
BIOGRAPHICAL SKETCH

NAME Hosang Jin	POSITION TITLE <i>Clinical Assistant Professor</i> (Department of Radiation Oncology)
eRA COMMONS USER NAME	<i>Adjunct Assistant Professor</i> (Department of Radiological Sciences) University of Oklahoma Health Sciences Center Oklahoma City, OK

EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Seoul National University, South Korea	B.S.	1994-2001	Nuclear Engineering
Catholic University of Korea, South Korea	M.S.	2001-2003	Medical Physics
University of Florida, FL	Ph.D.	2003-2008	Medical Physics
University of Florida, FL	Residency	2008-2010	Radiation Oncology Physics

A. Positions and Honors.

Professional Experience

01/2011 ~ present	Assistant Professor, Department of Radiation Oncology, University of Oklahoma Health Sciences Center (OUHSC), Oklahoma City, OK
04/2011 ~ present	Adjunct Assistant Professor, Department of Radiological Sciences, University of Oklahoma Health Sciences Center (OUHSC), Oklahoma City, OK
05/2012 ~ present	VA Physics contractor, Oklahoma City VAMC, Oklahoma City, OK

Certification American Board of Radiology (ABR) – Radiological Physics (Therapeutic)

Professional Affiliations

2004 ~ present	American Association of Physicists in Medicine (Full member since 2011)
	2015 ~ present: Member [WGIMRT] Work Group on IMRT
2005 ~ present	Korean Association of Medical Physicists in North America (KAMPiNA)
	2010~2013: Secretary of Administration

Honors and Awards

Fellowship & Scholarship

2003~2005	National Nuclear Fellowship of Korean Nuclear R&D Program, Korea Institute of Science & Technology Evaluation and Planning (KISTEP) and Ministry of Science & Technology (MOST)
2001~2002	Dept. of Biomedical Engineering Scholarship, Catholic University of Korea
1994~1996, 2000	Dept. of Nuclear Engineering Scholarship, Seoul National University
1994	Scholarship of Alumni association of Dept. of Nuclear Engineering, Seoul National University

Awards

2012	Superior Teaching Award in Medical Physics, Dept. of Radiological Sciences, OUHSC
2005	Young Medical Physicist Award, Korean Society of Medical Physicists
2004	Outstanding Academic Accomplishment, University of Florida International Center

B. Academic Services

JOURNAL REVIEWER

2011 ~ present Journal of Applied Clinical Medical Physics
2011 ~ present Medical Physics
2013 ~ present Radiation Oncology

MEDICAL PHYSICS GRADUATE PROGRAM - OUHSC

Didactics

2011 ~ present Production and Absorption of Ionizing Radiation (RADI5824) (teaching shared with other instructors)
2011 ~ present Directed Reading in Advanced Topics (RADI6960)
2012 ~ present Radiological Physics I (Therapy Track) (RADI6864) (teaching shared with other instructors)
2012 ~ present Special Studies (RADI6990)
2013 ~ present Radiation Protection and Shielding (RADI5102) (teaching shared with other instructors)

Committee services

2011 ~ present Curriculum Committee (Chair since 2016)
2016 ~ present Admission Committee
2016 ~ present Doctoral Advisory Committee
2016 ~ present Grievance Committee
2011 ~ 2015 Web page committee
2011 ~ 2015 Student Requirement Evaluation Committee
2012 ~ 2014 Graduate seminar coordinator

RADIATION ONCOLOGY RESIDENT TEACHING

2011 ~ present Medical and Clinical Physics Lectures, Department of Radiation Oncology, OUHSC (shared with other instructors)

MEDICAL PHYSICS RESIDENCY PROGRAM

Clinical rotation mentor

2011~ present Department of Radiation Oncology, OUHSC (shared with other instructors)

Committee services

2014 ~ present Chairman, Rotation Evaluation Committee, Dept. of Radiation Oncology, OUHSC
2011 ~ 2014 Chairman, Orientation and Appeal Committee, Dept. of Radiation Oncology, OUHSC
2011 ~ present Member, Curriculum and Rotations Committee, Dept. of Radiation Oncology, OUHSC

GRADUATE STUDENT SUPERVISION

M.S. Advisory committee chairman:

Sven Ferguson, graduated in 2016, OUHSC

Topic: Implementation of output prediction models for double scattering delivery in proton beam therapy

Vance P. Keeling, graduated in 2013, OUHSC

Topic: Comparison of QA delivery techniques and PDP dependency on spatial resolution in IMRT

