

Curriculum vitae

Name: Iori Sumida
Place of birth: Osaka, JAPAN
Current work place: Accuray, Japan. Division of Marketing and clinical solutions.
Title: Senior Director
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Language: Japanese, English



Education

Osaka University, Division of Health Sciences.

Apr. 1995 – Mar. 1999. Title: Bachelor degree (BS).

Thesis title: Analysis of primary x-ray spectrum of CT system.

Osaka University Graduate School of Medicine, Division of Health Sciences.

Apr. 1999 – Mar. 2001. Title: Master degree (MS).

Thesis title: Image characteristics of flat panel detector.

Osaka University Graduate School of Medicine, Department of Radiation Oncology.

Apr. 2001 – Mar. 2005. Title: Doctor degree (PhD).

Thesis title: An optimization algorithm of dose distribution using Attraction-Repulsion Model (Application to low-dose-rate interstitial brachytherapy)

University of California, San Francisco. Comprehensive Cancer Center.

Jul. 2003 – Apr. 2004. Visiting scholar supervised by Jean Pouliot.

Work experience

Osaka University Graduate School of Medicine, Department of Radiation Oncology.

Apr. 2005 – Dec. 2005. Medical physics researcher.

Cancer Institute Hospital, Department of Radiation Oncology.

Jan. 2006 – Apr. 2007. Chief medical physicist. Mainly clinical medical physics work.

Osaka University Graduate School of Medicine, Department of Radiation Oncology.

May. 2007 – Mar. 2011. Assistant professor, Chief medical physicist.

Supervise of clinical medical physics training and research for graduate students, and clinical work.

Osaka University Graduate School of Dentistry, Department of Diagnostic Imaging and Radiotherapy.

Apr. 2011 – Mar. 2013. Assistant professor, Chief medical physicist.

Supervise of clinical medical physics training and research for graduate students, and clinical work.

Osaka University Graduate School of Medicine, Department of Radiation Oncology.

Apr. 2013 – Sep. 2013. Assistant professor, Chief medical physicist.

Oct. 2013 – Mar. 2021. Lecturer, Chief medical physicist.

Supervise of clinical medical physics training and research for graduate students, and clinical work.

Accuray Japan. Division of Physics and clinical support.

Apr. 2021 – Sep. 2022. Director

Accuray Japan. Division of Marketing and clinical solutions.

Oct. 2022 – present. Senior Director

Qualification

National license: Radiation therapist #50195 from Aug. 2000

Japanese Board of Medical Physicist Qualification: Medical physicist (therapeutic) #228 from Oct. 2004

Clinical experience of medical physics: 15 years

This qualification is compliant with the ABR certification.

Reference site <http://www.jbmp.org/english/>

Committee of society

Japanese Board of Medical Physicist Qualification (JBMP)

Board-certified committee of medical physics educational course

Japan Society of Medical Physics (JSMP)

Director, Representative, QA committee

Japanese Society for Radiation Oncology (JASTRO)

Representative, Vice chair of QA committee, Medical physicist committee

The Japanese College of Medical Physics (JCMP)

Councilor, Educational committee

Computer Assisted Radiology and Surgery (CARS)

