1. **Tadashi Kondo :** Nonlinear Pattern Identification by Multi-Layered GMDH-type Neural Network Self-Selecting Optimum Neural Network Architecture, *Neural Information processing,* 882-891, 2008.
2. **Tadashi Kondo *and* Junji Ueno :** Medical image recognition of abdominal multi-organs by RBF GMDH-type neural network, *International Journal of Innovative Computing, Information and Control,* **Vol.5,** *No.1,* 225-240, 2009.
3. **Tadashi Kondo *and* Junji Ueno :** Medical Image Recognition of Abdominal Organs by RBF GMDH-type Neural Network, *Proceedings of the 39th ISCIE International Symposium In Stochastic Systems Theory and Its Applications,* 177-182, Jun. 2008.
4. **Tsuyosi Kudo, Tadashi Kondo, Takaomi Matuki, Atusi Itami, Masahiro Nakagawa *and* Yusuke Matumura :** Recognition of 3-dimensional medical images of the head by radial basis function (RBF) neural network, *Proceedings of the 39th ISCIE International Symposium In Stochastic Systems Theory and Its Applications,* 207-212, Jun. 2008.
5. **Takaomi Matuki, Tadashi Kondo, Tsuyosi Kudo, Atusi Itami, Masahiro Nakagawa *and* Yusuke Matumura :** Recognition of 3-dimensional medical images of the lungs, pulmonary vessels andf bronchial trees by artificial neural networks, *Proceedings of the 39th ISCIE International Symposimum In Stochastic Systems Theory and Its Applications,* 201-206, Jun. 2008.
6. **Tadashi Kondo :** Feedback GMDH-type neural network using prediction error criterion and its application to 3-dimensional medical image recognition, *SICE Annual Conference 2008,* 1050-1055, Aug. 2008.
7. **Tadashi Kondo :** Feedback GMDH-type neural network algorithm using prediction error criterion for self-organization, *SICE Annual Conference 2008,* 1044-1049, Aug. 2008.
8. **Masahiro Nakagawa, Tadashi Kondo, Tsuyoshi Kudo *and* Junji Ueno :** Three-dimensional medical image recognition of cancer of the liver by artificial neural network, *Abstracts of the 40th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 87-88, Nov. 2008.
9. **Tadashi Kondo *and* Junji Ueno :** Revised GMDH-type neural network algorithm for medical image recognition and its application to 3-demensional medical image analysis of the heart, *Abstracts of the 40th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 41-42, Nov. 2008.
10. **Tsuyoshi Kudo, Tadashi Kondo, Masahiro Nakagawa *and* Junji Ueno :** Medical image recognition of the white and gray matters of the brain by radial basis function (RBF) neural network, *Abstracs of the 40th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 19-20, Nov. 2008.
11. **Chihiro Kondo *and* Tadashi Kondo :** Revised GMDH-type neural network algorithm self-selecting optimum neural network architecture, *The Fourteenth International Symposium on Artificial Life and Robotics 2009,* 410-413, Feb. 2009.
12. **Chihiro Kondo *and* Tadashi Kondo :** Three-dimensional medical image analysis of the heart by the revised GMDH-type neural network self-selecting optimum neural network architecture, *The Fourteenth International Symposium on Artificial Life and Robotics 2009,* 397-400, Feb. 2009.
13. **Masahiro Nakagawa, Tadashi Kondo, Tsuyosi Kudo, Shoichiro Takao *and* Junji Ueno :** Three-dimensional medical image recognition of cancer of the liver by the revised radial basis function (RBF) neural network algorithm, *The Fourteenth International Symposium on Artificial Life and Robotics 2009,* 385-388, Feb. 2009.
14. **山崎 紘明, 山田 健二, 薮内 詳子, 西原 貞光, 曽我 啓, 藤本 昂也, 酒田 俊介, 八木 浩史 :** 増感紙フィルム系を利用したX線管焦点サイズの評価, *中四国放射線医療技術, No.4,* 166, 2009年2月.
15. **曽我 啓, 藤本 昂也, 西原 貞光, 酒田 俊介, 山崎 紘明, 八木 浩史 :** 胸部X線撮影における付加フィルタの違いによる被写体コントラストの変化, *中四国放射線医療技術, No.4,* 161, 2009年2月.
16. **藤本 昂也, 曽我 啓, 西原 貞光, 酒田 俊介, 山崎 紘明, 八木 浩史 :** CRシステムを用いた胸部X線撮影時の適切な撮影条件(特に線質)の検討, *中四国放射線医療技術, No.4,* 160, 2009年2月.
17. **酒田 俊介, 八木 浩史, 曽我 啓, 藤本 昂也, 山崎 紘明, 西原 貞光 :** 処理済みドライ式フィルムの写真濃度に与える周辺環境の影響, *中四国放射線医療技術, No.4,* 167, 2009年2月.
18. **藪内 詳子, 山田 健二, 西原 貞光, 八木 浩史, 佐藤 一雄 :** CRシステムを用いたX線管焦点寸法の検討(第1報), *中四国放射線医療技術, No.4,* 163, 2009年2月.
19. **山田 健二, 藪内 詳子, 西原 貞光, 八木 浩史, 佐藤 一雄 :** CRシステムを用いたX線管焦点寸法の検討(第2報), *中四国放射線医療技術, No.4,* 164, 2009年2月.
20. **近藤 正 :** 最適なネットワーク構造の自己選択機能を備えたフィードバックGMDH-typeニューラルネットワークによる心臓領域の3次元医用画像認識, *平成21年電気学会電子情報システム部門大会講演論文集,* 1245-1250, 2009年3月.
21. **西原 貞光 :** デジタル撮影における画像評価(テーマ:「放射線防護の観点からのデジタル画像」,パネルディスカッション,第26回防護分科会後抄録), *放射線防護分科会会誌,* **Vol.27,** 40-44, 2008年10月.
22. **西原 貞光 :** ディジタル特性曲線の表示方法に関する提案, *画像通信,* **Vol.31,** *No.1,* 72-76, 2009年3月.
23. **Chihiro Kondo, Tadashi Kondo *and* Junji Ueno :** Three-dimensional medical image analysis of the heart by the revised GMDH-type neural network self-selecting optimum nrural network architecture, *Artificial Life and Robotics,* **Vol.14,** *No.2,* 123-128, 2009.
24. **Masahiro Nakagawa, Tadashi Kondo, Kudo Tsuyosi, Shoichiro Takao *and* Junji Ueno :** Three-dimensional medical image recognition of the cancer of the liver by a revised radial basis function (RBF) neural network algorithm, *Artificial Life and Robotics,* **Vol.14,** *No.2,* 118-122, 2009.
25. **Chihiro Kondo *and* Tadashi Kondo :** Revised GMDH-type neural network algorithm self-selecting optimum neural network architecture, *Artificial Life and Robotics,* **Vol.14,** *No.4,* 519-523, 2009.
26. **Hai Lan, Sadamitsu Nishihara *and* Hiromu Nishitani :** Accuracy of computed tomography attenuation measurements for diagnosing anemia., *Japanese Journal of Radiology,* **Vol.28,** *No.1,* 53-57, 2010.
27. **Shoichiro Takao, Toshinori Sakai, Koichi Sairyo, Tadashi Kondo, Junji Ueno, Natsuo Yasui *and* Hiromu Nishitani :** Radiographic comparison between male and female patients with lumbar spondylolysis., *The Journal of Medical Investigation : JMI,* **Vol.57,** *No.1-2,* 133-137, 2010.
28. **西原 貞光 :** 1．画像解析の基礎に関する全体的な流れと概念, *日本放射線技術学会雑誌,* **Vol.65,** *No.12,* 1667-1670, 2009年12月.
29. **Tadashi Kondo *and* Junji Ueno :** Revised GMDH-type neural network algorithm for medical image recognition and its application to 3-dimensional medical image analysis of the heart, *Proceedings of the 40th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 148-153, Jun. 2009.
30. **Masahiro Nakagawa, Tadashi Kondo, Tsuyosi Kudo, Shoichiro Takao *and* Junji Ueno :** Three-dimensional medical image recognition of the cancer of the liver by artificial neural network, *Proceedings of the 40th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 171-175, Jun. 2009.
31. **Tsuyosi Kudo, Tadashi Kondo, Masahiro Nakagawa *and* Junji Ueno :** Medical image recognition of the white and gray matters of the brain by radial basis function (RBF) neural network, *Proceedings of the 40th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 259-263, Jun. 2009.
32. **Chihiro Kondo *and* Tadashi Kondo :** Revised RBF network algorithm and its application to the interactive art system, *ICROS-SICE International Joint Conference 2009,* 4526-4529, Aug. 2009.
