1. **金澤 裕樹 :** 生体構造・代謝物マッピングの最新動向-MT，MWF，CESTイメージングを中心に, 株式会社 インナービジョン, 東京, 2023年.
2. **Natsuki Ikemitsu, Yuki Kanazawa, Akihiro Haga, Hiroaki Hayashi, Yuki Matsumoto *and* Masafumi Harada :** Determination of Alzheimer's disease based on morphology and atrophy using machine learning combined with automated segmentation, *Proceedings of ISMRM,* **31,** *3263,* 2022.
3. **Shun Kitano, Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Yuki Matsumoto, Hiroaki Hayashi, Kosuke Ito, Yoshitaka Bito *and* Akihiro Haga :** Conversion map from quantitative parameter mapping to myelin water fraction, *Proceedings of ISMRM,* **31,** *3052,* 2022.
4. **Nagomi Fukuda, Yuki Kanazawa, Hiroaki Hayashi, Yuki Matsumoto, Masafumi Harada, Motoharu Sasaki *and* Akihiro Haga :** Development of self-calibrating B1 correction for three-dimensional variable flip angle T1 mapping, *Proceedings of ISMRM,* **31,** *3218,* 2022.
5. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi *and* Yuki Matsumoto :** Evaluation of brain tumor and surrounding tissue activity using multi-pool CEST imaging on 3 Tesla scanner, *Proceedings of ISMRM,* **31,** *4285,* 2022.
6. **Sho Ozaki, Shizuo Kaji, Kanabu Nawa, Toshikazu Imae, Atsushi Aoki, Takahiro Nakamoto, Takeshi Ohta, Yuki Nozawa, Hideomi Yamashita, Akihiro Haga *and* Keiichi Nakagawa :** Training of deep cross-modality conversion models with a small dataset, and their application in megavoltage CT to kilovoltage CT conversion, *Medical Physics,* **49,** *5,* 2022.
7. **Nagomi Fukuda, Yuki Kanazawa, Hiroaki Hayashi, Yuki Matsumoto, Masafumi Harada, Motoharu Sasaki *and* Akihiro Haga :** Development of a B1 correction method without additional scanning VFA T1 map., *European Congress of Radiology (EPOS),* 10, 2022.
8. **Natsuki Ikemitsu, Yuki Kanazawa, Masafumi Harada, Yuki Matsumoto, Hiroaki Hayashi, Kosuke Ito, Yo Taniguchi, Yoshitaka Bito *and* Akihiro Haga :** Determination of white matter structure index for voxel basedmorphometry and connectivity analysis., *European Congress of Radiology (EPOS),* 10, 2022.
9. **Daiyu Fujiwara, Taisei Shimomura, Wei Zhao, Kai-wen Li, Akihiro Haga *and* Li-sheng Geng :** Virtual computed-tomography system for deep-learning-based material decomposition, *Physics in Medicine and Biology,* **67,** *15,* 155008, 2022.
10. **Seto Hiroe, Oyama Asuka, Kitora Shuji, Toki Hiroshi, Yamamoto Ryohei, Akihiro Haga, Shinzawa Maki, Yamakawa Miyae, Fukui Sakiko *and* Moriyama Toshiki :** Gradient Boosting Decision Tree Becomes More Reliable Than Logistic Regression in Predicting Probability for Diabetes With Big Data, *Scientific Reports,* 2022.
11. **Yoshihide Sato, Dousatsu Sakata, David Bolst, Edward Simpson, Susanna Guatelli *and* Akihiro Haga :** Development of a more accurate Geant4 quantum molecular dynamics model for hadron therapy, *Physics in Medicine and Biology,* **67,** *15,* 225001, 2022.
12. **Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Hiroaki Hayashi, Takashi Abe, Maki Ohtomo, Yuki Matsumoto, Masaharu Ono, Kosuke Ito, Yoshitaka Bito *and* Akihiro Haga :** Myelin-weighted imaging derived from quantitative parameter mapping, *European Journal of Radiology,* **156,** *110525,* 1-9, 2022.
13. **Mayuka Seguchi, Yuki Kanazawa, Tosiaki Miyati, Masafumi Harada, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Yasuhisa Kanematsu *and* Yasushi Takagi :** Diffusion weighted-viscosity imaging for atherosclerotic plaques, *Proceedings of ISMRM,* **32,** *1519,* 2023.
14. **Yuki Kanazawa, Tosiaki Miyati, Masafumi Harada, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Yasuhisa Kanematsu *and* Yasushi Takagi :** Evaluation of Biological Metabolic Activity within an Atherosclerotic Plaque using Chemical Exchange Saturation Transfer Imaging, *Proceedings of ISMRM,* **32,** *2982,* 2023.
15. **Takashi Asahara, Hiroaki Hayashi, Tatsuya Maeda, Sota Goto, Daiki Kobayashi, Rina Nishigami, Cheonghae Lee, Miku Ando, Yuki Kanazawa, Satoshi Imajo, Kazuta Yamashita *and* Kosaku Higashino :** A wearable active-type X-ray dosimeter having novel functions to derive both incident direction and absolute exposure dose, *Radiation Physics and Chemistry,* **208,** 110932, 2023.
16. **Cheonghae Lee, Hiroaki Hayashi, Daiki Kobayashi, Rina Nishigami, Tatsuya Maeda, Takashi Asahara, Yuki Kanazawa, Akitoshi Katsumata, Natsuki Kimoto *and* Shuichiro Yamamoto :** Automatic determination algorithm of intrinsic parameters on response function of energy-resolving photon counting imaging detector, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society,* 2023.
17. **Rina Nishigami, Hiroaki Hayashi, Daiki Kobayashi, Cheonghae Lee, Tatsuya Maeda, Takashi Asahara, Yuki Kanazawa, Natsumi Kimoto *and* Shuichiro Yamamoto :** Simulation study on functional images to optimize radiographic condition using energy resolving photon counting detector, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society,* 2023.
18. **Daiki Kobayashi, Hiroaki Hayashi, Rina Nishigami, Cheonghae Lee, Tastuya Maeda, Yuki Kanazawa, Akitoshi Katsumata, Natsuki Kimoto *and* Shuichiro Yamashita :** Blurring correction for calculating functional images using an energy resolving photon counting detector, *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society,* 2023.
19. **Takayuki Higuchi *and* Akihiro Haga :** X-ray energy spectrum estimation based on a virtual computed tomography system, *Biomedical Physics & Engineering Express,* 025002, 2023.