C. Patents and Copyrights

Patents

2003 Co-inventor, Phantom for accuracy evaluation of image registration (Reg. No. 1005178890000), South Korea

Book Chapters

1. J. Palta, **H. Jin**, S. Kim, (2011), Chapter 12 Developing a Rationale for Tolerance Values and Action Levels for the Performance of Planning and Delivery, in *Uncertainties in External Beam Radiation*

Therapy (AAPM 2011 Summer School) American Association of Physicists in Medicine Medical Physics Monograph No. 35 (pp. 271-290). Madison: WI: Medical Physics Publishing

2. S. Kim, **H. Jin**, J. Palta, (2011), Chapter 13 Model Planning and Delivery Uncertainties, in *Uncertainties in External Beam Radiation Therapy (AAPM 2011 Summer School) American Association of Physicists in Medicine Medical Physics Monograph No. 35 (pp. 291-316). Madison: WI: Medical Physics Publishing*

D. Clinical Experience

- Experienced with various radiotherapy treatment systems (Varian TrueBeam STx, 21E, 2100C/D, Elekta Synergy with XVI, HDR Nucletron microSelectron, LDR brachytherapy, IBA Proton Therapy Machine, and Mevion S250 Proton Therapy System),
- Treatment planning for conventional RT, IMRT, Proton RT, and LDR/HDR brachytherapies (Philips Pinnacle³, Varian Eclipse, CMS XiO, Oncentra MasterPlan, and Varian VariSeed), patient setup/immobilization devices: BrainLab ExacTrac and Vision RT (Align RT)
- Dosimetric devices: Sun Nuclear MapCheck/MapCheck2, Profiler2, and IBA MatriXX for machine and patient-specific QA. Adept in radiochromic and radiographic film and TLD dosimetry
- Mechanical QA of Linac-based SRS, patient setup using Elekta XVI cone-beam CT system, confident in routine mechanical QAs for linac and proton machine
- Varian ARIA and Mosaiq information management system.

E. Publications and Presentations

Peer-Reviewed Journal Publications

1. S. Ferguson, Y. Chen, C. Ferreira, M. Islam, V. Keeling, A. Lau, S. Ahmad, and **H. Jin** (corresponding author), *Comparability of three output prediction models for a compact passively double-scattered proton therapy system*, J Appl Clin Med Phys, 2017 (accepted).
2. S. Ferguson, S. Ahmad, **H. Jin** (corresponding author), *Implementation of output prediction models for a passively double-scattered proton therapy system*. Med Phys, 43(11): 6089, 2016.
3. V. Keeling, S. Hossain, **H. Jin**, O. Algan, S. Ahmad and I. Ali, *Quantitative evaluation of patient setup uncertainty of stereotactic radiotherapy with the frameless 6D-ExacTrac system using statistical modeling*, J Appl Clin Med Phys, 17(3): 111-127, 2016.
4. **H. Jin**, V. Keeling, I. Ali, and S. Ahmad, *Dosimetric effects of positioning shifts using 6D-frameless stereotactic BrainLAB system in hypo-fractionated intracranial radiotherapy*, J Appl Clin Med Phys, 17(1): 102-111, 2016.
5. **H. Jin**, F. Jesseph, and S. Ahmad, *A Comparison Study of Volumetric Modulated Arc Therapy Quality Assurances Using Portal Dosimetry and MapCHECK 2*, Prog Med Phys, 25(2):65-71, 2014.
6. **H. Jin**, V. Keeling, D. Johnson, and S. Ahmad, *Interplay effect of angular dependence and calibration field size of MapCHECK 2 on RapidArc quality assurance*, J Appl Clin Med Phys, 15(3):80-92, 2014.
7. V. Keeling, S. Ahmad, O. Algan and **H. Jin** (corresponding author), *Dependency of planned dose perturbation (PDP) on the spatial resolution of MapCHECK 2 detectors*, J Appl Clin Med Phys, 15(1):100-117, 2014.
8. V. Keeling, S. Ahmad, and **H. Jin** (corresponding author), *A comprehensive comparison study of three different planar IMRT QA techniques using MapCHECK 2*, J Appl Clin Med Phys, 14(6):222-233, 2013.
9. **H. Jin**, W. Hsi, D. Yeung, Z. Li, and N. Mendenhall, *Dosimetric characterization of whole brain radiotherapy of pediatric patients using modulated proton beams*, J Appl Clin Med Phys, 12(2): 71-83, 2011
10. **H. Jin**, J. Palta, Y. Kim, and S. Kim, *An application of a novel dose uncertainty model for dose-uncertainty analysis in prostate IMRT*, Int J Radiat Oncol Biol Phys, 78(3): 920-928, 2010
11. S. Kim, **H. Jin**, H. Yang, R. J. Amdur, *A study on target displacement and its impact on dose variation in image-guided stereotactic body radiation therapy for the spine*, Int J Radiat Oncol Biol Phys, 73 (5): 1574-1579, 2009
12. **H. Jin**, J. Palta, T. S. Suh, and S. Kim, *A generalized a priori dose uncertainty model of IMRT delivery*, Med Phys.35(3): 982- 996, 2008
13. H. Chung, **H. Jin**, J. Palta J, T. S. Suh, and S. Kim, *Dose variations with varying calculation grid size in head and neck IMRT*, Phys Med Biol., 51(19):4841-4856, 2006
14. J. W. Sohn, D. B. Mansur, J. I. Monroe, R. E. Drzymala, **H. Jin**, T. Suh, J. F. Dempsey, and E. E. Klein, *Computer assisted EPID analysis of breast intrafractional and interfractional positioning error*, Korean Journal of Medical Physics, 17(1): 24-31, 2006