33. **Chihiro Kondo *and* Tadashi Kondo :** Three-dimensional medical image recognition of the heart by revised GMDH-type neural network algorithm, *ICROS-SICE International Joint Conference 2009,* 2504-2509, Aug. 2009.
34. **Chihiro Kondo *and* Tadashi Kondo :** Identification of the interactive art system using the revised RBF network, *Abstract of the 41st ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 33-34, Nov. 2009.
35. **Tadashi Kondo, Masahiro Nakagawa, Shoichiro Takao *and* Junji Ueno :** Medical image recognition of cancer of the liver by GMDH-type neural network, *Abstract of the 41st ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 39-40, Nov. 2009.
36. **Masahiro Nakagawa, Tadashi Kondo, Shoichiro Takao *and* Junji Ueno :** 3-dimensional medical image recognition of the lung by the revised radial basis function (RBF) neural network algorithm, *Abstracts of the 41st ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 37-38, Nov. 2009.
37. **Chihiro Kondo, Tadashi Kondo *and* Junji Ueno :** Feedback GMDH-type neural network algorithm and its application to medical image analysis of cancer of the liver, *The Fifteenth International Symposium on Artificial Life and Robotics 2010,* 790-793, Beppu, Feb. 2010.
38. **Chihiro Kondo *and* Tadashi Kondo :** Learning algorithm of the revised RBF network and its application to the media art system, *The Fifteenth International Symposium on Artificial Life and Robotics 2010,* 786-789, Beppu, Feb. 2010.
39. **近藤 正 :** 医用画像解析のためのフィードバックGMDH-typeニューラルネットワークアルゴリズムと心臓のマルチスライスCT画像解析, *電子情報通信学会技術研究報告,* **Vol.MBE2009,** 1-6, 2009年7月.
40. **近藤 正, 上野 淳二 :** 最適なネットワーク構造の自己選択能力を備えた改良形GMDH-typeニューラルネットワークと心臓領域の3次元医用画像認識への応用, *電子情報通信学会技術研究報告,* **Vol.MI2009,** *No.50,* 57-62, 2009年7月.
41. **中川 雅博, 近藤 正, 髙尾 正一郎, 上野 淳二 :** 改良形RBFネットワークを用いた肺野領域の画像認識, *中四国放射線医療技術, No.5,* 168, 2009年11月.
42. **山砥 征弥, 山田 健二, 西原 貞光, 徳永 望, 富永 晴子, 増井 悠太, 天野 雅史, 川口 和雅, 八木 浩史 :** 胸部X線撮影時における撮影条件の検討—肺野ファントムを用いた視覚評価—, *中四国放射線医療技術, No.5,* 148, 2010年1月.
43. **徳永 望, 國金 大和, 西原 貞光, 富永 晴子, 増井 悠太, 山砥 征弥, 天野 雅史, 川口 和雅, 八木 浩史 :** スキャン速度の変化による腫瘍シンチの画像評価, *中四国放射線医療技術, No.5,* 58, 2010年1月.
44. **富永 晴子, 八木 浩史, 上野 典子, 川口 和雅, 徳永 望, 増井 悠太, 山砥 征弥, 西原 貞光 :** ディジタルマンモグラフィの撮影条件に関する検討, *中四国放射線医療技術, No.5,* 173, 2010年1月.
45. **増井 悠太, 上野 典子, 西原 貞光, 徳永 望, 富永 晴子, 山砥 征弥, 天野 雅史, 川口 和雅, 八木 浩史 :** 表計算ソフトウェアを用いた乳房撮影時の患者被曝線量の簡易推定法, *中四国放射線医療技術, No.5,* 153, 2010年1月.
46. **山田 健二, 藪内 詳子, 天野 雅史, 西原 貞光, 八木 浩史, 川口 和雅 :** CRシステムを用いたX線管焦点寸法の検討(第3報), *中四国放射線医療技術, No.5,* 62, 2010年1月.
47. **西原 貞光 :** 国際交流活動の現状から見る放射線技術学研究の将来展望, *中四国放射線医療技術, No.5,* 100, 2010年1月.
48. **近藤 正, 上野 淳二 :** 改良形GMDH-typeニューラルネットワークによる肝がんの医用画像診断, *第37回知能システムシンポジューム,* 135-140, 2010年3月.
49. **坂下 惠治, 藤田 広志, 原 武史, 西原 貞光, 小林 宏之, 石井 勉, 溝端 康光, 中島 義和 :** 救急CT画像のCADシステムに関する研究班報告書, *日本放射線技術学会雑誌,* **Vol.65,** *No.7,* 1002-1007, 2009年7月.
50. **藤本 昂也, 西原 貞光, 八木 浩史, 曽我 啓 :** 異なる線質で撮影したCR システムにおける模擬肺結節陰影の検出能に関する実験的研究, *日本放射線技術学会雑誌,* **Vol.66,** *No.11,* 1480-1484, 2010年.
51. **Tadashi Kondo, Chihiro Kondo, Shoichiro Takao *and* Junji Ueno :** Feedback GMDH-type neural network algorithm and its application to medical image analysis of cancer of the liver, *Artificial Life and Robotics,* **Vol.15,** *No.3,* 264-269, 2010.
52. **Chihiro Kondo *and* Tadashi Kondo :** Learning algorithm of the revised RBF network and its application to the media art system, *Artificial Life and Robotics,* **Vol.15,** *No.3,* 258-263, 2010.
53. **西原 貞光 :** 10．画像解析の基礎: 講座の終わりにあたって, *日本放射線技術学会雑誌,* **Vol.67,** *No.1,* 91-97, 2011年1月.
54. **Chihiro Kondo *and* Tadashi Kondo :** Identification of the interactive art system using the revised RBF network, *Proceedings of the 41th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 63-68, Kobe, Jun. 2010.
55. **Masahiro Nakagawa, Tadashi Kondo, Shoichiro Takao *and* Junji Ueno :** Three-dimensional medical image recognition of the lung by the revised radial basis function (RBF) network algorithm, *Proceedings of the 41th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 75-80, Kobe, Jun. 2010.
56. **Tadashi Kondo, Masahiro Nakagawa, Shoichiro Takao *and* Junji Ueno :** Medical image recognition of cancer of the liver by GMDH-type neural network, *Proceedings of the 41th International Symposium on Stochastic Systems Theory and Its Applications,* 81-86, Kobe, Jun. 2010.
57. **Tadashi Kondo *and* Junji Ueno :** Nonliear system identification by feedback GMDH-type neural network with architecture self-selecting function, *Proceedings of 2010IEEE Multi-Conference on System and Control,* 1521-1526, Yokohama, Sep. 2010.
58. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer using neural natwork and artificial intelligence, *Proceedings of the 2010 International Symposium on Intelligent Systems, No.S6-8-3,* 1-6, Tokyo, Sep. 2010.
59. **Tadashi Kondo *and* Junji Ueno :** Feedback GMDH-type neural network and its application to medical image analysis of the liver cancer, *Abstracts of the 42th ISCIE international symposium on stochastic systems theory and its applications,* 81-82, Okayama, Nov. 2010.
60. **Tadashi Kondo *and* Junji Ueno :** Medical image diagnosis of liver cancer using multi-layered GMDH-type neural network, *Proceedings of Joint 5th International Conference on Soft Computing and Intelligent Systems and 11th International Symposium on Advanced Intelligent Systems,* 446-451, Okayama, Dec. 2010.
61. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by revised GMDH-type neural network using knowledge base, *Proceedings of International Forum on Medical Imaging in Asia 2011,* 1-7, Naha, Jan. 2011.
62. **Tadashi Kondo *and* Junji Ueno :** Medical image diagnosis of lung cancer by revised GMDH-type neural network using various kinds of neurons, *Proceedings of the sixteenth International Symposium on Artificial Life and Robotics 2011,* 866-869, Beppu, Jan. 2011.
63. **近藤 正, 上野 淳二, 髙尾 正一郎 :** 改良形GMDH-typeニューラルネットワークを用いた肝臓癌の医用画像診断, *電子情報通信学会技術研究報告,* **Vol.MI2010-42,** 27-32, 2010年7月.
64. **近藤 正, 上野 淳二, 髙尾 正一郎 :** 人工知能を用いた肝臓癌の医用画像診断, *Proceedings of JAMIT2010, No.OP4-5,* 1-10, 2010年7月.
65. **森 裕一朗, 小原 知大, 西原 貞光 :** 本学におけるX線CT装置の性能評価実験環境の構築, *中四国放射線医療技術フォーラム プログラム抄録集,* 48, 2010年10月.