20. **Kazuki Takegami, Yuki Kanazawa, Tatsuya Maeda, Cheonghae Lee, Rina Nishigami, Takashi Asahara, Sota Goto, Daiki KObayashi, Miku Ando, Yuki Kanazawa, Kazuta Yamashita, Kosaku Higashino, Shuichi Murakami, Takeshi Konishi *and* Motochika Maki :** Thyroid dose reduction shield with the generation of less artifacts used for fast chest CT examination, *Radiation Physics and Chemistry,* **203,** 110635, 2023.
21. **Takashi Asahara, Hiroaki Hayashi, Tatsuya Maeada, Sota Goto, Daiki Kobayashi, Cheongha Lee, Yuki Kanazawa, Naoki Maeda *and* Mitsugi Honda :** A wearable active-type dosimeter having novel functions to derive both incident direction and absolute dose of scattered X-rays during IVR procedures, *ECR 2023,* C-10352, 2023.
22. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa *and* Miyoshi Mitsuharu :** Endogenous/exogenous tracers in CEST for pH measurement at 3T MRI, *European Congress of Radiology (EPOS),* 2022.
23. **Yuki Matsumoto, Koji Fujita, Masafumi Harada, Yuki Kanazawa *and* Miyoshi Mitsuharu :** Characterization of Movement Disorders Using Multimodal Neuroimaging, *European Congress of Radiology (EPOS),* 2022.
24. **Yuki Kanazawa *and* Masafumi Harada :** Editorial for "Chemical Exchange Saturation Transfer (CEST) MRI for Differentiating Radiation Necrosis from Tumor Progression in Brain Metastasis: Application in a Clinical Setting", *Journal of Magnetic Resonance Imaging : JMRI,* **Epub ahead of print,** Oct. 2022.
25. **金澤 裕樹 :** ISMRM2022in London( ハイブリッド開催)に参加して, *映像情報メディカル増刊号ROUTINE CLINICAL MRI 2023 BOOK 54,* **54,** *14,* 2022年12月.
26. **芳賀 昭弘 :** 徳島大学大学院保健科学研究科医学物理学コースの紹介, *医学物理,* **42,** *4,* 1-3, 2022年12月.
27. **Fukuda Nagomi, Yuki Kanazawa, Hiroaki Hayashi, Yuki Matsumoto, Masafumi Harada, Motoharu Sasaki *and* Akihiro Haga :** Variable flip angle T1 mapping without acquiring data for B1 correction, *Joint International Conference on Radiological Physics and Technology,* Yokohama, Apr. 2022.
28. **Cheonghae Lee, Hiroaki Hayashi, Natsumi Kimoto, Tatsuya Maeda, Yuki Kanazawa, Akitoshi Katsumata *and* Shuichiro Yamamoto :** Bone and soft-tissue image generation method based on one shot X-ray exposure using a photon-counting detector, *Joint International Conference on Radiological Physics and Technology,* Yokohama, Apr. 2022.
29. **Inoue Yuki, Taisei Shimomura *and* Akihiro Haga :** Novel Scattered X-ray model for Cone-Beam Computed Tomography, *International Conference on Radiological Physics and Technology (ICRPT),* **42,** *Sup1,* 126, Yokohama, Apr. 2022.
30. **Shimomura Taishi, Inoue Yuki, Fujiwara Daiyu *and* Akihiro Haga :** A Generative Cone-Beam Computed Tomography Model, *International Conference on Radiological Physics and Technology (ICRPT),* **42,** *Sup1,* 126, Yokohama, Apr. 2022.
31. **Sato Yoshihide, Akihiro Haga, Sakata Dousatsu, Guatelli Susanna *and* Bolst David :** Establishment of Evaluation Method for Fragmentation Model in Heavy-ion Therapy Energy, *International Conference on Radiological Physics and Technology (ICRPT),* **42,** *Sup1,* 126, Yokohama, Apr. 2022.
32. **Natsuki Ikemitsu, Yuki Kanazawa, Akihiro Haga, Hiroaki Hayashi, Yuki Matsumoto *and* Masafumi Harada :** Determination of Alzheimer's disease based on morphology and atrophy using machine learning combined with automated segmentation., *Joint Annual Meeting ISMRM-ESMRMB & ISMRT 31st Annual Meeting,* London, May 2022.
33. **Shun Kitano, Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Yuki Matsumoto, Hiroaki Hayashi, Kosuke Ito, Yoshitaka Bito *and* Akihiro Haga :** Conversion map from quantitative parameter mapping to myelin water fraction, *Joint Annual Meeting ISMRM-ESMRMB & ISMRT 31st Annual Meeting,* London, May 2022.
34. **Nagomi Fukuda, Yuki Kanazawa, Hiroaki Hayashi, Yuki Matsumoto, Masafumi Harada, Motoharu Sasaki *and* Akihiro Haga :** Development of self-calibrating B1 correction for three-dimensional variable flip angle T1 mapping, *Joint Annual Meeting ISMRM-ESMRMB & ISMRT 31st Annual Meeting,* London, May 2022.
35. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi *and* Yuki Matsumoto :** Evaluation of brain tumor and surrounding tissue activity using multi-pool CEST imaging on 3 Tesla scanner, *Joint Annual Meeting ISMRM-ESMRMB & ISMRT 31st Annual Meeting,* London, May 2022.
36. **Yuki Matsumoto, Yuki Kanazawa, Yuki Kinjo, Masafumi Harada, Toshiaki Miyati, Hiroaki Hayashi, Mitsuharu Miyoshi, Naoki Maeda, Yasuhisa Kanematsu, Yasushi Takagi *and* Akihiro Haga :** Evaluation of Blood Flow and Plaque Vulnerability in Carotid Artery Stenosis Focusing on Morphological and Component Characteristics, *ISMRM 30th Annual Meeting,* London, May 2022.
37. **Nagomi Fukuda, Yuki Kanazawa, Hiroaki Hayashi, Yuki Matsumoto, Masafumi Harada, Motoharu Sasaki *and* Akihiro Haga :** Development of a B1 correction method without additional scanning VFA T1 map., *European Congress of Radiology,* Wien, Jul. 2022.
38. **Sato Yoshihide, Akihiro Haga, Sakata Dousatsu, Guatelli Susanna, Bolst David *and* Simpson Edward :** Validation of improved quantum molecular dynamics modeland impact of parameters regarding time evolution, *International Conference of Mini- Micro- Nano- Dosimetry,* Noosa, QLD, Australia, Feb. 2023.
