl, Alireza Sadremomtaz, **Ahmad Bitarafan-Rajabi**. Evaluation of Three Scatter Correction Methods Based on Estimation of Photopeak Scatter Spectrum in SPECT Imaging: A Simulation Study, *physica Medica*, 2014. in press
- 38) Zohreh Shahpouri, Alireza Kamali-Asl, **Ahmad Bitarafan-Rajabi**, Jakir Hossain, Seyed Mohammad Entezarmahdi, Samane Mohseni, Nahid Yaghoobi, Arman Rahmim. A Comparative Assessment of Dynamic and Conventional Thallium-201 SPECT Myocardial Perfusion Imaging: Monte Carlo Simulations and Case Studies. **Vol 1, No 2;91-102; 2014.**
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B. National and International Congress:

- 1- H. Rajabi, **A. Bitarafan-Rajabi**, N. Yagoobi, H. Firouzabadi F. Rastgou; Filter selection for ^{99m}Tc-sestamibi myocardial perfusion SPECT imaging; P71; EANM -August 2002.
- 2- **A Bitarafan-Rajabi**, H. Rajabi1, 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 ^{99m}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**, Savadkohi 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, 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 آدنوکارسینومی پستان موش با استفاده از یک آنتی بادی مونوکلونال ضد MUC1 جدید (PR81) نشاندار شده با ^{99m}Tc از طریق متیلن دی فسفونات، کنفرانس هسته ای ایران، ۳-۴ اسفند ماه ۱۳۸۴، مشهد

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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, University of Arthesh Medical Science Tehran, Iran

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Interventricular Septum by use of new proposed algorithm. 14th Biennial Congress for the Canadian Society for Biomechanics Department of Kinesiology, University of Waterloo August 16-19, 2006

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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.

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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.

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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 201Tl / 99mTc myocardial perfusion SPECT; 11th 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; 11th 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 Rasaee, **Ahmad Bitarafan**, Mohammad Shafiei, Mohammad Mazidi, Fariba Johari Daha, Evaluation of Breast Tumor Targeting with Radiolabeled 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 .Rasaee, , F. Johari Daha, H. Forootan, J. Mohammadnejad, A. Bitarafan, M .Shafiee. A New Biologic Radiopharmaceutical for Targeted Therapy of Breast Cancer: 177 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 چم، سعید ستایشی ، احمد بیطرفان رجبی، حمید پور علی اکبر، علی محمدزاده ، نسرین گرکانی قطعه بندی خودکار عروق کرونردر 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.

43- S. Mohseni, A. Bitarafan-Rajabi, A. Kamaliasl, S. M. Entezarmahdi, Z. Shahpouri, P. Segars, M. Bordbar; Evaluation of Ventricular Function by Gated Blood Pool SPECT: EANM Congress October 22, 2013.

44- S. Mohseni, A. Kamaliasl, **A. Bitarafan-Rajabi**, S. M. Entezarmahdi, N. Yaghoobi, Z. Shahpouri; The Effect of Filtrating and Reconstruction Method on Ventricular Function by the Gated Blood Pool SPECT. EANM Congress October 22, 2013.

45- Zohreh Shahpouri, **Ahmad Bitarafan-Rajabi**, Alireza Kamali Asl, Jakir Hossain, Arman Rahmim, Seyed Mohammad Entezarmahdi, Samane Mohseni, Nahid Yaghoob, Investigation of Accuracy of Dynamic Myocardial Perfusion 201-Thallium SPECT in comparison to Conventional Static Imaging. 5th International and 17th *Iranian Congress of Nuclear Medicine*, 2013.

46- Samane Mohseni, Alireza Kamaliasl, **Ahmad Bitarafan-Rajabi**, Seyed Mohammad Entezarmahdi, Nahid Yaghoobi , Zohre Shahpouri, Do different filtration methods affect on calculated volume and ejection fraction value by the GBPS? 5th International and 17th *Iranian Congress of Nuclear Medicine*, 2013.

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48- Azam Mehravar, **Ahmad Bitarafan-Rajabi**, Hadi Malek, Seyed Mohammad Entezarmahdi, Mona khaligh, Feasibility Study of Myocardial Perfusion Imaging with Fan-Beam in Comparison of Parallel-Hole Collimator. 5th International and 17th *Iranian Congress of Nuclear Medicine*, 2013.

49- M.Khaligh, **Ahmad Bitarafan-Rajabi**, Evaluation of respiratory motion on myocardial perfusion imaging (MPI) at the territory of the right coronary artery (RCA). 5th International and 17th *Iranian Congress of Nuclear Medicine*, 2013.

50- Azam Mehravar, **Ahmad Bitarafan**, Hadi Malek, Seyed Mohammad Entezarmahdi, Mona khaligh, Evaluation of HRFB Collimator Influence in improvement of Myocardial Perfusion SPECT: A simulation study. 5th International and 17th *Iranian Congress of Nuclear Medicine*, 2013.

51- Amini S, Khosravi H, Torkzadeh F, **Bitarafan A**, Aghaei Amirkhizi N, Pouladian M, Analysis of Absorbed Dose of Thyroid and Breasts of CT-Scan256 patients with the use of RANDO Phantom and TLD-100. 5th International and 17th *Iranian Congress of Nuclear Medicine*, 2013.

52- Zohreh Shahpouri, Alireza Kamali asl, **Ahmad Bitarafan-Rajabi**, Arman Rahmim, Seyed Mohammad Entezarmahdi, Samane Mohseni, Paul Segars, Evaluation of the 4D NCAT Phantom to Simulate Organ Dynamics. 5th International and 17th *Iranian Congress of Nuclear Medicine*, 2013.

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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**