66. **小原 知大, 森 裕一朗, 西原 貞光 :** 距離の逆二乗法則を利用した画像生成システムに対する入力信号の正確性と再現性の検討, *中四国放射線医療技術フォーラム プログラム抄録集,* 83, 2010年10月.
67. **近藤 正 :** 人工知能を用いた医用画像診断支援システムの開発, *計測自動制御学会四国支部学術講演会論文集, No.241,* 1-2, 2010年11月.
68. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer using a neural network and artificial intelligence, *Journal of Advanced Computational Intelligence and Intelligent Informatics,* **Vol.15,** *No.6,* 714-722, 2011.
69. **Hai Lan, Hiromu Nishitani, Sadamitsu Nishihara, Junji Ueno, Shoichiro Takao, Seiji Iwamoto, Takashi Kawanaka, Mawlan MAHMUT *and* Si QINGGE :** Using the MDCT thick slab MinIP method for the follow-up of pulmonary emphysema, *The Journal of Medical Investigation : JMI,* **Vol.58,** *No.3,* 175-179, 2011.
70. **西原 貞光, 林 裕晃 :** X線検出器(イメージングプレート)の放射能汚染に対する効果的な除染方法の提案, *日本放射線技術学会雑誌,* **Vol.67,** *No.8,* 912-915, 2011年.
71. **Tadashi Kondo *and* Junji Ueno :** Medical image diagnosis of lung cancer by revised GMDH-type neural network using various kinds of neurons, *Artificial Life and Robotics,* **Vol.16,** *No.3,* 301-306, 2011.
72. **林 裕晃, 福本 晃, 花光 宏樹, 西原 貞光, 神谷 尚武 :** EGS5コードを用いた診断用X線スペクトルの実用的な計算手法, *医用画像情報学会雑誌,* **Vol.29,** *No.3,* 62-67, 2012年.
73. **林 裕晃, 村上 淳, 花光 宏樹, 西原 貞光, 武田 俊一 :** 円環コリメータカメラを用いた漏洩X線源の同定手法, *日本放射線安全管理学会誌,* **Vol.12,** *No.1,* 30-35, 2012年.
74. **Tadashi Kondo *and* Junji Ueno :** Feedback GMDH-type Neural Network and Its Application to Medical Image Analysis of Liver Cancer, *International Journal of Innovative Computing, Information and Control,* **Vol.8,** *No.3,* 2285-2300, 2012.
75. **Tadashi Kondo *and* Junji Ueno :** Medical Image Diagnosis of Lung Cancer by Feedback GMDH-type Neural Network Self-selecting Neural Network Architectuer, *ICIC Express Letters (ICIC-EL),* **Vol.6,** *No.3,* 783-790, 2012.
76. **林 裕晃, 谷内 翔, 神谷 尚武, 西原 貞光, 富永 正英 :** 輝尽性蛍光体プレートを用いたピンホールカメラの開発と散乱X線分布および可視光画像の撮影, *日本放射線技術学会雑誌,* **Vol.68,** *No.3,* 307-311, 2012年.
77. **小沼 洋治, 林 美智子, 林 裕晃, 西原 貞光 :** X線検出器(イメージングプレート:IP)に付着した放射性同位元素の除染, *日本放射線技術学会雑誌,* **Vol.68,** *No.3,* 277-282, 2012年.
78. **林 裕晃, 神谷 尚武, 谷内 翔, 西原 貞光, 高志 智 :** 輝尽性蛍光体プレートを用いた多数点取得実験におけるフェーディング補正手法の提案, *医用画像情報学会雑誌,* **Vol.29,** *No.1,* 1-6, 2012年.
79. **林 裕晃, 西原 貞光, 谷内 翔, 神谷 尚武 :** 輝尽性蛍光体プレートを用いて取得したX線画像上の黒点発生の解明に向けたモンテカルロシミュレーション, --- 原子力発電所事故で飛散した核分裂収率の大きい放射性同位元素の影響 ---, *医用画像情報学会雑誌,* **Vol.29,** *No.1,* 7-11, 2012年.
80. **Tadashi Kondo :** Revised GMDH-type neural network using artificial intelligence and Its application to medical image diagnosis, *Proceedings of 2011 IEEE Symposium Series on Computational Intelligence,* 76-83, PARIS, FRANCE, Apr. 2011.
81. **Tadashi Kondo *and* Junji Ueno :** Fedback GMDH-type neural network and Its application to medical image analysis of liver cancer, *Proceedings of the 42th ISCIE Inernational Symposium on Stochastic Systems Theory and Its Applications,* 256-263, Okayama, Jun. 2011.
82. **Tadashi Kondo *and* Junji Ueno :** Revised GMDH-type neural network using principal component-regression analysis, *Proceedings of SICE annual conference 2011,* 1248-1253, Tokyo, Sep. 2011.
83. **Tadashi Kondo *and* Junji Ueno :** Medical image diagnosis of lung cancer by revised GMDH-type neural network using heuristic self-organization, *Proceedings of SICE annual concerence 2011,* 1254-1259, Tokyo, Sep. 2011.
84. **Shoichiro Takao, Koichi Sairyo, Tadashi Kondo, Junji Ueno, Natsuo Yasui *and* Hiromu Nishitani :** Lumbar spondylolysis: clinical significance of gender difference, *International Skeletal Society 2011 Annual Meeting,* San Diego, Sep. 2011.
85. **Tadashi Kondo *and* Junji Ueno :** A New Multi-layered GMDH-type Neural Network Algorithm Using Principal Component-Regression Analysis, *Abstracts of the 43rd ISCIE international sysmposium on Stochastic systems theory and its applications,* 30-31, Shiga, Oct. 2011.
86. **Tadashi Kondo *and* Junji Ueno :** Medical Image Diagnosis of Liver Cancer by Multi-layered GMDH-type Neural Network Using Artificial Intelligence Technology, *Abstracts of the 43rd ISCIE international symposium on stochastic systems theory and its applications,* 32-33, Shiga, Oct. 2011.
87. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of lung cancer by revised GMDH-type neural network self-selecting optimum neuron architectuers, *Proceedings of 2011 IEEE/SICE International Symposium on System Integration,* 1107-1112, Kyoto, Dec. 2011.
88. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Hybrid GMDH-type neural network using artificial intelligence and its application to medical image diagnosis of liver cancer, *Proceedings of 2011 IEEE/SICE International Symposium on System Integration,* 1101-1106, Kyoto, Dec. 2011.
89. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by feedback GMDH-type neural network using knowlege base, *Proceedings of the seventeenth International Symposium on Artificial Life and Robotics 2012,* 1021-1024, Beppu, Jan. 2012.
90. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of lung cancer by multi-layered GMDH-type neural network self-selecting functions, *Proceedings of the seventeenth International Symposium on Artificial Life and Robotics 2012,* 1009-1012, Beppu, Jan. 2012.
91. **近藤 正 :** ネットワーク構造の自己組織化を行う改良形GMDH-typeニューラルネットワークによる肺癌の医用画像診断, *電子情報通信学会技術研究報告,* **Vol.111,** *No.121,* 1-6, 2011年7月.
92. **近藤 正 :** フィードバックGMDH-typeニューラルネットワークによる肝臓癌の医用画像診断, *電子情報通信学会技術研究報告,* **Vol.111,** *No.121,* 7-12, 2011年7月.
93. **林 裕晃, 神谷 尚武, 谷内 翔, 西原 貞光 :** 多数点測定実験におけるIPのフェーディング補正手法の提案, *医用画像情報学会MII平成23年度秋季大会,* 2011年10月.
94. **西原 貞光, 大塚 昭義, 眞田 泰三, 林 裕晃 :** 重金属フィルタを利用した患者被ばく線量低減に関する基礎実験, *医用画像情報学会MII平成23年度秋季大会,* 2011年10月.
95. **林 裕晃, 西原 貞光, 小沼 洋治, 林 美智子 :** IPに付着した放射性物質の除染方法の提案とゲルマニウム検出器を用いた分析, *日本放射線技術学会第39回秋季大会,* 2011年10月.
96. **近藤 正 :** 知識ベースを備えた多層型GMDH-typeニューラルネットワークによる肝臓癌の医用画像診断, *第34回日本生体医工学会中四国支部講演抄録,* 1, 2011年11月.
97. **近藤 正 :** ネットワーク構造の自己選択を行うフィードバックGMDH-typeニューラルネットワークによる肺癌の医用画像診断, *第34回日本生体医工学会中四国支部講演抄録,* 2, 2011年11月.