39. **Takashi Asahara, Hiroaki Hayashi, Tatsuya Maeda, Sota Goto, Daiki Kobayashi, Cheonghae Lee, Yuki Kanazawa, Naoki Maeda *and* Mitsugu Honda :** A wearable active-type dosimeter having novel functions to derive both incident direction and absolute dose of scattered X-rays during IVR procedures, *European Congress of Radiology (ECR),* Mar. 2023.
40. **土師 正太郎, 藤田 浩司, 沖 良祐, 大崎 裕亮, 金澤 裕樹, 松元 友暉, 有澤 亜津子, 川井 恒, 佐藤 康敬, 八木 健太, 坂口 暁, 楊河 宏章, 濱谷 辰斗, 長野 清一, 望月 秀樹, 熱田 直樹, 道勇 学, 祖父江 元, 原田 雅史, 和泉 唯信 :** EPI-589の筋萎縮性側索硬化症を対象とした探索的医師主導試験(EPIC-ALS), *第63回日本神経学会学術大会,* 2022年5月.
41. **Yuki Matsumoto, Masafumi Harada, Monda Kanon, Yuki Kanazawa, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Development of a neural network based skull stripping algorithm for quantitative parameter mapping both before and after injection of contrast media, *JSMRM2022,* Sep. 2022.
42. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Quantitative parameter mapping of brain tumor extracellular pH for therapeutic efficacy, *ISMRM Japanese Chapter,* Sep. 2022.
43. **魚谷 俊介, 金澤 裕樹, 大城 隆嗣, 芳賀 昭弘, 原田 雅史 :** 信号雑音比を考慮したMyelin Water Fraction導出法の開発, *第50回日本放射線技術学会秋季学術大会,* 2022年10月.
44. **瀬口 真友香, 金澤 裕樹, 芳賀 昭弘, 原田 雅史 :** アテローム性動脈硬化症におけるプラーク形成の潜在的危険因子の評価, *第50回日本放射線技術学会秋季学術大会,* 2022年10月.
45. **梶野 晃未, 生島 仁史, 佐々木 幹治, 大谷 環樹, 山下 理子, 芳賀 昭弘 :** 放射線治療効果を早期に検出できるRadiomics特徴量の探索, *日本放射線腫瘍学会第35回学術大会,* 2022年11月.
46. **akinari kasai, Jinsei Miyoshi, Akihiro Haga, Takashi Kawanaka *and* Hiroshi Miyamoto :** CT画像に基づいたAI機械学習モデルによる食道扁平上皮癌に対する化学放射線療法の効果予測., *第20回日本臨床腫瘍学会学術集会,* Mar. 2023.
47. **金澤 裕樹 :** MRIを中心としたRSNA2023トピックス, 産業開発機構 株式会社, 2024年2月.
48. **Natsumi Yamaguchi, Yoshitaka Kosaka, Akihiro Haga, Masataka Sata *and* Kenya Kusunose :** Artificial intelligence-assisted interpretation of systolic function by echocardiogram, *Open Heart,* **10,** *2,* e002287., 2023.
49. **Taisei Shimomura, Daiyu Fujiwara, Yuki Inoue, Atsushi Takeya, Takeshi Ohta, Toshikazu Imae, Yuki Nozawa, Kanabu Nawa, Keiichi Nakagawa *and* Akihiro Haga :** Virtual cone-beam computed tomography simulator with human phantom library and its application to the elemental material decomposition, *Physica Medica,* **113,** 102648, 2023.
50. **Rina Nishigami, Hiroaki Hayashi, Daiki Kobayashi, Cheonghae Lee, Tatsuya Maeda, Takashi Asahara, Yuki Kanazawa, Natsumi Kimoto *and* Shuichiro Yamamoto :** Simulation study on functional images to optimize radiographic condition using energy resolving photon counting detector, *The 2023 IEEE Nuclear Science Symposium and Medical Imaging Conference,* 2023.
51. **Daisuke Satoh, Motoharu Sasaki, Yuji Nakaguchi, Takeshi Kamomae, Takashi Kawanaka, Akiko Kubo, Chisato Tonoiso, Yuki Kanazawa, Masataka Oita, Akimi Kajino, Akira Tsuzuki *and* Hitoshi Ikushima :** Differences between professionals in planning treatment for patients with stage III lung cancer using treatment-planning QA software, *Reports of Practical Oncology and Radiotherapy,* **28,** *5,* 671-680, 2023.
52. **Rina Nishigami, Hiroaki Hayashi, Daiki Kobayashi, Tatsuya Maeada, Takashi Asahara, Yuki Kanazawa, Natsumi Kimoto *and* Shuichiro Yamamoto :** Applicability of high tube voltage imaging to achieve accurate quantitative images when applying photon counting detectors to general radiography, *Proceedings of SPIE,* 2024.
53. **Takashi Asahara, Hiroaki Hayashi, Tatsuya Maeda, Daiki Kobayashi, Rina Nishigami, Sota Goto, Miku Ando, Natsumi Kimoto, Yuki Kanazawa *and* Kazuta Yamashita :** Evaluation of lower detection limit and performance analyses related to the incident angle of X-rays and absolute dose using a triple-type dosimeter, *Radiation Measurements,* **175,** *107148,* 1-9, 2024.
54. **Hiroaki Hayashi, Tatsuya Maeda, Kazuki Takegami, Rina Nishigami, Daiki Kobayashi, Takashi Asahara, Sota Goto, Natsumi Kimoto, Yuki Kanazawa, Kazuta Yamashita, Kosaku Higashino, Shuichiro Murakami, Takeshi Konishi *and* Motochika Maki :** A suitable procedure of dose reduction factor measurements of X-ray shields during computed tomography examination - the importance of considering positional changes of an X-ray tube -, *Radiation Physics and Chemistry,* **222,** *111880,* 1-11, 2024.
55. **Rina Nishigami, Daiki Kobayashi, Natsumi Kimoto, Takashi Asahara, Tatsuya Maeda, Tomonobu Haba, Yuki Kanazawa, Shuichiro Yamamoto *and* Hiroaki Hayashi :** Optimization of energy windows to calculate quantitative X-ray images using an energy-resolving photon-counting detector: a simulation study, *Radiation Physics and Chemistry,* **229,** *112460,* 1-13, 2024.