Program committee

Journal Service

Associate editor

Journal of radiation research

Radiological physics and technology

Referee

Med Phys

Int J Radiat Oncol Biol Phys

Br J Radiol

Physica Medica

J Radiat Res

Artificial Intelligence In Medicine

Quantitative Imaging in Medicine and Surgery

Radiol Phys Technol

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Peer review paper

1. Shimamoto S, Inoue T, Shiomi H, Sumida I, Yamada Y, Tanaka E, Inoue T. Cyberknife stereotactic irradiation for metastatic brain tumors. *Radiat Med.* 20,299-304 (2002).
2. Yamada Y, Shiomi H, Sumida I, Suzuki O, Isohashi F, Oh RJ, Tanaka E, Inoue T, Nakamura H. Quantitative evaluation of the changes of the irradiated lung fields after stereotactic irradiation with the polygon method. *Radiat Med.* 22,98-105 (2004).
3. Sumida I, Shiomi H, Lessard E, Hsu I-C, Pouliot J. Optimization of dose distribution for HDR brachytherapy of the prostate using attraction-repulsion model. *RSNA 90th proceedings.* (2004).
4. Sumida I, Shiomi H, Oh RJ, Tanaka E, Isohashi F, Inoue T, Inoue T. An optimization algorithm of dose distribution using attraction-repulsion model (application to low-dose-rate interstitial brachytherapy). *Int J Radiat Oncol Biol Phys.* 59,1217-1223 (2004).
5. Sumida I, Takahashi Y, Nose T, Ito A, Yamashita T. Optimization of dose distribution for HDR brachytherapy of the prostate using attraction-repulsion model. *AAPM 48th proceedings.* (2006).
6. Sumida I, Shiomi H, Yoshioka Y, Inoue T, Lessard E, Hsu I-C, Pouliot J. Optimization of dose distribution for HDR brachytherapy of the prostate using attraction-repulsion model. *Int J Radiat Oncol Biol Phys.* 64,643-649 (2006).
7. Oh R-j, Yoshioka Y, Tanaka E, Sumida I, Isohashi F, Suzuki O, Konishi K, Kawaguchi Y, Nakamura S, Kato M, Inoue T. High-dose-rate brachytherapy combined with long-term hormonal therapy for high-risk prostate cancer: results of a retrospective analysis. *Radiat Med.* 24,58-64 (2006).
8. Takahashi Y, Ito A, Sumida I, Kozuka T, Gomi K, Nose T, Ito T, Yamashita T. Dosimetric consideration of individual ¹²⁵I source strength measurement and a large-scale comparison of that measured with a nominal value in permanent prostate implant brachytherapy. *Radiat Med.* 24,675-679 (2006).
9. Nose T, Komoike Y, Yoshida K, Koizumi M, Motomura K, Kasugai T, Inaji H, Nishiyama K, Koyama H, Kozuka T, Gomi K, Oguchi M, Akahashi Y, Sumida I, Yamashita T. A pilot study of wider use of accelerated partial breast irradiation: intraoperative margin-directed re-excision combined with sole high-dose-rate interstitial brachytherapy. *Breast Cancer.* 13,289-299 (2006).
10. Yoshioka Y, Konishi K, Oh RJ, Sumida I, Yamazaki H, Nakamura S, Nonomura N, Okuyama A, Inoue T. High-dose-rate brachytherapy without external beam irradiation for locally advanced prostate cancer. *Radiother Oncol.* 80,62-68 (2006).
11. Ito A, Takahashi Y, Sumida I, Yunoki A, Hino Y. Standard dosimetry of ¹²⁵I seeds against prostate cancer. *IFMBE proceedings.* 14,2076-2078 (2007).
12. Sumida I, Takahashi Y, Ito A, Nose T, Oguchi M, Yamashita T, Yoshioka Y, Inoue T. Verification of the source tech medical model STM1251 I-125 air kerma strength in Japan. *AAPM 49th proceedings.* (2007).
13. Nose T, Koizumi M, Yoshida K, Nishiyama K, Sasaki J, Ohnishi T, Kozuka T, Gomi K, Oguchi M,