98. **小沼 洋治, 林 美智子, 林 裕晃, 西原 貞光 :** X線検出器(イメージングプレート:IP)に付着した放射性同位元素の除染, *第59回日本職業・災害医学会,* 2011年11月.
99. **西原 貞光, 大塚 昭義, 眞田 泰三, 林 裕晃 :** 重金属フィルタを利用した患者被曝線量の低減に関する基礎実験, *中四国放射線医療技術フォーラム,* 2011年11月.
100. **河井 直樹, 西原 貞光, 山下 勇貴, 高志 智 :** 本学における画像生成システムの解像特性計測環境の構築, *中四国放射線医療技術フォーラム,* 2011年11月.
101. **山下 勇貴, 河井 直樹, 西原 貞光 :** ハウレットチャートを用いたX線透視装置の視覚評価と物理評価及びその比較, *中四国放射線医療技術フォーラム,* 2011年11月.
102. **近藤 正, 上野 淳二, 髙尾 正一郎 :** ニューロン構造の自己選択機能を備えたフィードバックGMDH-typeニューラルネットワークによる肺癌の医用画像診断, *電子情報通信学会技術研究報告,* **Vol.KBSE2011-54,** 7-12, 2012年1月.
103. **近藤 正, 上野 淳二, 髙尾 正一郎 :** 人工知能技術を用いた多層型GMDH-typeニューラルネットワークによる肝臓癌の医用画像診断, *電子情報通信学会技術研究報告,* **Vol.KBSE2011-53,** 1-6, 2012年1月.
104. **Tadashi Kondo :** Intelligent Decision Technologies (Eds. J.Watada et al.), Springer-Verlag Berlin Heidelberg, May 2012.
105. **Tadashi Kondo *and* Junji Ueno :** Medical Image Diagnosis of Liver Cancer by Multi-layered GMDH-type Neural Network Using Knowlege Base, *ICIC Express Letters (ICIC-EL),* **Vol.6,** *No.4,* 863-870, 2012.
106. **林 裕晃, 西原 貞光, 小沼 洋治 :** イメージングプレートの放射能汚染による黒点計数法の開発, *日本放射線技術学会雑誌,* **Vol.68,** *No.5,* 545-553, 2012年.
107. **林 裕晃, 谷内 翔, 神谷 尚武, 西原 貞光 :** X線用のピンホールカメラに用いるコリメータ径の最適化と画像周辺部での検出効率低下の補正手法の提案, *日本放射線安全管理学会誌,* **Vol.11,** *No.1,* 51-59, 2012年.
108. **林 裕晃, 花光 宏樹, 西原 貞光, 村上 淳 :** X線漏洩源の特定のための円環状コリメータカメラの開発, *日本放射線安全管理学会誌,* **Vol.11,** *No.1,* 44-50, 2012年.
109. **西原 貞光, 林 裕晃, 花光 宏樹, 森 美智子 :** 診療画像中に発生した黒点の原因となる放射性同位元素の付着部位に関する推定実験, *日本放射線技術学会雑誌,* **Vol.68,** *No.10,* 1307-1313, 2012年.
110. **林 裕晃, 西原 貞光, 高志 智, 花光 宏樹, 森 美智子, 三好 弘一, 小沼 洋治 :** Digital radiographyシステムで発生した黒点の放射能の推定, --- 輝尽性蛍光体板表面に直接付着した低濃度放射性同位元素起源の黒点の解析 ---, *日本放射線技術学会雑誌,* **Vol.68,** *No.11,* 1467-1473, 2012年.
111. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by feedback GMDH-type neural network using knowlege base, *Artificial Life and Robotics,* **Vol.17,** *No.3-4,* 488-494, 2012.
112. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by hybrid feedback GMDH-type neural network using heuristic self-organization, *ASE Science Journal,* **Vol.1,** 12-21, 2012.
113. **松浦 貴明, 林 裕晃, 花光 宏樹, 西原 貞光 :** セパレータを有する箔検電器の製作と診断用X線装置を用いた実験の提案, *日本放射線技術学会雑誌,* **Vol.69,** *No.3,* 239-243, 2013年.
114. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Feedback GMDH-type neural network algorithm using prediction error criterion defined as AIC, *Proceedings of the 4th international conference on intelligent decision technologies,* 313-322, Gifu, May 2012.
115. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by multi-layered GMDH-type neural network using artificial intelligence technology, *Proceedings of the 43th ISCIE International Symposium on Stochastic Systems Theory and its Applications,* 1-6, Shiga, Jul. 2012.
116. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** A new multi-layered GMDH-type neural network algorithm using principal component-regression analysis, *Proceedings of the 43th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 1-6, Shiga, Jul. 2012.
117. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of lung cancer by hybrid multi-layered GMDH-type neural network using knowlege base, *Proceedings of the 2012 International Conference on Complex Medical Engineering,* 663-668, Kobe, Jul. 2012.
118. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Feedback GMDH-type neural network self-selecting various functions and its application to medical image diagnosis of lung cancer, *Proceedings of 13th ACIS international conference on sofutware engineering, artificial intelligence, networking and parallel distrivuted computing (SNPD2012),* 203-208, Kyoto, Aug. 2012.
119. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by revised GMDH-type neural network using feedback loop calculation, *Proceedings of 2012 sixth international conference on genetic and evolutionary computing,* 237-240, Kitakyushu, Aug. 2012.
120. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Multi-layered GMDH-type neural network algorithm using principal component-regression analysis and PSS criterion, *Abstracts of the 44th ISCIE international symposium on stochastic systems theory and its applications,* 73-74, Tokyo, Nov. 2012.
121. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by multi-layered GMDH-type neural network using principal component-regression analysis and PSS criterion, *Abstracts of the 44th ISCIE international sysmposium on stochastic systems theory and its applications,* 119-120, Tokyo, Nov. 2012.
122. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Hybrid multi-layered GMDH-type neural network self-selecting various neurons and its application to medical image diagnosis of liver cancer, *Proceedings of international conference SCIS-ISIS 2012,* 1919-1924, Kobe, Nov. 2012.
123. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Hybrid feedback GMDH-type neural network self-selecting various neurons and its application to medical image diagnosis of lung cancer, *Proceedings of international conference SCIS-ISIS 2012,* 1925-1930, Kobe, Nov. 2012.
124. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Hybrid multi-layered GMDH-type neural network using principal component-regression analysis and its application to medical image diagnosis of lung cancer, *Proceedings of 2012 ASE International Conference on BioMedical Computing,* 575-582, Washington D. C., Dec. 2012.
125. **近藤 正, 上野 淳二, 髙尾 正一郎 :** 多層型人工ニューラルネットワーク構造の自己組織化機能を備えた改良形GMDH-typeニューラルネットワークによる肺癌の医用画像診断, *電子情報通信学会技術研究報告,* **Vol.IE2012-1,** 1-6, 2012年4月.
126. **近藤 正, 上野 淳二, 髙尾 正一郎 :** 予測誤差評価基準にAICを用いる改良形GMDH-typeニューラルネットワークアルゴリズム, *電子情報通信学会技術研究報告,* **Vol.KBSE2012-9,** 49-54, 2012年5月.
127. **近藤 正, 上野 淳二, 髙尾 正一郎 :** 発見的自己組織化の原理を用いてニューラルネットワーク構造を自己組織化する改良形GMDH-typeニューラルネットワークによる肝臓癌の医用画像診断, *電子情報通信学会技術研究報告,* **Vol.PRMU2012-32,** 17-22, 2012年9月.
128. **福本 晃, 西原 貞光, 秦 佑里奈, 林 裕晃 :** EGS5を用いたX 線診断領域におけるX 線スペクトルの検討:幾何学的配置による影響について, *中四国放射線医療技術フォーラム,* 140, 2012年10月.
129. **秦 佑里奈, 西原 貞光, 福本 晃 :** 重金属フィルタを用いた腹部X 線撮影時の視覚評価と撮影条件の検討, *中四国放射線医療技術フォーラム,* 235, 2012年10月.
130. **近藤 正, 上野 淳二, 髙尾 正一郎 :** 予測誤差評価基準に予測誤差平方和(PSS)を用いる多層構造型GMDH-typeニューラルネットワークアルゴリズムとその非線形システム同定への応用, *電子情報通信学会技術研究報告,* **Vol.KBSE2012-64,** 35-40, 2013年1月.
131. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of lung cancer by multi-layered GMDH-type neural network self-selecting functions, *Artificial Life and Robotics,* **Vol.18,** *No.1-2,* 20-26, 2013.
132. **林 裕晃, 花光 宏樹, 西原 貞光, 上野 淳二, 三好 弘一 :** 診断用X線装置を用いた霧箱実験の提案とシミュレーションコードを援用した解析, *日本放射線技術学会雑誌,* **Vol.69,** *No.4,* 386-392, 2013年.