56. **Yuki Kanazawa, Natsuki Ikemitsu, Yuki Kinjyo, Masafumi Harada, Hiroaki Hayashi, Yo Taniguchi, Kosuke Ito, Yoshitaka Bito, Yuki Matsumoto *and* Akihiro Haga :** Differences of white matter structure for diffusion kurtosis imaging using voxel-based morphometry and connectivity analysis, *BJR Open,* **6,** *1,* 1-7, 2024.
57. **Akihiro Haga :** Quantum annealing-based computed tomography using variational approach for a real-number image reconstruction, *Physics in Medicine and Biology,* **69,** *4,* 2024.
58. **Akinari Kasai, Jinsei Miyoshi, Yasushi Sato, Koichi Okamoto, Hiroshi Miyamoto, Takashi Kawanaka, Chisato Tonoiso, Masafumi Harada, Masakazu Goto, Takahiro Yoshida, Akihiro Haga *and* Tetsuji Takayama :** A novel CT-based radiomics model for predicting response and prognosis of chemoradiotherapy in esophageal squamous cell carcinoma., *Scientific Reports,* **14,** *1,* 2039, 2024.
59. **Daiki Chiba, Yuki Kanazawa, Tosiaki Miyati, Masafumi Harada, Mitsuharu Miyoshi, Hiroaki Hayashi *and* Akihiro Haga :** Simplified assessment for chemical exchanged saturation transfer (CEST) imaging: local offset frequency and CEST effect, *Radiological Physics and Technology,* **17,** *1,* 93-102, 2024.
60. **Nagi Masumoto, Motoharu Sasaki, Yuji Nakaguchi, Takeshi Kamomae, Yuki Kanazawa *and* Hitoshi Ikushima :** Knowledge-based model building for treatment planning for prostate cancer using commercial treatment planning quality assurance software tools, *Radiological Physics and Technology,* **17,** *1,* 337-345, 2024.
61. **Daiki Kobayashi, Hiroaki Hayashi, Rina Nishigami, Tatsuya Maeda, Takashi Asahara, Yuki Kanazawa, Akitoshi Katsumata, Natsukmi Kimoto *and* Shuochiro Yamamoto :** A blurring correction method suitable to analyze quantitative x-ray images derived from energy-resolving photon counting detector, *Physics in Medicine and Biology,* **Accepted,** 2024.
62. **Hiroaki Hayashi, Tatsuya Maeada, Sota Goto, Kazuki Takegami, Takashi Asahara, Rina Nishigami, Daiki KObayashi, Yuki Kanazawa *and* Kazuta Yamashita :** Direct dose measurement method during chest CT examination by taking into consideration the X-ray incident direction, *European Congress of Radiology, EPOS,* C-11117, 2024.
63. **Akinari Kasai, Jinsei Miyoshi, Yasushi Sato, Koichi Okamoto, Hiroshi Miyamoto, Takashi Kawanaka, Chisato Tonoiso, Masafumi Harada, Masakazu Goto, Takahiro Yoshida, Akihiro Haga *and* Tetsuji Takayama :** Correction to: A novel CT-based radiomics model for predicting response and prognosis of chemoradiotherapy in esophageal squamous cell carcinoma (Scientific Reports, (2024), 14, 1, (2039), 10.1038/s41598-024-52418-4), *Scientific Reports,* **14,** *1,* 3648, 2024.
64. **Rina Nishigami, Hiroaki Hayashi, Cheonghae Lee, Daiki KObayashi, Tatsuya Maeda, Takashi Asahara, Yuki Kanazawa, tomonobu Haba, Natsuki Kimoto *and* Shuichiro Yamamoto :** Suitability of High-Tube-Voltage Imaging When Using Energy Resolving Photon Counting Detector (ERPCD): Simulation Study, *The 2nd International Conference on Radiological Physics and Technology (ICRPT),* Yokohama, Apr. 2023.
65. **Daiki KObayashi, Hiroaki Hayashi, Cheongae Lee, Rina NIshigami, Tatsuya Maeda, Takashi Asahara, Yuki Kanazawa, Akitoshi Katsumata, Natsumi Kimoto *and* Shuichiro Yamamoto :** A correction method for object edge blurring that is effective for quantitative analysis using photon counting imaging, *The 2nd International Conference on Radiological Physics and Technology (ICRPT),* Yokohama, Apr. 2023.
66. **Takashi Asahara, Hiroaki Hayashi, Tatsuya Maeda, Daiki Kobayashi, Sota Goto, Cheonghae Lee, Yuki Kanazawa, Naoki Maeada, Satoshi Imjo *and* Mitsugu Honda :** A novel function for wearable dosimeters: to determine both incident direction and absolute dose of X-rays during IVR procedure, *The 2nd International Conference on Radiological Physics and Technology (ICRPT),* Yokohama, Apr. 2023.
67. **Atsushi Takeya, Keiichiro Watanabe, Taisei Shimomura *and* Akihiro Haga :** Development of an accurate and rapid auto-segmentation method for alveolar bone and teeth using virtual cone-beam computed tomography and artificial intelligence technology, *International Conference on Radiological Physics and Technology (ICRPT),* **43,** *Sup1,* 153-154, Yokohama, Apr. 2023.
68. **Shimomura Taisei, Fujiwara Daiyu, Inoue Yuki, Takeya Atsushi, Ohta Takeshi, Nozawa Yuki, Nawa Kanabu, Nakagawa Keiichi *and* Akihiro Haga :** Development of virtual CBCT simulator and deep-learning based elemental material decomposition, *ESTRO 2023,* Wien, May 2023.
69. **Mayuka Seguchi, Yuki Kanazawa, Tosiaki Miyati, Masafumi Harada, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Yasuhisa Kanematsu *and* Yasushi Takagi :** Diffusion weighted-viscosity imaging for atherosclerotic plaques, *The 32st Annual Meeting of ISMRM,* Toronto, Jun. 2023.
70. **Yuki Kanazawa, Tosiaki Miyati, Masafumi Harada, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Yasuhisa Kanematsu *and* Yasushi Takagi :** Evaluation of Biological Metabolic Activity within an Atherosclerotic Plaque using Chemical Exchange Saturation Transfer Imaging, *The 32st Annual Meeting of ISMRM,* Toronto, Jun. 2023.