- Sumida I**, Takahashi Y, Ito A, Yamashita T. In vivo dosimetry of high-dose-rate interstitial brachytherapy in the pelvic region: use of a radiophotoluminescence glass dosimeter for measurement of 1004 points in 66 patients with pelvic malignancy. *Int J Radiat Oncol Biol Phys.* 70,626-633 (2008).
14. **Sumida I**, Konishi K, Shiomi H, Isohashi F, Yoshioka Y, Inoue T. Evaluation of planned dose using measured source strength for permanent prostate implant. *AAPM 50th proceedings.* (2008).
 15. Isohashi F, Yoshioka Y, Kouzumi M, Konishi K, **Sumida I**, Takahashi Y, Ogata T, Morishige K, Enomoto T, Kawaguchi Y, Kotsuma T, Adachi K, Fukuda S, Akino Y, Inoue T. High-dose-rate interstitial brachytherapy for previously untreated cervical carcinoma. *Brachytherapy.* 8,234-239 (2009).
 16. Konishi K, Yoshioka Y, Isohashi F, **Sumida I**, Kawaguchi Y, Kotsuma T, Adachi K, Morimoto M, Fukuda S, Inoue T. Correlation between dosimetric parameters and late rectal and urinary toxicities in patients treated with high-dose-rate brachytherapy used as monotherapy for prostate cancer. *Int J Radiat Oncol Biol Phys.* 75,1003-1007 (2009).
 17. **Sumida I**, Koizumi M, Takahashi Y, Ogata T, Akino Y, Isohashi F, Konishi K, Yoshioka Y, Inoue T. Verification of air-kerma strength of ¹²⁵I seed for permanent prostate implants in Japan. *Int J Clin Oncol.* 14,525-528 (2009).
 18. Takahashi Y, Koizumi M, **Sumida I**, Ogata T, Akino Y, Yoshioka Y, Konishi K, Isohashi F, Ota S, Inoue T. What is the optimum minimum segment size used in step and shoot IMRT for prostate cancer? *J Radiat Res.* 51,543-552 (2010).
 19. **Sumida I**, Koizumi M, Takahashi Y, Ogata T, Akino Y, Konishi K, Isohashi F, Yoshioka Y, Inoue T. Feasibility study for high-energy radiotherapy photon beams using radiochromic film postal dosimetry audit between multi-institutions. *Int J Radiat Oncol Biol Phys proceedings.* 1,842 (2010).
 20. Ogata T, Koizumi M, **Sumida I**, Takahashi Y, Akino Y, Isohashi F, Konishi K, Yoshioka Y, Inoue T. Weekly verification of dosimetric data for virtual wedge using a 2D diode detector array. *Med Dosim.* 36,246-249 (2011).
 21. Yoshioka Y, Konishi K, **Sumida I**, Takahashi Y, Isohashi F, Ogata T, Koizumi M, Yamazaki H, Nonomura N, Okuyama A, Inoue T. Monotherapeutic high-dose-rate brachytherapy for prostate cancer: Five-year results of an extreme hypofractionation regimen with 54 Gy in 9 fractions. *Int J Radiat Oncol Biol Phys.* 80,469-475 (2011).
 22. Akino Y, Koizumi M, **Sumida I**, Takahashi Y, Ogata T, Ota S, Isohashi F, Konishi K, Yoshioka Y. Megavoltage cone beam computed tomography dose and the necessity of reoptimization for imaging dose-integrated intensity-modulated radiotherapy for prostate cancer. *Int J Radiat Oncol Biol Phys.* 82,1715-1722 (2012).
 23. **Sumida I**, Yamaguchi H, Kizaki H, Ogata T, Takahashi Y, Yoshioka Y. Quality assurance of MLC leaf position accuracy and relative dose effect at the MLC abutment region using an

electronic portal imaging device. *J Radiat Res.* 53,798-806 (2012).