15. **H. Jin**, H. Chung, C. Liu, J. Palta, T. Suh, and S. Kim, *A Novel Dose Uncertainty Model And Its Application For Dose Verification*, Med Phys, 32 (6): 1747-1756, 2005
16. K. Cheong, T. S. Suh, B. C. Cho, and **H. Jin**, *Monte Carlo photon and electron dose calculation time resolution using local least square denoising filters*, Korean Journal of Medical Physics, 16 (3): 138-147, 2005
17. H. Chung, **H. Jin**, J. Dempsey, C. Liu, J. Palta, T. S. Suh, and S. Kim, *Evaluation of Surface and Build-Up Region Dose for Intensity-Modulated Radiation Therapy in Head and Neck Cancer*, Med Phys, 32(8): 2682-2689, 2005
18. **H. Jin**, J. Song, R. Juh, S. Chung, B.Y. Choe, H. K. Lee, and T. S. Suh, *Accuracy Evaluation of Three-Dimensional Multimodal Image Registration Using a Brain Phantom*, J. Biomed. Eng. Res. 25 (1): 33-41, 2004
19. J. Chung, W. Chung, T. S. Suh, G. Choi, **H. Jin**, Y. Ji, *The Clinical Effect and Construction of a Stereotactic Whole Body Immobilization Device*, Korean Journal of Medical Physics, 15 (1): 30-38, 2004
20. **H. Jin**, J. W. Sohn, T. S. Suh, B. Y. Choe, and H. K. Lee, *Quality Assurance of Multileaf Collimator Using Electronic Portal Imaging*, Korean Journal of Medical Physics, 14 (3): 151-160, 2003
21. K. Cheong, T. S. Suh, **H. Jin**, H. K. Lee, and B. Y. Choe, *Three Dimensional Target Volume Reconstruction from Multiple Projection Images*, Korean Journal of Medical Physics, 14 (3): 167-174, 2003
22. **H. Jin**, D. H. Shin, S. N. Huh, C. Kwark, B. Y. Choe, H. K. Lee, and T. S. Suh, *Simulation Study for the Distortion Correction of Digital Angiographic Images using Geometric Transformation*, J. Biomed. Eng. Res. 23 (5): 365-373, 2002

Invited Talks

1. **H. Jin**, Current status and future direction of compact proton beam therapy systems, 1st symposium, Medical Particle beam research group, Korean Society of Medical Physics, Seoul, South Korea, June 10, 2016.
2. **H. Jin**, Patient DVH-based QA metrics, AAPM Southwest Chapter 2012 spring meeting, Mar 29-31, 2012, Oklahoma City, OK.