71. **Yuki Kanazawa, KITANO Shun, Masafumi Harada, Yo Taniguchi, Yuki Matsumoto, Hiroaki Hayashi, Kosuke Ito, Yoshitaka Bito *and* Akihiro Haga :** Myelin Water Atlas Template Derived from Quantitative Parameter Mapping, *The 32st Annual Meeting of ISMRM,* Toronto, Jun. 2023.
72. **Yoshihide Sato, Dousatsu Sakata, David Bolst, Edward Simpson, Susanna Guatelli *and* Akihiro Haga :** Development of a more accurate Geant4 quantum molecular dynamics model for hadron therapy, *Annual meeting of American Association for Physicist in Medicine,* Jul. 2023.
73. **Takashi Asahara, Hiroaki Hayashi, Tatsuya Maeada, Daiki Kobayashi, Sota Goto, Rina Nishigami, Miku Ando, Cheonghae Lee, Yuki Kanazawa, Kazuta Yamashita, Naoki Maeda, Satoshi Imajo *and* Mitsugi Honda :** An active-type personal dosimeter having functions to derive both incident direction and absolute dose of scattered X-rays during clinical X-ray examinations, *20th International Conference on Solid State Dosimetry (SSD20),* Viareggio, Sep. 2023.
74. **Hiroaki Hayashi, tatsuya Maeda, Kazuki Takegami, Rina Nishigami, Daiki Kobayashi, Cheonhae Lee, Takashi Asahara, sota Goto, Miku Ando, Yuki Kanazawa, Kazuta Yamashita, Kosaku Higashino, Shuichi Murakami, Takeshi Konishi *and* Motochika Maki :** Evidence of exposure dose reduction outside the scanning region during fast scan chest CT examination through the use of an X-ray shield, *20th International Conference on Solid State Dosimetry (SSD20),* Viareggio, Sep. 2023.
75. **Yoshihide Sato, Dousatsu Sakata, David Bolst, Edward Simpson, Susanna Guatelli *and* Akihiro Haga :** Development and implementation of a new Geant4 QMD model and its validation, *Geant4 Collaboration Meeting 2023,* Sapporo, Sep. 2023.
76. **Yuki Kanazawa, Tosiaki Miyati, Masafumi Harada, Mitsuharu Miyoshi, Mayuka Seguchi, Hiroaki Hayashi, Yuki Matsumoto, Yasuhisa Kanematsu *and* Yasushi Takagi :** Metabolic Analysis Within an Atherosclerotic Plaque Using Chemical Exchange Saturation Transfer Imaging, *The 109th Scientific Assembly and Annual Meeting of the Radiological Society of North America (RSNA2023),* Chicago, Nov. 2023.
77. **Daiki Kobayashi, Hiroaki Hayashi, Rina Nishigami, Cheonghae Lee, Tatsuya Maeada, Takashi Asahara, Yuki Kanazawa, Akitoshi Katsumata, Natsuki Kimoto *and* Shuichiro Yamamloto :** Will general radiography become more valuable when exploiting the performance of a photon counting detector?, *The 109th Scientific Assembly and Annual Meeting of the Radiological Society of North America (RSNA2023),* Chicago, Nov. 2023.
78. **Hiroaki Hayashi, Tatsuya Maeda, Kazuki takegami, Sota Goto, Rina NIshigami, Daiki KObayashi, Takashi Asahara, Yuki Kanazawa, Kazuta Yamashita *and* Kosaku Higashino :** How can we establish direct radiation dose measurement during CT examinations?, *The 109th Scientific Assembly and Annual Meeting of the Radiological Society of North America (RSNA2023),* Chicago, Nov. 2023.
79. **Daiki Kobayashi, Hiroaki Hayashi, Rina Nishigami, Cheonghae Lee, Tastuya Maeda, Yuki Kanazawa, Akitoshi Katsumata, Natsuki Kimoto *and* Shuichiro Yamashita :** Blurring correction for calculating functional images using an energy resolving photon counting detector, *The 2023 IEEE Nuclear Science Symposium and Medical Imaging Conference,* Vancouver, Nov. 2023.
80. **Cheonghae Lee, Hiroaki Hayashi, Daiki Kobayashi, Rina Nishigami, Tatsuya Maeda, Takashi Asahara, Yuki Kanazawa, Akitoshi Katsumata, Natsuki Kimoto *and* Shuichiro Yamamoto :** Automatic determination algorithm of intrinsic parameters on response function of energy-resolving photon counting imaging detector, *The 2023 IEEE Nuclear Science Symposium and Medical Imaging Conference,* Vancouver, Nov. 2023.
81. **Yuki Matsumoto, Shotaro Haji, Masafumi Harada, Wataru Sako, Yuki Kanazawa, Yuishin Izumi, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Quantitative Parameter Mapping of Brain Structure and Components in Parkinsons Disease and Progressive Supranuclear Palsy, *RSNA2023 (Radiological Society of North America),* Chicago, Nov. 2023.
82. **Rina Nishigami, Hiroaki Hayashi, Daiki Kobayashi, Tatsuya Maeada, Takashi Asahara, Yuki Kanazawa, Natsumi Kimoto *and* Shuichiro Yamamoto :** Applicability of high tube voltage imaging to achieve accurate quantitative images when applying photon counting detectors to general radiography, *SPIE Medical Imaging 2024,* **12925,** 129252M, San Diego, Feb. 2024.
83. **Kanon Monda, Hitoshi Ikushima, Yuki Matsumoto, Motoharu Sasaki, Michihito Shimokawa *and* Akihiro Haga :** The differential diagnosis of recurrent brain metastasis or radiationinduced brain necrosis by radiomics analysis using C-11 methionine positron emission tomography, *ECR 2024,* Feb. 2024.
84. **Shunsuke Uotani, Yuki Kanazawa, Taniguchi Yo, Ito Kosuke, Bito Yoshitaka, Yuki Matsumoto, Masafumi Harada *and* Akihiro Haga :** Determining Imaging Parameters of a Gradient-echo Technique for Myelin Water Fraction., *European Congress of RadiologyECR2024,* Wien, Mar. 2024.
85. **Hiroaki Hayashi, Tatsuya Maeada, Sota Goto, Kazuki Takegami, Takashi Asahara, Rina Nishigami, Daiki KObayashi, Yuki Kanazawa *and* Kazuta Yamashita :** Direct dose measurement method during chest CT examination by taking into consideration the X-ray incident direction, *European Congress of Radiology, ECR 2024,* Wien, Mar. 2024.