133. **岸田 弥奈, 林 裕晃, 窪薮 友美, 竹上 和希, 井上 直, 花光 宏樹, 西原 貞光 :** 診断領域における散乱X線の可視化装置の製作と実習の提案, *日本放射線技術学会雑誌,* **Vol.69,** *No.5,* 500-507, 2013年.
134. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Hybrid multi-layered GMDH-type neural network using principal component regression analysis and its application to medical image diagnosis of liver cancer, *Procedia Computer Science,* **Vol.22,** 172-181, 2013.
135. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by RBF GMDH-type neural network using principal component-regression analysis, *ICIC Express Letters,* **Vol.8,** *No.3,* 1-8, 2014.
136. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by multi-layered GMDH-type neural network using principal component-regression analysis and PSS criterion, *Proceedings of the 44th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 255-262, Tokyo, Jun. 2013.
137. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Multi-layered GMDH-type neural network algorithm using principal component-regression analysis and PSS criterion, *Proceedings of the 44th ISCIE International Symposium on Stochastic Systems Theory and Its Applications,* 273-278, Tokyo, Jun. 2013.
138. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by RBF GMDH-type neural network using principal component-regression analysis, *Proceedings of the eighth international conference of the innovative computing, information and control (ICICIC2013),* 1-8, Kumamoto, Sep. 2013.
139. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Hybrid feedback GMDH-type neural network using principal component-regression analysis and its application to medical image diagnosis of lung cancer, *Proceedings of the eighth international conference of the innovative computing, information and control (ICICIC2013),* 1-8, Kumamoto, Sep. 2013.
140. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Hybrid multi-layered GMDH-type neural network using principal component regression analysis and its application to medical image diagnosis of liver cancer, *Proceedings of 17th international conference in knowledge based and intelligent information and engineering systems,* 39-48, Kitakyushu, Sep. 2013.
141. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Feedback RBF GMDH-type neural network using principal component-regression analysis and its application to medical image diagnosis of lung cancer, *Proceedings of the first international symposium on computing and networking,* 155-161, Matsuyama, Dec. 2013.
142. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by hybrid feedback GMDH-type neural network using principal component-regression analysis, *Proceedings of the nineteenth international symposium on artificial life and robotics,* 339-342, Beppu, Jan. 2014.
143. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Logistic GMDH-type neural network using principal component-regression analysis and its application to medical image diagnosis of lung cancer, *Proceedings of the nineteenth international symposium on artificial life and robotics,* 335-338, Beppu, Jan. 2014.
144. **近藤 正, 上野 淳二, 髙尾 正一郎 :** 予測誤差評価基準に予測誤差平方和(PSS)を用いる多層構造型GMDH-typeニューラルネットワークとその肝臓癌の医用画像診断への応用, *電子情報通信学会技術研究報告,* **Vol.IE2013-7,** 35-40, 2013年4月.
145. **林 裕晃, 西原 貞光, 谷内 翔, 神谷 尚武 :** 輝尽性蛍光体プレートを用いて取得したX線画像上の黒点発生の解明に向けたモンテカルロシミュレーション, --- 内田論文賞受賞記念講演 ---, *医用画像情報学会第166回年次大会,* 2013年6月.
146. **近藤 正, 上野 淳二, 髙尾 正一郎 :** 人工知能技術を用いたX線CT画像を対象にした医用画像診断支援システム, *電子情報通信学会技術研究報告,* **Vol.IBISML2013-11,** 75-80, 2013年7月.
147. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Hybrid feedback GMDH-type neural network using principal component-regression analysis and its application to medical image diagnosis of lung cancer, *ICIC Express Letters,* **Vol.8,** *No.4,* 1053-1060, 2014.
148. **Yuki Kanazawa, T Miyati, Hiroaki Hayashi, A Yagi *and* O Sato :** Optimization of imaging parameter in contrast-enhanced three-dimensional T1 weighted MRI with fat saturation for head disease., *European Congress of Radiology 2015 (EPOS),* C-1450, 2015.
149. **Hiroaki Hayashi, K Takegami, H Okino, K Nakagawa *and* Yuki Kanazawa :** Development of new educational apparatus to visualize scattered X-rays., *European Congress of Radiology 2015 (EPOS),* C-0073, 2015.
150. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Logistic GMDH-type neural network using principal component-regression analysis and its application to medical image diagnosis of lung cancer, *Artificial Life and Robotics,* **Vol.20,** *No.2,* 137-144, 2015.
151. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Hybrid feedback GMDH-type neural network using principal component-regression analysis and its application to medical image recognition of heart regions, *Proceedings of inetrnational conference of SCIS and ISIS 2014,* 1203-1208, kitakyushu, Dec. 2014.
152. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image recognition of abdominal multi-organs by hybrid multi-layered GMDH-type neural network using principal component-regression analysis, *Proceedings of 2014 second international symposium on computing and networking,* 157-163, Matuyama, Dec. 2014.
153. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Deep feedback GMDH-type neural network using principal component-regression analysis and its application to medical image recognition of abdominal multi-organs, *The proceedings of international conference on artificial life and robotics (ICAROB 2015),* 119-122, Oita, Jan. 2015.
154. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image recognition of heart regions by deep multi-layered GMDH-type neural network using principal component-regression analysis, *The proceedings of international conference on artificial life and robotics (ICAROB 2015),* 115-118, Oita, Jan. 2015.
155. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Deep multi-layered GMDH-type neural network using principal component-regression analysis and its application to medical image recognition of brain and blood vessels, *Proceedings of the twentieth international symposium on aritificial life and robotics 2015,* 92-95, Beppu, Jan. 2015.
156. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of kidney regions by deep feedback GMDH-type neural network using principal component-regression analysis, *Proceedings of the twentieth international symposium on artificial life and robotics 2015,* 424-427, Beppu, Jan. 2015.
157. **Hiroaki Hayashi, Kazuki Takegami, Hiroki Okino, Kohei Nakagawa *and* Yuki Kanazawa :** Development of new educational apparatus to visualize scattered X-rays, *European Congress of Radiology 2015 (EPOS),* Wien, Mar. 2015.
158. **Yuki Kanazawa, T. Miyati, Hiroaki Hayashi, A. Yagi *and* O. Sato :** Optimization of imaging parameter in contrast-enhanced three-dimensional T1 weighted MRI with fat saturation for head disease, *European Congress of Radiology 2015 (EPOS),* Wien, Mar. 2015.
159. **金澤 裕樹, 山田 哲也, 木戸 晶, 藤本 晃司, 小澤 聡, 小泉 幸司, 大國 万希子, 植田 直見, 富樫 かおり :** MRIを用いた水浸出土木材の内部性状の可視化 ―磁化移動効果を用いたポリエチレングリコールの浸透性測定―, *日本文化財科学会第31大会,* 2014年7月.
160. **金澤 裕樹, 山田 哲也, 木戸 晶, 藤本 晃司, 小澤 聡, 小泉 幸司, 大國 万希子, 植田 直見, 富樫 かおり :** 磁化移動効果を用いたポリエチレングリコールの浸透性測定, *第42回日本磁気共鳴医学会大会,* 2014年9月.
161. **H. Okino, Hiroaki Hayashi, K. Takegami, N. Kimoto, I. Maehata, Yuki Kanazawa, T. Okazaki, T. Hasizume *and* I. Kobayashi :** Proposal of efficient irradiation system of small type OSL dosimeter for photon beams between 100-2000 keV, *KEK proceedings,* **Vol.2015-6,** 1-10, Tsukuba, 2015.
162. **Hiroaki Hayashi, N. Kimoto, I. Maehata, K. Takegami, H. Okino, Yuki Kanazawa, M. Okada, T. Yamakawa, S. Yamamoto *and* M. Yamasaki :** A Fundamental Experiment for Novel Material Identification Method Based on a Photon Counting Technique: Using Conventional X-Ray Equipment, *IEEE Nuclear Science Symposium & Medical Imaging Conference, Conference Record,* 2015.
163. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Deep feedback GMDH-type neural network using principal component-regression analysis and its application to medical image recognition of abdominal multi-organs, *Journal of Robotics Networking and Artificial Life,* **Vol.2,** *No.2,* 94-99, 2015.
164. **Kazuki Takegami, Hiroaki Hayashi, Hiroki Okino, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tohru Okazaki *and* Ikuo Kobayashi :** Practical calibration curve of small-type optically stimulated luminescence (OSL) dosimeter for evaluation of entrance-skin dose in the diagnostic X-ray region, *Radiological Physics and Technology,* **Vol.8,** *No.2,* 286-294, 2015.
165. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by hybrid feedback GMDH-type neural network using principal component-regression analysis, *Artificial Life and Robotics,* **Vol.20,** *No.2,* 145-151, 2015.
166. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image recognition of heart regions by deep multi-layered GMDH-type neural network using principal component-regression analysis, *Journal of Robotics Networking and Artificial Life,* **Vol.2,** *No.3,* 166-172, 2015.
167. **Yuki Kanazawa, Hiroaki Hayashi *and* Masafumi Harada :** Clinical Approach of T1-mapping for Hemodynamic Analysis, *Medical Imaging and Information Sciences,* **Vol.32,** *No.4,* xxvi-xxix, 2015.
168. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** The 3-dimensional medical image recognition of right and left kidneys by deep GMDH-type neural network, *Journal of Bioinformatics and Neuroscience,* **Vol.1,** *No.1,* 14-23, 2015.
169. **Yuki Kanazawa, Yuto Konishi, Takatoshi Usuda, Yuki Matsumoto, Hiroaki Hayashi, Tsuyoshi Matsuda *and* Masafumi Harada :** Noise estimation for diffusion weighted MR image, *European Congress of Radiology (EPOS),* C-0591, 2016.
170. **Yuto Konishi, Yuki Kanazawa, Takatoshi Usuda, Yuki Matsumoto, Hiroaki Hayashi, Tsuyoshi Matsuda *and* Masafumi Harada :** Comparison with statistical analysis of signal correction in diffusion weighted MR image, *European Congress of Radiology (EPOS),* C-0291, 2016.
171. **Kazuki Takegami, Hiroaki Hayashi, Hiroki Okino, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Energy dependence measurement of small-type optically stimulated luminescence (OSL) dosimeter by means of characteristic X-rays induced with general diagnostic X-ray equipment, *Radiological Physics and Technology,* **Vol.9,** *No.1,* 99-108, 2016.
172. **Hiroaki Hayashi, Hiroki Okino, Kazuki Takegami, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tsutomu Yamakawa *and* Shuichiro Yamamoto :** Experimental evaluation of response functions of a CdTe detector in the diagnostic region with the aim of carrying out a basic experiment concerning a next generation photon counting system, *European Congress of Radiology (EPOS),* C-0006, 2016.
173. **Itsumi Maehata, Hiroaki Hayashi, Natsumi Kimoto, Hiroki Okino, Kazuki Takegami *and* Yuki Kanazawa :** Precise determination of the scattered X-ray contamination rate using diagnostic X-ray equipment for the construction of the secondary X-ray field, *European Congress of Radiology (EPOS),* C-0007, 2016.
174. **Kazuki Takegami, Hiroaki Hayashi, Hiroki Okino, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Proposal of quantitative identification method of a small-type OSL dosimeter: Verification that the dosimeter is not detected in the medical image, *European Congress of Radiology (EPOS),* C-0010, 2016.
175. **Natsumi Kimoto, Hiroaki Hayashi, Hiroki Okino, Kazuki Takegami, Itsumi Maehata, Yuki Kanazawa, Tsutomu Yamakawa *and* Shuichiro Yamamoto :** Fabrication and analysis of phantoms providing the equal-image-density for basic experiment of next-generation-type X-ray diagnosis, *European Congress of Radiology (EPOS),* C-0012, 2016.
176. **Hiroki Okino, Hiroaki Hayashi, Kazuki Takegami, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Compact irradiation system for evaluation of basic characteristics of the nanoDot OSL dosimeter toward direct measurement of exposure dose of patients, *European Congress of Radiology (EPOS),* C-0024, 2016.
177. **Hiroaki Hayashi, Natsumi Kimoto, Hiroki Okino, Kazuki Takegami, Itsumi Maehata *and* Yuki Kanazawa :** Development of leaf electroscope to understand ionization for novice practical training, *European Congress of Radiology (EPOS),* C-0083, 2016.
178. **Tohru Okazaki, Takuya Hashizume, Hiroaki Hayashi, Kazuki Takegami, Hiroki Okino, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa *and* Kobayashi Ikuo :** Evaluation of energy dependence of nanoDot optically stimulated luminescence (OSL) dosimeter using characteristic X-ray induced by medical X-ray equipment, *European Congress of Radiology (EPOS),* C-0338, 2016.
179. **Itsumi Maehata, Hiroaki Hayashi, Natsumi Kimoto, Kazuki Takegami, Hiroki Okino, Yuki Kanazawa *and* Masahide Tominaga :** Practical method for determination of air-kerma by using an ionization chamber toward the construction of secondary X-ray field to be used in clinical examination rooms, *Radiological Physics and Technology,* **Vol.9,** *No.2,* 193-201, 2016.
180. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of lung cancer by deep feedback GMDH-type neural network, *Journal of Robotics Networking and Artificial Life,* **Vol.2,** *No.4,* 252-257, 2016.
181. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image analysis of MRI brain images by deep RBF GMDH-type neural network using principal component-regression analysis, *Proceedings of 2015 IIAI 4th international congress on advanced informatics,* 586-592, Okayama, Jul. 2015.
182. **Hiroaki Hayashi, Natsumi Kimoto, Itsumi Maehata, Kazuki Takegami, Hiroki Okino, Yuki Kanazawa, Tsutomu Yamakawa, Shuichiro Yamamoto, Masashi Yamasaki *and* Masahiro Okada :** A Fundamental Experiment for Novel Material Identification Method Based on a Photon Counting Technique: Using Conventional X-Ray Equipment (PosNo=M3CP-125), *IEEE Nuclear Science Symposium & Medical Imaging Conference,* San Diego, Oct. 2015.
183. **Hiroaki Hayashi, Kazuki Takegami, Hiroki Okino, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tohru Okazaki *and* Ikuo Kobayashi :** Precise measurement of the angular and energy dependences of small-type OSL dosimeter in the diagnostic energy region, *RSNA2015, Education Exhibits,* Chicago, Nov. 2015.
184. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** The 3-dimensional medical image recognition of right and left kidneys by deep GMDH-type neural network, *Proceedings of International Conference on Intelligent Informatics and Biomedical Sciences,* 313-320, Okinawa, Dec. 2015.
185. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Deep feedback GMDH-type neural network and its application to medical image analysis of MRI brain images, *Proceedings of the Twenty-First International Symposium on Artificial Life and Robotics (AROB 21st 2016),* 233-236, Beppu, Jan. 2016.
186. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image analysis of abdominal X-ray CT images by deep multi-layered GMDH-type neural network, *Proceedings of the Twenty-First International Symposium on Artificial Life and Robotics (AROB 21st 2016),* 237-240, Beppu, Jan. 2016.
187. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of lung cancer by deep feedback GMDH-type neural network, *The proceedings of the 2016 International Conference on Artificial Life and Robotics (ICAROB 2016),* 125-129, Okinawa, Jan. 2016.
188. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image analysis of brain X-ray CT images by deep GMDH-type neural network, *The proceedings of the 2016 International Conference on Artificial Life and Robotics (ICAROB 2016),* 120-124, Okinawa, Jan. 2016.
189. **Hiroaki Hayashi, Hiroki Okino, Kazuki Takegami, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tsutomu Yamakawa *and* Shuichiro Yamamoto :** Experimental evaluation of response functions of a CdTe detector in the diagnostic region with the aim of carrying out a basic experiment concerning a next generation photon counting system, *European Congress of Radiology, 2016,* Wien, Mar. 2016.
190. **Kazuki Takegami, Hiroaki Hayashi, Hiroki Okino, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Proposal of quantitative identification method of a small-type OSL dosimeter: Verification that the dosimeter is not detected in the medical image, *European Congress of Radiology (General&Voice of EPOS), 2016,* Wien, Mar. 2016.
191. **Natsumi Kimoto, Hiroaki Hayashi, Hiroki Okino, Kazuki Takegami, Itsumi Maehata, Yuki Kanazawa, Tsutomu Yamakawa *and* Shuichiro Yamamoto :** Fabrication and analysis of phantoms providing the equal-image-density for basic experiment of next-generation-type X-ray diagnosis, *European Congress of Radiology, 2016,* Wien, Mar. 2016.
192. **Itsumi Maehata, Hiroaki Hayashi, Natsumi Kimoto, Hiroki Okino, Kazuki Takegami *and* Yuki Kanazawa :** Precise determination of the scattered X-ray contamination rate using diagnostic X-ray equipment for the construction of the secondary X-ray field, *European Congress of Radiology, 2016,* Wien, Mar. 2016.