Presentations in Conferences

1. **H. Jin** and S. Ahmad, *Evaluation of surface dose for various treatment sites using Mevion S250 passively scattered proton therapy system*, 2017 AAPM Annual Meeting, Jul 30 –Aug 3, 2017, Denver, CO.
2. **H. Jin** and S. Ahmad, *Feasibility study of quality assurance of proton range compensator using the proximal side of spread-out Bragg peak*, 2017 AAPM Annual Meeting, Jul 30 –Aug 3, 2017, Denver, CO.
3. K. Depew, S. Ahmad and **H. Jin** (corresponding author), *Accuracy of the Eclipse pencil-beam algorithm in small fields for a passively scattered proton therapy*, 2017 AAPM Annual Meeting, Jul 30 –Aug 3, 2017, Denver, CO.
4. K. Harpool, **H. Jin**, E. Schnell, T. Herman, S. Ahmad and T. Dela Fuente Herman, *Dosimetric Evaluation of Conventional Proton Plans Against IMRT and VMAT Photon Plans for Pancreatic Cancer*, 2017 AAPM Annual Meeting, Jul 30 –Aug 3, 2017, Denver, CO.
5. A. Munshi, J. Griffith, **H. Jin**, O. Algan, S. Ahmad, T. S. Herman, *Biological Effects of proton and photon radiation in non-small cell lung cancer cell lines*, ASTRO's 58th Annual Meeting, September 25-28, 2016, Boston, MA,.
6. **H. Jin**, S. Ahmad, Y. Chen, V Keeling, A. Lau, M. Islam, C. Ferreira, and S. Ferguson, *Commissioning of a Single-Room Double-Scattering Proton Therapy System*, 2016 AAPM Annual Meeting, Jul 31 –Aug 4, 2016, Washington, DC.
7. M. Islam, S. Ahmad, and **H. Jin** (corresponding author), *Out-Of-Beam Dose for a Compact Double-Scattering Proton Beam Therapy System*, 2016 AAPM Annual Meeting, Jul 31 –Aug 4, 2016, Washington, DC.
8. S. Ferguson, S. Ahmad, Y. Chen, C. Ferreira, M. Islam, V. Keeling, A. Lau, and **H. Jin** (corresponding author), *Implementation of a Correction-Based Output Model for a Compact Passively Scattered Proton Therapy System*
9. M. Islam, O. Algan, **H. Jin**, S. Ahmad, S. Hossain, *Preliminary Approach of Reducing Contralateral Breast and Heart Dose in Left Sided Whole Breast Cancer Patients Utilizing Proton Beams*, 2016 AAPM Annual Meeting, Jul 31 –Aug 4, 2016, Washington, DC.
10. M. Prusator, **H. Jin**, S. Ahmad, and Y. Chen, *Comparing Monte Carlo Simulations with Commissioning Beam Data for Mevion S250 Proton Therapy System*, 2016 AAPM Annual Meeting, Jul 31 –Aug 4, 2016, Washington, DC.
11. S Ferguson, Y Chen, C Ferreira, M Islam, V Keeling, A Lau, S Ahmad, **H. Jin** (corresponding author), *Comparability of Three Output Prediction Models for a Compact Passively Scattered Proton Therapy System*, 2016 AAPM Spring Clinical Meeting, March 5 - 8, 2016, Salt Lake City, UT.
12. M. Islam, **H. Jin**, S. Ferguson, and S. Ahmad, *Dosimetric Effects of Couch Top Shift on VMAT Delivery in Absence of Indexing*, AAPM, 57th Annual Meeting, July 12-16, 2015, Anaheim, CA.
13. **H. Jin**, F. Jesseph and S. Ahmad *on Comparison of Fluence-Based RapidArc QAs Using EPID and mapCheck2*, AAPM, 56th Annual Meeting, July 20-24, 2014, Austin, TX.
14. V. Keeling, **H. Jin**, S. Hossain, S. Ahmad and I. Ali, *Quantitative Investigation of Random and Systematic Uncertainties From Hardware and Software Components in the Frameless 6D-BrainLAB ExacTrac System*, AAPM, 56th Annual Meeting, July 20-24, 2014, Austin, TX.