86. **Yoshihide Sato, Dousatsu Sakata, David Bolst, Edward Simpson, Susanna Guatelli *and* Akihiro Haga :** Validation of positron-emitting radionuclide production with Light Ion QMD model, *The 5th Geant4 International User Conference at the Physics-Medicine-Biology frontier,* Osaka, Mar. 2024.
87. **魚谷 俊介, 金澤 裕樹, 大城 隆嗣, 芳賀 昭弘, 原田 雅史 :** 最尤推定を用いたMyelin Water Fraction導出法の検討, *第 79 回日本放射線技術学会総会学術大会,* 2023年4月.
88. **瀬口 真友香, 金澤 裕樹, 宮地 利明, 松元 友暉, 原田 雅史, 林 裕晃, 芳賀 昭弘 :** アテローム性動脈硬化症におけるプラーク性状評価のための粘稠度MRI, *第 79 回日本放射線技術学会総会学術大会,* 2023年4月.
89. **芳賀 昭弘 :** 徳島大学大学院保健科学研究科医学物理学コース紹介, *第125回日本医学物理学会,* 2023年4月.
90. **芳賀 昭弘 :** AI時代における仮想CT装置の役割と臨床応用, *第126回日本医学物理学会,* 2023年9月.
91. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa *and* Miyoshi Mitsuharu :** AcidoCEST contrast media exhibiting pH dependence on a 3T clinical MRI system, *JSMRM2023,* Sep. 2023.
92. **龍ケ江 千香, 金澤 裕樹, 福田 和海, 原田 雅史 :** 4D-flow MRIから導出した流体パラメータと頸動脈狭窄率の関係, *第51回日本放射線技術学会秋季学術大会,* 2023年10月.
93. **金澤 裕樹 :** 臨床実現を目指したMR脳機能イメージング研究, *第51回日本放射線技術学会秋季学術大会,* 2023年10月.
94. **富永 羽香, 金澤 裕樹, 三好 光晴, 原田 雅史 :** CEST イメージングの高分子濃度と pH 緩衝液依存性の検討, *第51回日本放射線技術学会秋季学術大会,* 2023年10月.
95. **渡邉 佳一郎, 竹谷 淳志, 芳賀 昭弘, 田中 栄二 :** 仮想コーンビームCT(CBCT)とAI技術を用いたCBCT画像の歯の高精度オートセグメンテーション手法の開発, *第82回日本矯正歯科学会学術大会抄録集,* 151, 2023年11月.
96. **下川 通仁, 佐々木 幹治, 芳賀 昭弘, 生島 仁史 :** 脳転移放射線治療後の壊死と再発の鑑別におけるMTI Radiomicsの有用性, *日本放射線腫瘍学会第36回学術大会,* 2023年11月.
97. **芳賀 昭弘 :** 今後の医療に関するAI, *第十九回前立腺癌密封小線源永久挿入治療研究会,* 2024年2月.
98. **堀川 勝平, 佐藤 義秀, 長谷川 侑, 芳賀 昭弘 :** 放射線治療用X線エネルギースペクトル生成モデルの開発, *第37回高精度放射線外部照射部会学術大会,* 2024年3月.
99. **門田 香音, 松元 友暉, 佐々木 幹治, 下川 通仁, 芳賀 昭弘, 生島 仁史 :** 転移性脳腫瘍に対する放射線治療後の脳壊死と再発を鑑別する11C-Mthionine PET Radiomicsモデルの開発, *37,* 2024年3月.
100. **兼松 康久, 金澤 裕樹, 島田 健司, 高麗 雅章, 曽我部 周, 石原 学, 山口 泉, 羽星 辰哉, 山本 伸昭, 黒田 一駿, 原田 雅史, 髙木 康志 :** CEST MRIを用いた頚動脈プラーク診断, *STROKE 2024,* 2024年3月.
101. **Yoshihide Sato, Dousatsu Sakata, David Bolst, Edward Simpson, Susanna Guatelli *and* Akihiro Haga :** Development and implementation of a new Geant4 QMD model and its validation, *Geant4 Hadronic Physics Working Group Meeting,* Aug. 2023.
102. **石田 基広, 大薮 進喜, 上田 哲史, 瓜生 真也, 掛井 秀一, 金西 計英, 谷岡 広樹, 鳥井 浩平, 中山 慎一, 芳賀 昭弘 :** 改訂新版 情報科学入門, 株式会社技術評論社, 2025年3月.
103. **Natsuki Ikemitsu, Yuki Kanazawa, Akihiro Haga, Hiroaki Hayashi, Yuki Matsumoto *and* Masafumi Harada :** Determination of Alzheimer's disease based on morphology and atrophy using machine learning combined with automated segmentation, *Acta Radiologica,* **65,** *4,* 359-366, 2024.
104. **Shun Kitano, Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Hiroaki Hayashi, Yuki Matsumoto, Kosuke Ito, Yoshitaka Bito *and* Akihiro Haga :** Conversion Map from Quantitative Parameter Mapping to Myelin Water Fraction: Comparison with R1·R2\* and Myelin Water Fraction in White Matter., *Magma,* 2024.
105. **Yuki Kanazawa, Yo Taniguchi, Masafumi Harada, Kosuke Ito *and* Yoshitaka Bito :** Visualization of Human Brain Cortical Layers Using Quantitative Parameter Mapping on a 3 Tesla Scanner, *Proceedings of ISMRM,* **33,** 2933, 2024.
106. **Ping Ye, Wei Zhao, Taisei Shimomura, Kai-Wen Li, Akihiro Haga *and* Li-Sheng Geng :** Pixel-by-pixel correction of beam hardening artifacts by bowtie filter in fan-beam CT, *Physics in Medicine and Biology,* **69,** *9,* 2024.
107. **Atsushi Takeya, Keiichiro Watanabe *and* Akihiro Haga :** Fine structural human phantom in dentistry and instance tooth segmentation, *Scientific Reports,* **14,** *12630,* 2024.
108. **Yasuhisa Kanematsu, Yuki Kanazawa, Kenji Shimada, Masaaki Korai, Takeshi Miyamoto, Shu Sogabe, Manabu Ishihara, Izumi Yamaguchi, Takeshi Oya, Nobuaki Yamamoto, Yuki Yamamoto, Miyoshi Mitsuharu, Masafumi Harada *and* Yasushi Takagi :** Characterization of carotid plaques using chemical exchange saturation transfer imaging, *Neuroradiology,* **66,** *9,* 1617-1624, 2024.