193. **Tohru Okazaki, Takuya Hashizume, Hiroaki Hayashi, Kazuki Takegami, Hiroki Okino, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa *and* Kobayashi Ikuo :** Evaluation of energy dependence of nanoDot optically stimulated luminescence (OSL) dosimeter using characteristic X-ray induced by medical X-ray equipment, *European Congress of Radiology (General&Voice of EPOS), 2016,* Wien, Mar. 2016.
194. **Yuki Kanazawa, Konishi Yuto, Usuda Takatoshi, Yuki Matsumoto, Hiroaki Hayashi, Matsuda Tsuyoshi *and* Masafumi Harada :** Noise estimation for diffusion weighted MR image, *European Congress of Radiology (EPOS),* Vienna, Mar. 2016.
195. **Hiroki Okino, Hiroaki Hayashi, Kazuki Takegami, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Compact irradiation system for evaluation of basic characteristics of the nanoDot OSL dosimeter toward direct measurement of exposure dose of patients, *European Congress of Radiology, 2016,* Wien, Mar. 2016.
196. **Hiroaki Hayashi, Natsumi Kimoto, Hiroki Okino, Itsumi Maehata, Kazuki Takegami *and* Yuki Kanazawa :** Development of leaf electroscope to understand ionization for novice practical training, *European Congress of Radiology, 2016,* Wien, Mar. 2016.
197. **Yuto Konishi, Yuki Kanazawa, Takatoshi Usuda, Yuki Matsumoto, Hiroaki Hayashi, Tsuyoshi Matsuda *and* Masafumi Harada :** Comparison with statistical analysis of signal correction in diffusion weighted MR image, *European Congress of Radiology (EPOS),* Wien, Mar. 2016.
198. **Kishida Mina, Hunakoshi Yasuhiro, Yuki Kanazawa, Matsuda Tsuyoshi *and* Masafumi Harada :** Influence of the Transit Time Correction for on Quantitative Cerebral Blood Flow (CBF) Values of Young and Elderly Subjects Using the 3D-ASL Method with Different Labeling Durations, *The 71 th Annual Scientific Congress of JSRT,* Apr. 2015.
199. **紀本 夏実, 前畑 伊採, 竹上 和希, 沖野 啓樹, 林 裕晃, 金澤 裕樹, 山河 勉, 山本 修一郎, 山崎 雅志, 岡田 雅宏 :** 低エネルギーX線スペクトルのフォトンカウンティングに基づく2次元的物質同定法の提案, *医用画像情報学会 第172回大会,* 2015年6月.
200. **沖野 啓樹, 竹上 和希, 紀本 夏実, 前畑 伊採, 林 裕晃, 金澤 裕樹, 岡崎 徹, 橋詰 拓弥, 小林 育夫 :** 100-2000keVの光子線に対する小型OSL線量計の効率的な照射体系の提案, *第22回EGS研究会,* 2015年8月.
201. **金澤 裕樹, 小西 優斗, 臼田 貴俊, 松元 友暉, 林 裕晃, 原田 雅史, 松田 豪 :** ライス分布を用いた拡散強調画像の信号補正, *第43回日本磁気共鳴医学会大会,* 2015年9月.
202. **金澤 裕樹, 臼田 貴俊, 山田 哲哉, 木戸 晶, 藤本 晃司, 高倉 京子, 小澤 聡, 小泉 幸司, 大國 万希子, 植田 直見, 富樫 かおり :** 水浸出土木材の含浸物質濃度と緩和時間変化, *第43回日本磁気共鳴医学会大会,* **Vol.35,** *No.S,* 412, 2015年9月.
203. **岸田 弥奈, 原田 雅史, 金澤 裕樹, 船越 康宏, 松田 豪 :** 3D-ASL法による脳血管流速測定値に対する通過時間補正の検討:加齢による影響について, *第46回日本磁気共鳴医学会大会,* 2015年9月.
204. **林 裕晃, 金澤 裕樹, 竹上 和希, 沖野 啓樹, 紀本 夏実, 前畑 伊採 :** 自作箔検電器を用いた初学者の物理教育-電離作用の理解に向けて-, *第43回放射線技術学会秋季学術大会,* 2015年10月.
205. **沖野 啓樹, 竹上 和希, 紀本 夏実, 前畑 伊採, Hiroaki Hayashi, Yuki Kanazawa, 岡崎 徹, 橋詰 拓弥 *and* 小林 育夫 :** Basic study for calculation of exposure dose of small type OSL dosimeter for high energy photon beam by means of simulation code(EGS5), *第43回日本放射線技術学会秋季学術大会,* Oct. 2015.
206. **竹上 和希, 沖野 啓樹, 紀本 夏実, 前畑 伊採, 林 裕晃, 金澤 裕樹 :** CRシステムを用いた診断領域の散乱X線可視化装置の開発, *第43回日本放射線技術学会秋季学術大会,* 2015年10月.
207. **竹上 和希, 沖野 啓樹, 紀本 夏実, 前畑 伊採, Hiroaki Hayashi, Yuki Kanazawa, 岡崎 徹, 橋詰 拓弥 *and* 小林 育夫 :** Measurement of energy dependence for small type OSL dosimeter by means of diagnostic X-ray equipment, *第43回日本放射線技術学会秋季学術大会,* Oct. 2015.
208. **竹上 和希, 沖野 啓樹, 紀本 夏実, 前畑 伊採, Hiroaki Hayashi, Yuki Kanazawa, 岡崎 徹, 橋詰 拓弥 *and* 小林 育夫 :** Basic research for clinical application of the OSL dosimeter in the diagnostic region -Estimation of irradiation conditions not to identify the dosimeter on the medical image-, *第43回日本放射線技術学会秋季学術大会,* Oct. 2015.
209. **前畑 伊採, Hiroaki Hayashi, 紀本 夏実, 竹上 和希, 沖野 啓樹 *and* Yuki Kanazawa :** High accuracy measurement of contamination rate of scattered X-ray in air-kerma to construct secondary standard using diagnostic X-ray apparatus, *第43回日本放射線技術学会秋季学術大会,* Oct. 2015.
210. **小西 優斗, 金澤 裕樹, 臼田 貴俊, 松元 友暉, 林 裕晃, 原田 雅史, 松田 豪 :** 拡散強調画像の統計学的信号補正の比較, *第43回日本放射線技術学会秋季学術大会,* 2015年10月.
211. **紀本 夏実, 前畑 伊採, 竹上 和希, 沖野 啓樹, Hiroaki Hayashi, Yuki Kanazawa *and* 山河 勉 :** Two dimensional material identification method based on a photon counting technique using low-energy X-ray spectrum, *第43回日本放射線技術学会秋季学術大会,* Oct. 2015.
212. **臼田 貴俊, 金澤 裕樹, 小西 優斗, 松元 友暉, 林 裕晃, 原田 雅史, 松田 豪 :** MR信号の線形評価を目的とした正規化手法の比較, *第43回日本放射線技術学会秋季学術大会,* 2015年10月.
213. **橋詰 拓弥, 岡崎 徹, 竹上 和希, 林 裕晃, 沖野 啓樹, 紀本 夏実, 前畑 伊採, 金澤 裕樹, 小林 育夫 :** OSL線量計の診断領域X線に対する基礎実験∼線量計着用における医用画像への影響評価∼, *日本放射線安全管理学会第14回学術大会,* 2015年12月.
214. **岡崎 徹, 橋詰 拓弥, 林 裕晃, 竹上 和希, 沖野 啓樹, 紀本 夏実, 前畑 伊採, 金澤 裕樹, 小林 育夫 :** nanoDot OSL線量計の診断用X線領域におけるエネルギー依存性, *日本放射線安全管理学会第14回学術大会,* 2015年12月.
215. **金澤 裕樹 :** 骨盤部MRIに見る信号特性と雑音対策─撮像技術と画像処理, --- Step up MRI 2016 明日の臨床に向けた撮像法，今日の検査に役立つ撮像テクニック ---, インナービジョン, 東京, 2016年8月.
216. **Yuki Kanazawa, Yuki Matsumoto, Hiroaki Hayashi, Tsuyoshi Matsuda, Munguu Ganbold *and* Masafumi Harada :** Simple improvement method of uniformity of MR elastography on liver, *Proceedings of the 24th Annual Meeting of ISMRM,* 2972, 2016.
217. **Tadashi Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image analysis of brain X-ray CT images by deep GMDH-type neural network, *Journal of Robotics Networking and Artificial Life,* **Vol.3,** *No.1,* 17-23, 2016.