24. Takahashi Y, Koizumi M, Sumida I, Isohashi F, Ogata T, Akino Y, Yoshioka Y, Maruoka S, Inoue S, Konishi K, Ogawa K. The usefulness of an independent patient-specific treatment planning verification method using a benchmark plan in high-dose-rate intracavitary brachytherapy for carcinoma of the uterine cervix. *J Radiat Res.* 53,936-944 (2012).
25. Kakimoto N, Tamaki J, Chidasombatjaroen J, Tsujimoto T, Kataoka M, Tomita S, Shimamoto H, Sumida I, Nakatani A, Uchiyama Y, Murakami S, Furukawa S. Effects of cepharanthine with or without Z-100 against leucopenia during radiation therapy for oral cancer. *Oral Radiol.* 28,115-120 (2012).
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29. Sumida I, Yamaguchi H, Kizaki H, Aboshi K, Yamada Y, Yoshioka Y, Ogawa K. Three-dimensional dose prediction based on two-dimensional verification measurements for IMRT. *J Appl Clin Med Phys.* 15,133-146 (2014).
30. Tamari K, Suzuki O, Hashimoto N, Kagawa N, Fujiwara M, Sumida I, Seo Y, Isohashi F, Yoshioka Y, Yoshimine T, Ogawa K. Treatment outcomes using CyberKnife for brain metastases from lung cancer. *J Radiat Res.* 56,151-158(2015).
31. Fujiwara M, Isohashi F, Mabuchi S, Yoshioka Y, Seo Y, Suzuki O, Sumida I, Hayashi K, Kimura T, Ogawa K. Efficacy and safety of nedaplatin-based concurrent chemoradiotherapy for FIGO Stage IB2-IVA cervical cancer and its clinical prognostic factors. *J Radiat Res.* 56,305-314 (2015).
32. Sumida I, Yamaguchi H, Kizaki H, Aboshi K, Tsujii M, Yamada Y, Yagi M, Ogawa K. Incorporation of gantry angle correction for three-dimensional dose prediction in intensity-modulated radiation therapy. *J Radiat Res.* 56,594-605 (2015).
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34. Sumida I, Yamaguchi H, Kizaki H, Aboshi K, Tsujii M, Yoshikawa N, Yamada Y, Suzuki O, Seo Y, Isohashi F, Yoshioka Y, Ogawa K. Novel radiobiological gamma index for the evaluation of three-dimensional predicted dose distribution. *Int J Radiat Oncol Biol Phys.* 92,779-786 (2015).

35. Hayashi K, Isohashi F, Akino Y, Wakai N, Mabuchi S, Suzuki O, Seo Y, Ootani Y, Sumida I, Yoshioka Y, Kimura T, Ogawa K. Estimation of the total rectal dose of radical external beam and intracavitary radiotherapy for uterine cervical cancer using the deformable image registration method. *J Radiat Res.* 56,546-552 (2015).
36. Inohara H, Takenaka Y, Yoshii T, Nakahara S, Yamamoto Y, Tomiyama Y, Seo Y, Isohashi F, Suzuki O, Yoshioka Y, Sumida I, Ogawa K. Phase 2 Study of Docetaxel, Cisplatin, and Concurrent Radiation for Technically Resectable Stage III-IV Squamous Cell Carcinoma of the Head and Neck. *Int J Radiat Oncol Biol Phys.* 91(5):934-941:2015.
37. Wakai N, Sumida I, Otani Y, Suzuki O, Seo Y, Isohashi F, Yoshioka Y, Hasegawa M, Ogawa K. Optimization of leaf margins for lung stereotactic body radiotherapy using a flattening filter-free beam. *Med Phys.* 42,2125-2131 (2015).
38. Kadoya N, Karasawa K, Sumida I, Arimura H, Yamada S. The current status of education and career paths of students after completion of medical physicist programs in Japan: a survey by the Japanese Board for Medical Physicist Qualification. *Radiol Phys Technol.* 8,278-285 (2015).
39. Anetai Y, Sumida I, Takahashi Y, Yagi M, Ota S, Mizuno H, Ogawa K. Reference respiratory waveforms by minimum jerk model analysis. *Med Phys.* 42,5066-5074 (2015).
40. Isohashi F, Mabuchi S, Yoshioka Y, Seo Y, Suzuki O, Tamari K, Yamashita M, Unno H, Kinose Y, Kozasa K, Sumida I, Otani Y, Kimura T, Ogawa K. Intensity-modulated radiation therapy versus three-dimensional conformal radiation therapy with concurrent nedaplatin-based chemotherapy after radical hysterectomy for uterine cervical cancer: comparison of outcomes, complications, and dose-volume histogram parameters. *Radiat Oncol.* 10:180 (2015).
41. Ota S, Monzen H, Sumida I, Yoshioka Y, Kado R, Inoue S, Ogawa K, Nishimura Y. Quality improvement in external radiation therapy using a departmental incident reporting system and multidisciplinary team efforts. *J Nucl Med Radiat Ther.* 6,243 (2015).
42. Maruoka S, Yoshioka Y, Isohashi F, Suzuki O, Seo Y, Otani Y, Akino Y, Takahashi Y, Sumida I, Ogawa K. Correlation between patients' anatomical characteristics and interfractional internal prostate motion during intensity modulated radiation therapy for prostate cancer. *SpringerPlus.* 4,579 (2015).
43. Yoshioka Y, Suzuki O, Isohashi F, Seo Y, Okubo H, Yamaguchi H, Oda M, Otani Y, Sumida I, Uemura M, Fujita K, Nagahara A, Ujike T, Kawashima A, Yoshida K, Yamazaki H, Nonomura N, Ogawa K. High-dose-rate brachytherapy as monotherapy for intermediate- and high-risk prostate cancer: Clinical results for a median eight-year follow-up. *Int J Radiat Oncol Biol Phys.* 94,675-682 (2016).
44. Sumida I, Yamaguchi H, IJ DAS, Kizaki H, Aboshi K, Tsujii M, Yamada Y, Suzuki O, Seo Y, Isohashi G, Ogawa K. Intensity-modulated radiation therapy dose verification using fluence and portal imaging device. *J Appl Clin Med Phys.* 17,259-271 (2016).