109. **Keitaro Akita, Kenya Kusunose, Akihiro Haga, Taisei Shimomura, Yoshitaka Kosaka, Katsunori Ishiyama, Kohei Hasegawa, Michael A. Fifer, Mathew S. Maurer *and* Yuichi J. Shimada :** Deep learning of echocardiography distinguishes between presence and absence of late gadolinium enhancement on cardiac magnetic resonance in patients with hypertrophic cardiomyopathy, *Echo Research & Practice,* **11,** *23,* 1-10, 2024.
110. **Yoshihide Sato, Dousatsu Sakata, David Bolst, Edward Simpson, Chacon Andrew, Safavi-Naeini Mitra, Guatelli Susanna *and* Akihiro Haga :** Validation of LightIon Quantum Molecular Dynamics (LIQMD) model for hadron therapy, *Physica Medica,* **128,** 104850, 2024.
111. **P Arce, J W Archer, L Arsini, A. Bagulya, D Bolst, J C M Brown, B Caccia, A Chacon, G P A Cirrone, M Cort A es-Giraldo, D Cutajar, G Cuttone, P Dondero, A Dotti, B Faddegon, S Fattori, C Fedon, S Guatelli, Akihiro Haga, S Incerti, V Ivanchenko, D Konstantinov, I Kyriakou, A Le, Z Li, M Maire, A Malaroda, C ManciniTerracciano, A Mantero, C Michelet, G. Milluzzo, F Nicolanti, M Novak, C Omachi, L Pandola, J. H. Pensavalle, A Perales, Y Perrot, G Petringa, S Pozzi, J M Quesada, J RamosM endez, F Romano, A B Rosenfeld, M SafaviNaeini, D Sakata, L.G. Sarmiento, T Sasaki, Yoshihide SATO, A Sciuto, I Sechopoulos, E C Simpson, R. Stanzani, A. Tomal, T Toshito, N H Tran, C. White *and* D H Wright :** Results of a Geant4 benchmarking study for bio-medical applications, performed with the G4Med system, developed by the Geant4 Medical Simulation Benchmarking Group, *Medical Physics,* 1-55, 2025.
112. **Rina Nishigami, Hiroaki Hayashi, daiki Kobayashi, Tatsuya Maeda, takashi Asahara, Yuki Kanazawa, Tomonobu Haba, Natsuki Kimoto *and* Shuichiro Yamamoto :** Suitability of High Tube Voltage Imaging for General Radiography When Using Energy Resolving Photon Counting Detectors, *The 3rd International Conference on Radiological Physics and Technology (ICRPT),* Yokohama, Apr. 2024.
113. **Daiki Kobayashi, Hiroaki Hayashi, Rina Nishigami, Tatsuya Maeda, Takashi Asahara, Yuki Kanazawa, Akitoshi Katsumata, Natsuki Kimoto *and* Shuichiro Yamamoto :** A correction method for image blurring to derive accurate quantitative material information using an energy resolving photon counting detector, *The 3rd International Conference on Radiological Physics and Technology (ICRPT),* Yokohama, Apr. 2024.
114. **Sota Goto, Hiroaki Hayashi, Tatsuya Maeda, Kazuki Takegami, Rina Nishigami, Daiki Kobayashi, Takashi Asahara *and* Yuki Kanazawa :** A novel analysis method to determine surface radiation dose taking into account the incident angle of X-rays during a helical scanning CT examination, *The 3rd International Conference on Radiological Physics and Technology (ICRPT),* Yokohama, Apr. 2024.
115. **Kanon Monda, Hitoshi Ikushima, Yuki Matsumoto, Motoharu Sasaki, Micihito Shimokawa *and* Akihiro Haga :** Proposal of a differential diagnostic index for recurrent brain metastasis or radiation-induced brain necrosis by radiomics analysis using C-11 methionine PET, *The 3rd ICRPT,* Apr. 2024.
116. **Ohshiro Ryuji, Yuki Kanazawa, Akihiro Haga *and* Masafumi Harada :** Development of numerical phantom converting from electron microscopic analysis to multi-component water fraction for MRI simulator., *The 33st Annual Meeting of ISMRM,* Singapore, May 2024.
117. **Yuki Kanazawa, Yo Taniguchi, Masafumi Harada, Kosuke Ito *and* Yoshitaka Bito :** Visualization of Human Brain Cortical Layers Using Quantitative Parameter Mapping on a 3 Tesla Scanner, *The 33st Annual Meeting of ISMRM,* Singapore, May 2024.
118. **Yoshihide Sato, Dousatsu Sakata, David Bolst, Edward Simpson, Susanna Guatelli *and* Akihiro Haga :** Validation of fragment cross section with Light Ion QMD model, *62nd Annual PTCOG conference,* Jun. 2024.
119. **Ren Iwasaki, Kenya Kusunose, Hidekazu Tanaka, Makoto Miyake, Kenji Moriuchi, Yasuharu Takeda, Hirotsugu Yamada *and* Akihiro Haga :** Left Ventricular Ejection Fraction Prediction: Preprocessing Network & Data Augmentation for Echocardiographic Standardization, *The 10th JKMP meeting at Nagoya,* Sep. 2024.
120. **Ohshiro Ryuji, Yuki Kanazawa, Akihiro Haga *and* Masafumi Harada :** How Do We Determine the Water Volume in the Central Nervous System?, *RSNA2024 (the 110th Scientific Assembly and AnnualMeeting of the Radiological Society of North America),* Chicago, Dec. 2024.
121. **Mayuka Seguchi, Yuki Kanazawa, Tosiaki Miyati, Masafumi Harada, Mitsuharu Miyoshi, Hiroaki Hayashi *and* Akihiro Haga :** How Can We Measure Biological Viscosity Non-Invasively Using MRI?, *RSNA2024 (the 110th Scientific Assembly and Annual Meeting of the Radiological Society of North America),* Chicago, Dec. 2024.
122. **Yoshihide Sato *and* Akihiro Haga :** INVESTIGATION OF OPTIMAL GAUSSIAN WAVE PACKET WIDTH IN GEANT4 QUANTUM MOLECULAR DYNAMICS MODEL, *MMND 2025,* Feb. 2025.