15. V. Keeling, **H. Jin**, I. Ali and S. Ahmad, *Dosimetric Impact of Positioning Errors in Hypo-Fractionated Cranial Radiation Therapy Using Frameless Stereotactic BrainLAB System*, AAPM, 56th Annual Meeting, July 20-24, 2014, Austin, TX.
16. F. Jesseph, **H. Jin**, and S. Ahmad, *2D Off-axis Corrections for EPID-based RapidArc QAs at Four Energies*, AAPM Spring Clinical Meeting, March 15-18, 2014, Denver, CO.
17. **H. Jin**, V. Keeling, and S. Ahmad, *Effect of Energy and Field Size On Angular Dependence of a 2D Diode Array*, AAPM, 55th Annual Meeting, August 4-8, 2013, Indianapolis, IN.
18. **H. Jin**, I. Ali, V. Keeling, and S. Ahmad, *Investigation of Clinically Relevant Dose of Small Field Brain IMRT Using Planned Dose Perturbation*, AAPM, 54th Annual Meeting, July 29-Aug 2, 2012, Charlotte, NC.
19. **H. Jin** and Z. Su, *A Comprehensive Evaluation of Real-Time Motion Tracking of a Surface Imaging System for Lung Treatment*, AAPM, 54th Annual Meeting, July 29-Aug 2, 2012, Charlotte, NC.
20. V. Keeling, S. Ahmad, and **H. Jin** (*corresponding author*), *Comparability of Four Different Planar IMRT QA Methods*, AAPM, 54th Annual Meeting, July 29-Aug 2, 2012, Charlotte, NC.
21. V. Keeling, S. Ahmad, and **H. Jin** (*corresponding author*), *A comparison study of three planar IMRT QA methods*, AAPM Southwest Chapter 2012 spring meeting, Mar 29-31, 2012, Oklahoma City, OK.
22. **H. Jin**, Z. Su, R. Slopsma, and Z. Li, *Dose and Range Perturbation by LiF TLD-100 in Proton Beam Therapy*, AAPM, 53rd Annual Meeting, July 31-Aug 4, 2011, Vancouver, Canada
23. S. Huh, N. Xu, M. Ho, **H. Jin**, Z. Li, and N. Mendenhall, *Feasibility study and clinical application of partial Cone beam computed tomography (pCBCT) for boost breast treatment in RT*, AAPM, 52nd Annual meeting, July 17-22, 2010, Philadelphia, PA
24. **H. Jin** and S. Huh, *Improvement of Patient Setups with Cone Beam CT Using Contour-Assisted Matching in Radiotherapy*, AAPM, 51st Annual Meeting, July 26-30, 2009, Anaheim, CA
25. **H. Jin**, S. Huh, C. Toramatsu, Z. Li, and R. Malyapa, *Dosimetric Verification of Ultra Small Fields of Image-Guided Linac-Based Stereotactic Radiosurgery*, AAPM, 51th Annual Meeting, July 26-30, 2009, Anaheim, CA
26. S. Huh, **H. Jin**, Z. Li, A. Chvestov, R. Malyapa and N Mendenhall, *Cone beam CT-based stereotactic radiosurgery system (SRS) with AlignRTTM*, 9th Biennial Congress and Exhibition of the International Stereotactic Radiosurgery Society, June 7-11, 2009, Seoul, South Korea
27. **H. Jin**, J. Palta, T. Suh, and S. Kim, *A generalized dose uncertainty model and its application to dose verification*, AAPM, 49th Annual Meeting, July 22-26, 2007, Minneapolis, MN
28. K. Olivier, H. Chung, **H. Jin**, H. Yang, S. Kim, *Intra-Fraction Patient Displacement During Image-Guided Stereotactic Body Radiation Therapy (IGSBRT) for Lung Treatment*, ASTRO's 48th Annual Meeting, November 5-9, 2006, Philadelphia, PA
29. S. Kim, H. Chung, **H. Jin**, H. Yang, R.J. Amdur, *A Study on Intra-Fraction Displacement of Image Guided Stereotactic Body Radiation Therapy for Spine Treatment*, ASTRO's 48th Annual Meeting, November 5-9, 2006, Philadelphia, PA
30. **H. Jin**, H. Chung, T. Suh, J. Palta, and S. Kim, *A new paradigm of IMRT plan evaluation with uncertainty volume histogram (UVH)*, World Congress on Medical Physics and Biomedical Engineering, Aug. 27-Sep. 1, 2006, Seoul, South Korea
31. **H. Jin**, Z. Su, H. Chung, J. Palta, and S. Kim, *IMRT dose verification using the dose uncertainty prediction model*, WC on Medical Physics and Biomedical Engineering, Aug. 27-Sep. 1, 2006, Seoul, South Korea
32. S. Kim, H. Chung, **H. Jin**, H. Yang, and R. J. Amdur, *An image guided stereotactic body radiation therapy (IGSBRT) program of single fraction spine treatment*, WC on Medical Physics and Biomedical Engineering, Aug. 27-Sep. 1, 2006, Seoul, South Korea
33. H. Chung, **H. Jin**, J. Palta, and S. Kim, *Characterization of a commercial add-on couch, HexaPODTM 6D Robotic Treatment CouchTOP*, WC on Medical Physics and Biomedical Engineering, Aug. 27-Sep. 1, 2006, Seoul, South Korea
34. Z. Su, **H. Jin**, C. Fox, H. Li, B. Lynch, C. Yang, J. Li, C. Liu, J. Palta, and S. Kim *A Systematic Analysis of Patient Specific IMRT QA Data*, AAPM, 48th Annual Meeting, July 30-Aug. 3, 2006, Orlando, FL
35. **H. Jin**, H. Chung, T. Suh, J. Palta, and S. Kim, *Application of dose uncertainty model for plan evaluation*, AAPM, 48th Annual Meeting, July 30-Aug. 3, 2006, Orlando, FL
36. H. Chung, **H. Jin**, T. Suh, J. Palta, and S. Kim, *Mechanical Accuracy of A Robotic Couch*, AAPM, 48th Annual Meeting, July 30- Aug.3, 2006, Orlando, FL
37. S. Kim, **H. Jin**, H. Chung, C. Liu, J. Palta, and T. Suh, *Uncertainty Volume Histogram: An Evaluation Tool of Radiation Treatment Planning Using Dose Uncertainty Model*, 14th ICMP, Sept. 14-17, 2005, Nuremberg, Germany
16. S. Kim, H. Chung, **H. Jin**, C. Liu, J. Palta, and T. Suh, *Laser-Guided Interactive Patient Immobilization System for the Brain or Head and Neck Treatment*, 14th ICMP, Sept. 14-17, 2005, Nuremberg, Germany
38. **H. Jin**, S. Kim, H. Chung, J. Palta, and T. Suh, *Analyzing the accuracy of IMRT dose distributions using a dose uncertainty model*, AAPM, 47th Annual Meeting, July 24-28, 2005, Seattle, WA
39. H. Chung, S. Kim, **H. Jin**, C. Liu, J. Palta, and T. Suh, *The Impact of Calculation Grid Size On the Accuracy of IMRT Dose Distribution*, AAPM, 47th Annual Meeting, July 24-28, 2005, Seattle, WA