45. Kurosu K, Sumida I, Mizuno H, Otani Y, Oda M, Isohashi F, Seo Y, Suzuki O, Ogawa K. Curtailing patient-specific IMRT QA procedures from 2D dose error distribution. *J Radiat Res.* 57,258-264 (2016).
46. Sumida I, Shiomi H, Higashinaka N, Murashima Y, Miyamoto Y, Yamazaki H, Mabuchi N, Tsuda E, Ogawa K. Evaluation of tracking accuracy of the CyberKnife system using a webcam and printed calibrated grid. *J Appl Clin Med Phys.* 17,74-84 (2016).
47. Yoshida K, Yamazaki H, Kotsuma T, Takenaka T, Ueda M, Miyake S, Tsujimoto Y, Masui K, Yoshioka Y, Sumida I, Uesugi Y, Shimbo T, Yoshikawa N, Yoshioka H, Tanaka E, Narumi Y. Simulation analysis of optimized brachytherapy for uterine cervical cancer: Can we select the best brachytherapy modality depending on tumor size? *Brachytherapy.* 15,57-64 (2016).
48. Isohashi F, Mabuchi S, Akino Y, Yoshioka Y, Seo Y, Suzuki O, Tamari K, Yoshino K, Sawada K, Ueda Y, Kobayashi E, Sumida I, Mizuno H, Okubo H, Kimura T, Ogawa K. Dose-volume analysis of predictors for chronic gastrointestinal complications in patients with cervical cancer treated with postoperative concurrent chemotherapy and whole-pelvic radiation therapy. *J Radiat Res.* 57,668-676 (2016).
49. Murakami S, Verdonschot RG, Kakimoto N, Sumida I, Fujiwara M, Ogawa K, Furukawa S. Preventing complications from high-dose rate brachytherapy when treating mobile tongue cancer via the application of a modular lead-lined spacer. *PLoS One.* 11:e0154226 (2016).
50. Sumida I, Yamaguchi H, Das IJ, Kizaki H, Aboshi K, Tsujii M, Yamada Y, Tamari K, Suzuki O, Seo Y, Isohashi F, Yoshioka Y, Ogawa K. Evaluation of radiobiological gamma index with motion interplay in tangential IMRT breast treatment. *J Radiat Res.* 57,691-701 (2016).
51. Nakahara S, Takenaka Y, Ogawa K, Nishiike S, Yamamoto Y, Seo Y, Isohashi F, Suzuki O, Yoshioka Y, Sumida I, Yoshii T, Tomiyama Y, Inohara H. Phase II study of docetaxel, cisplatin, and concurrent radiation followed by platinum-based adjuvant chemotherapy for technically unresectable, locally advanced head and neck squamous cell carcinoma. *Int J Clin Oncol.* 21,1030-1037 (2016).
52. Baek S, Isohashi F, Yamaguchi H, Mabuchi S, Yoshida K, Kotsuma T, Yamazaki H, Tanaka E, Sumida I, Tamari K, Otani K, Seo Y, Suzuki O, Yoshioka Y, Kimura T, Ogawa K. Salvage high-dose-rate brachytherapy for isolated vaginal recurrence of endometrial cancer. *Brachytherapy.* 57,691-701 (2016).
53. Kurosu K, Sumida I, Shiomi H, Mizuno H, Yamaguchi H, Okubo H, Tamari K, Seo Y, Suzuki O, Ota S, Inoue S, Ogawa K. A robust measurement point for dose verification in delivery quality assurance for a robotic radiosurgery system. *J Radiat Res.* 10,1-8 (2016).
54. Yamaguchi H, Hori M, Suzuki O, Seo Y, Isohashi F, Yoshioka Y, Sumida I, Uemura M, Fujita K, Nagahara A, Ujike T, Kawashima A, Nonomura N, Tomiyama N, Ogawa K. Clinical Significance of