123. **Mayuka Seguchi, Yuki Kanazawa, Tosiaki Miyati, Masafumi Harada, Mitsuharu Miyoshi, Hiroaki Hayashi, Yasuhisa Kanematsu, Yasushi Takagi *and* Akihiro Haga :** Can We Determine Viscosity for Atherosclerotic Plaque Formations?, *European Congress of Radiology ECR2024,* Wien, Mar. 2025.
124. **瀬口 真友香, 金澤 裕樹, 宮地 利明, 原田 雅史, 三好 光晴, 林 裕晃, 芳賀 昭弘 :** 粘稠度導出法を用いたアテローム性動脈硬化症の臨床検討, *第80回日本放射線技術学会総会学術大会,* 2024年4月.
125. **大城 隆嗣, 金澤 裕樹, 芳賀 昭弘, 原田 雅史 :** 生体構造解析を目的としたMR信号数値ファントムの開発, *第80回日本放射線技術学会総会学術大会,* 2024年4月.
126. **芳賀 昭弘 :** 徳島大学大学院保健科学研究科医学物理学コース紹介, *第127回日本医学物理学会,* 2024年4月.
127. **芳賀 昭弘 :** 特別企画「AI を用いた消化器診療はどこまで進んだのか?」まとめと今後の展望, *第110回日本消化器病学会総会,* 2024年5月.
128. **芳賀 昭弘 :** 子宮頸癌におけるMRIレディオミクス, *小線源治療部会第26回大会,* 2024年5月.
129. **外礒 千智, 生島 仁史, 芳賀 昭弘, 佐々木 幹治, 川中 崇, 久保 亜貴子, 西村 正人, 阿部 彰子 :** 子宮頸癌リンパ節転移の術前予測におけるMRIレディオミクス解析の有用性, *第66回日本婦人科腫瘍学会学術講演会,* 2024年7月.
130. **村田 誠也, 芳賀 昭弘 :** 敵対的生成ネットワークを用いたCBCTの画質改善, *第26回 鹿児島放射線治療技術研究会,* 2024年8月.
131. **瀬口 真友香, 金澤 裕樹, 宮地 利明, 原田 雅史, 三好 光晴, 林 裕晃, 芳賀 昭弘 :** 粘稠度DWI-MRIを用いたアテローム性動脈硬化症の臨床検討 - 健常者との比較 -, *第52回日本磁気共鳴医学会大会 JSMRM2024,* 2024年9月.
132. **大城 隆嗣, 金澤 裕樹, 芳賀 昭弘, 原田 雅史 :** 生体構造解析を目的としたMR信号数値ファントムの開発, *第52回日本磁気共鳴医学会大会 JSMRM2024,* 2024年9月.
133. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Taniguchi Yo *and* Ono Masaharu :** Development of Extracellular pH Mapping Method using Quantitative Parameter Mapping(QPM)and Gadolinium-based Contrast Agents, *JSMRM2024,* Sep. 2024.
134. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Taniguchi Yo *and* Ono Masaharu :** Basic Considerations for the Development of Gadolinium Contrast Agents with High pH Sensitivity, *JSMRM2024,* Sep. 2024.
135. **瀬口 真友香, 金澤 裕樹, 宮地 利明, 三好 光晴, 原田 雅史 :** グリセリン試料の拡散強調MRIを用いた粘稠度導出手法の検討, *第51回日本磁気共鳴医学会大会 JSMRM2023,* 2024年9月.
136. **門田 香音, 松元 友暉, 生島 仁史, 佐々木 幹治, 芳賀 昭弘 :** 11C-Methionine PETラジオミクスによる脳腫瘍の再発と壊死の鑑別, *日本放射線腫瘍学会第37回学術大会,* 2024年11月.
137. **Akihiro Haga, Yoshihide Sato, Hana Fujiwara, Dousatsu Sakata, David Bolst, Edward C. Simpson *and* Susanna Guatelli :** Quantum molecular dynamics model based on relativistic mean field theory for light nucleus fragmentation in hadron therapy, *Physical Review C,* **112,** 024607, 2025.
138. **Shunsuke Uotani, Yuki Kanazawa, Akihiro Haga, Yo Taniguchi, Masahiro Takizawa, Motoharu Sasaki *and* Masafumi Harada :** Development of a tissue water fraction analysis method using quantitative parameter mapping for magnetic resonance imaging, *Radiological Physics and Technology,* **18,** *3,* 633-643, 2025.
139. **Kai Hashimoto, Yoshihide Sato, Dousatsu Sakata, David Bolst, Edward C. Simpson, Susanna Guatelli *and* Akihiro Haga :** Optimization of Light-Ion QMD Model for Nuclear Fragmentation in Proton Therapy, *ICRPT2025,* Yokohama, Apr. 2025.
140. **Ren Iwasaki, Kenya Kusunose, Hidekazu Tanaka, Makoto Miyake, Kenji Moriuchi, Yasuharu Takeda, Hirotsugu Yamada *and* Akihiro Haga :** Inter-Machine Harmonization in Echocardiographic Videos for Predicting Left Ventricular Ejection Fraction, *67th AAPM annual meeting,* Washington DC, Jul. 2025.
141. **芳賀 昭弘 :** 物理学と機械学習, *第129回日本医学物理学会教育講演,* 2025年4月.
142. **芳賀 昭弘, 佐藤 義秀, 藤原 春奈, 坂田 洞察, David Bolst, Edward Simpson, Susanna Guatelli :** ハドロン治療への応用に向けた 相対論的原子核模型に基づくQMDシミュレーション, *第2回EGS5-Geant4-PHITS合同研究会,* 2025年5月.
143. **大西 直樹, 芳賀 昭弘 :** 仮想CBCTとAI技術を用いた 歯のオートセグメンテーション手法の開発, *がんプロ合同医学物理学研究室会,* 2025年6月.
144. **藤原 大裕, 芳賀 昭弘 :** 仮想CT装置による再構成画像を用いた深層学習に基づく物質密度分布推定法の開発, *がんプロ合同医学物理学研究室会,* 2025年6月.
145. **藤原 春奈, 芳賀 昭弘 :** 重粒子線治療エネルギーレンジにおけるGeant4核破砕片シミュレーションの精度検証, *がんプロ合同医学物理学研究室会,* 2025年6月.
146. **Akihiro Haga, Yoshihide Sato, Hana Fujiwara, Dousatsu Sakata, David Bolst, Edward C. Simpson *and* Susanna Guatelli :** Quantum molecular dynamics model based on relativistic mean field theory for hadron therapy, *G4 hadron physics meeting,* Apr. 2025.