40. H. Chung, S. Kim, **H. Jin**, J. Dempsey, C. Liu, J. Palta, and T. Suh, *Skin and Superficial Doses in MLC-Based Head and Neck IMRT*, AAPM, 46th Annual Meeting, July 25-29, 2004, Pittsburgh, PA
41. J. W. Sohn, S. Kim, A. Chvetsov, T. S. Suh, **H. Jin**, J. Farr, "Three-dimensional surface image registration for image-guided IMRT to breast," AAPM, 46th Annual meeting, July 25-29, 2004, Pittsburgh, PA
42. S. Kim, **H. Jin**, H. Chung, J. Palta, S. J. Ye, *Potential Uncertainty – Information that was forgotten*, 14th International Conference on the Use of Computers in Radiation Therapy, May 10-13, 2004, Seoul, South Korea
43. **H. Jin**, Jason W. Sohn, T. S. Suh, *Automatic Multileaf Collimation Quality Assurance for IMRT using Electronic Portal Imaging*, Korean Society of Medical Biological Engineering (KOSOMBE), Spring Annual Meeting, 2003, South Korea
44. **H. Jin**, T. S. Suh, R. H. Juh, J. Y. Song, C. B. Y. Choe, H .G. Lee, C. Kwark, *Accuracy of Image Registration for Radiation Treatment Planning using a Brain Phantom*, AAPM, 44th Annual Meeting, July 14-18, 2002, Montreal, Canada
45. **H. Jin**, J. W. Sohn, and T. S. Suh, *Automatic Multileaf Collimation Quality Assurance for IMRT using Electronic Portal Imaging*, The 3rd KOREA-JAPAN Joint Meeting on Medical Physics, Sept.26-28, 2002, South Korea
46. **H. Jin**, Jason W. Sohn, T. S. Suh and C Kwark, *Detection of Intra/Inter-Setup Error of Breast during Fractional radiation therapy using Electronic Portal Imaging*, KOSOMBE, Spring Annual Meeting, 2002, South Korea
47. **H. Jin**, T. S. Suh, C Kwark and D.H. Shin, *Distortion Correction of Digital Subtraction Angiographic Images using Geometric Transformation*, Korean Society of Medical Physicists, Fall Annual Meeting, Scientific Session E, pp.31, 2001, South Korea
48. **H. Jin**, T. S. Suh and C Kwark, *Simulation Study for the Distortion Correction of Digital Angiographic Images Using Geometric Transformation*, KOSOMBE, Fall Annual Meeting, 2001, South Korea