the Apparent Diffusion Coefficient Ratio in Prostate Cancer Treatment with Intensity-modulated Radiotherapy. *Anticancer Res.* 36,6551-6556 (2016).

55. Sumida I, Yamaguchi H, Das IJ, Kizaki H, Aboshi K, Tsujii M, Yamada Y, Tamari K, Seo Y, Isohashi F, Yoshioka Y, Ogawa K. Organ-specific modulation complexity score for the evaluation of dose delivery. *J Radiat Res.* 13,1-10 (2017).
56. Sumida I, Yamaguchi H, Das IJ, Anetai Y, Kizaki H, Aboshi K, Tsujii M, Yamada Y, Tamari K, Seo Y, Isohashi F, Yoshioka Y, Ogawa K. Robust Plan Optimization Using Edge-Enhanced Intensity for Intrafraction Organ Deformation in Prostate Intensity-Modulated Radiation Therapy. *PLoS ONE.* 12(3): e0173643 (2017).
57. Hamatani N, Sumida I, Takahashi Y, Oda M, Seo Y, Isohashi F, Tamari K, Ogawa K. Three dimensional dose prediction and validation with radiobiological gamma index based on relative seriality model for head-and-neck IMRT. *J Radiat Res.* 58:701-709 (2017).
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60. Uchiyama Y, Kreiborg S, Murakami S, Tsujimoto T, Sumida I. Changes in the Submandibular Gland in Patients with Head and Neck Cancer After Radiation Therapy: A Preliminary Study. *Anticancer Res.* 37,3239-3242 (2017).
61. Kubo K, Monzen H, Ishii K, Tamura M, Kawamorita R, Sumida I, Mizuno H, Nishimura Y. Dosimetric comparison of RapidPlan and manually optimized plans in volumetric modulated arc therapy for prostate cancer. *Phys Med.* 17,30216-30218 (2017).
62. Nakano H, Minami K, Yagi M, Imaizumi H, Otani Y, Inoue S, Takashina M, Seo Y, Takahashi Y, Sumida I, Ogawa K, Koizumi M. Radiobiological effects of flattening filter free photon beams on A549 non-small lung cancer cells. *J Radiat Res.* 59,442-445 (2018).
63. Kurosu K, Sumida I, Suzuki O, Shiomi H, Ota S, Otani K, Tamari K, Seo Y, Ogawa K. Dosimetric and clinical implications of interfractional and intrafractional correlation errors during marker-based real time tumor tracking for liver SBRT. *J Radiat Res.* 59,164-172 (2018).
64. Wakisaka Y, Yagi M, Sumida I, Takashina M, Ogawa K, Koizumi M. Impact of time-related factors on biologically accurate radiotherapy treatment planning. *Raidat Oncol.* 13:30 (2018).
65. Ueda Y, Isono M, Miyazaki M, Konishi K, Kamiura S, Sumida I, Ogawa K, Teshima T. Strategies for reducing ovarian dose in volumetric modulated arc therapy (VMAT) for postoperative uterine cervical cancer. *Br J Radiol.* 91,doi: 10.1259/bjr.20160777 (2018).

66. Koike Y, Sumida I, Mizuno H, Shiomi H, Kurosu K, Ota S, Yoshioka Y, Suzuki O, Tamari K, Ogawa K. Dosimetric impact of intra-fraction prostate motion under a tumor-tracking system in hypofractionated robotic radiosurgery. *PLoS One*. 13,e0195296 (2018).
67. Tanaka K, Kajimoto T, Hayashi T, Asanuma O, Hori M, Kamo K, Sumida I, Takahashi Y, Tateoka K, Bengua G, Sakata K, Endo S. An in vitro verification of strength estimation for moving an 125I source during implantation in brachytherapy. *J Radiat Res*. 59,484-489 (2018).
68. Akino Y, Sumida I, Shiomi H, Higashinaka N, Murashima Y, Hayashida M, Mabuchi N, Ogawa K. Evaluation of the accuracy of the CyberKnife Synchrony Respiratory Tracking System using a plastic scintillator. *Med Phys*. (2018) Jun 1, doi: 10.1002/mp.13028. [Epub ahead of print]
69. Otani Y, Sumida I, Nose T, Shimamoto S, Okubo H, Ogawa K. High-dose rate interstitial brachytherapy pretreatment dwell position verification using a transparent applicator. *J Appl Clin Med Phys*. (2018) Jun 30, doi: 10.1002/acm2.12405. [Epub ahead of print]
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accuracy of the CyberKnife Synchrony™ Respiratory Tracking System. *Med Phys.* 46: 3757-66. 2019.

78. Sumida I, Magome T, Kitamori H, Das IJ, Yamaguchi H, Kizaki H, Aboshi K, Yamashita K, Yamada Y, Seo Y, Isohashi F, Ogawa K. Deep convolutional neural network for reduction of contrast-enhanced region on CT images. *J Radiat Res.* 60: 586-94. 2019.
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Clinical experience

I have started work as a medical physicist since 2004. As I have been presenting the peer-review journals, I have an experience for external beam radiotherapy (VMAT, IMRT, IGRT) and brachytherapy

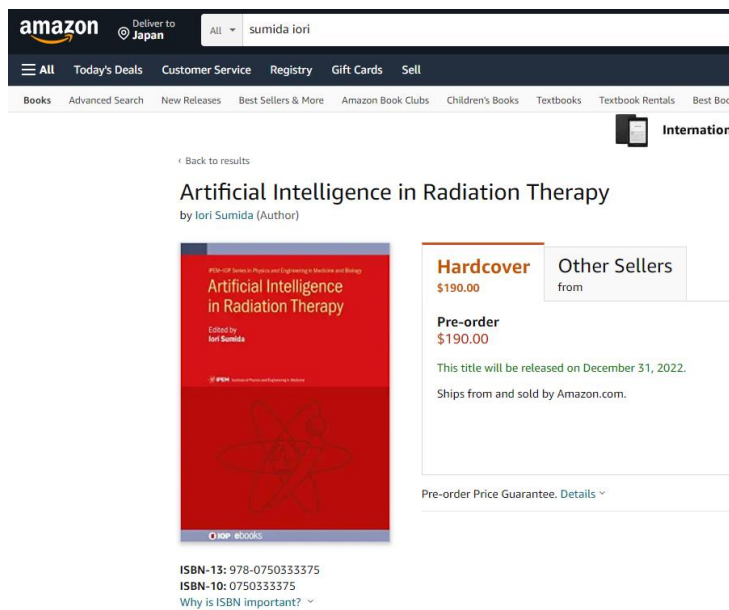
(192Ir-HDR, 125I-LDR).

I am familiar with these treatment machines, Varian TrueBeam, Siemens ONCOR and ARTISTE, Accuray CyberKnife and Tomotherapy. Also I have used the treatment planning systems, Eclipse, RayStation, Pinnacle, Monaco, XiO, Multiplan, Oncentra, and VariSeed.

I have supervised around 40 graduate students for research projects and have educated clinical experience in medical physics through on-the-job training. Japanese board of medical physics (JBMP) accredits our department as a medical physics course.

Work experience

In Apr. 2021, I moved to Accuray, Japan from Osaka University. Based on the clinical experience in medical physics over 18 years, currently I work at Accuray, Japan as a senior director to be growth to our company from the marketing and physics and clinical support aspects. Since my major skill is to develop artificial intelligence in radiation therapy, that has been proved in textbook published from IOP. Publishing below, my knowledge is going to implement our product and development to gain.



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