218. **Yuto Konishi, Yuki Kanazawa, Takatoshi Usuda, Yuki Matsumoto, Hiroaki Hayashi, Tsuyoshi Matsuda, Junji Ueno *and* Masafumi Harada :** Simple noise reduction for diffusion weighted images, *Radiological Physics and Technology,* **Vol.9,** *No.2,* 221-226, 2016.
219. **Kazuki Takegami, Hiroaki Hayashi, Hiroki Okino, Natsumi Kimoto, Itsumi Maehata, Yuki Kanazawa, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Estimation of identification limit for a small-type OSL dosimeter on the medical images by measurement of X-ray spectra, *Radiological Physics and Technology,* **Vol.9,** *No.2,* 282-292, 2016.
220. **Tadashi Kondo, Sayaka Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of kidney regions by deep feedback GMDH-type neural network using principal component-regression analysis, *Artificial Life and Robotics,* **Vol.22,** *No.1,* 1-9, 2017.
221. **Yuki Kanazawa, Tetsuya Yamada, Aki Kido, Koji Fujimoto, Kyoko Takakura, Hiroaki Hayashi, Yasutaka Fushimi, Satoshi Kozawa, Koji Koizumi, Makiko Okuni, Naomi Ueda *and* Kaori Togashi :** Visualization of magnetic transfer effect in polyethylene glycol impregnated waterlogged wood., *Applied Magnetic Resonance,* **Vol.48,** *No.2,* 125-134, 2017.
222. **Hiroaki Hayashi, Yoshiki Mihara, Yuki Kanazawa, Emi Tomita, Sota Goto, Kazuki Takegami, Tohru Okazaki, Takuya Hashizume *and* Vergil Estacio Lorenzo Cruz :** Necessity of Direct Dose Measurement during Current X-ray Diagnosis, --- Our Approach Using a Small-type OSL Dosimeter ---, *Medical Research Archives,* **Vol.5,** *No.2,* 1-20, 2017.
223. **Hiroaki Hayashi, Takashi Asahara, Natsumi Kimoto, Yuki Kanazawa, Tsutomu Yamakawa, Shuichiro Yamamoto, Masashi Yamasaki *and* Masahiro Okada :** Response functions of multi-pixel-type CdTe detector, --- Toward development of precise material identification on diagnostic X-ray images by means of photon counting ---, *Progress in Biomedical Optics and Imaging - Proceedings of SPIE,* **Vol.10132,** 1013236, 2017.
224. **Natsumi Kimoto, Hiroaki Hayashi, Asahara Takashi, Yuki Kanazawa, Yamakawa Tsutomu, Yamamoto Shuichiro, Yamasaki Masashi *and* Okada Masahiro :** Development of a novel method based on a photon counting technique with the aim of precise material identification in clinical X-ray diagnosis, *Progress in Biomedical Optics and Imaging - Proceedings of SPIE,* 2017.
225. **Toshiaki Sasaki, Yuki Kanazawa, Yuki Matsumoto, Hiroaki Hayashi, Natsuki Ikemitsu, Takatoshi Usuda, Mitsuharu Miyoshi *and* Masafumi Harada :** T1 dependence of magnetization transfer effect for macromolecules, *European Congress of Radiology (EPOS),* C-0827, 2017.
226. **Natsuki Ikemitsu, Yuki Kanazawa, Yuki Matsumoto, Hiroaki Hayashi, Takatoshi Usuda, Toshiaki Sasaki, Mitsuharu Miyoshi *and* Masafumi Harada :** An improvement of signal-to-noise ratio for phase image, *European Congress of Radiology (EPOS),* C-0803, 2017.
227. **Hiroaki Hayashi, Yoshiki Mihara, Natsumi Kimoto, Takashi Asahara, Kenji Yamada, Yuki Kanazawa, Masafumi Harada, Tohru Okazaki *and* Takuya Hashizume :** Preliminary study for exposure dose measurement of people assisting during a pediatric X-ray procedure by means of a small-type OSL dosimeter, *European Congress of Radiology,* C-0034-1-C-0034-19, 2017.
228. **Yoshiki Mihara, Hiroaki Hayashi, Kenji Yamada, Yuki Kanazawa, Kousaku Higashino, Kazuta Yamashita, Ryosuke Kasai, Tohru Okazaki *and* Takuya Hashizume :** Basic study for internal dose evaluation during CT examination by means of small-type OSL dosimeter, *European Congress of Radiology,* C-0005-1-C-0005-22, 2017.
229. **Kazuki Takegami, Hiroaki Hayashi, Kenji Yamada, Yoshiki Mihara, Natsumi Kimoto, Yuki Kanazawa, Kousaku Higashino, Kazuta Yamashita, Fumio Hayashi, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Entrance surface dose measurements using a small OSL dosimeter with a computed tomography scanner having 320 rows of detectors, *Radiological Physics and Technology,* **Vol.10,** *No.1,* 49-59, 2017.
230. **Natsumi Kimoto, Hiroaki Hayashi, Takashi Asahara, Yoshiki Mihara, Yuki Kanazawa, Tsutomu Yamakawa, Shuichiro Yamamoto, Masashi Yamasaki *and* Masahiro Okada :** Precise material identification method based on a photon counting technique with correction of the beam hardening effect in X-ray spectra, *Applied Radiation and Isotopes,* **Vol.124,** 16-26, 2017.
231. **Tohru Okazaki, Hiroaki Hayashi, Kazuki Takegami, Yoshiki Mihara, Natsumi Kimoto, Yuki Kanazawa, Takuya Hashizume *and* Ikuo Kobayashi :** Small size OSL dosimeter to measure patient exposure dose in X-ray diagnosis - Evaluation of invisibility -, *14th international congress of the international radiation protection association,* cape town, May 2016.
232. **Yuki Kanazawa, Yuki Matsumoto, Hiroaki Hayashi, Tsuyoshi Matsuda, Manguu Ganbold *and* Masafumi Harada :** Simple improvement method of uniformity of MR elastography on liver, *ISMRM 24th Annual Meeting,* 2972, Singapore, May 2016.
233. **Hiroaki Hayashi, Kazuki Takegami, Kenji Yamada, Yoshiki Mihara, Natsumi Kimoto, Yuki Kanazawa, Kousaku Higashino, Yamashita Kazuta, Fumio Hayashi, Yoshihiro Fukui, Koichi Sairyo, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Convenient measurement method using small-type OSL dosimeters for evaluation of doses in CT scans: uncertainty evaluation, entrance-skin dose of phantom, and organ dose of cadaver, *Radiological Society of North America (RSNA),* Chicago, Dec. 2016.
234. **Kazuki Takegami, Hiroaki Hayashi, Natumi Kimoto, Yoshiki Mihara, Yuki Kanazawa, Kousaku Higashino, Kazuta Yamashita, Fumio Hayashi, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Universal calibration curve for a small-type OSL dosimeter to be used for direct dose measurements of direct, scattered and penetrating X-rays in the diagnostic region, *Radiological Society of North America (RSNA),* Chicago, Dec. 2016.
235. **Yuki Kanazawa, Yuki Matsumoto, Nattsuki Ikemitsu, Toshiaki Sasaki, Hiroaki Hayashi, Kazuki Takegami, Tsuyoshi Matsuda *and* Masafumi Harada :** Hybrid assessment of gadopentetic acid and bone structure with ultrashort echo time imaging, *International Conference On Medical Physics (ICMP) 2016,* Bangkok, Dec. 2016.
236. **Yuki Matsumoto, Yuki Kanazawa, Hiroaki Hayashi, Kazuki Takegami, Tsuyoshi Matsuda, Masafumi Harada *and* Hideki Otsuka :** How do you Determine the Echo Time When Calculation of Quantitative Susceptibility Mapping (QSM)?, *Radiological Society of North America (RSNA) 2016,* Chicago, Dec. 2016.
237. **Natsumi Kimoto, Hiroaki Hayashi, Takashi Asahara, Yoshiki Mihara, Yuki Kanazawa, Tsutomu Yamakawa, Shuichiro Yamamoto, Masashi Yamasaki *and* Masahiro Okada :** Basic study for material identification toward development of a next generation type X-ray diagnosis detector based on a photon counting technique, *22nd International Conference on Medical Physics ICMP,* Bangkok, Dec. 2016.
238. **Yuki Matsumoto, Yuki Kanazawa, Nattsuki Ikemitsu, Toshiaki Sasaki, Hiroaki Hayashi, Mitsuharu Miyosh, Masafumi Harada *and* Hideki Otsuka :** Proposal of an appropriate echo time-input function for quantitative susceptibility mapping., *International Conference On Medical Physics (ICMP) 2016,* Bangkok, Dec. 2016.
239. **Tohru Okazaki, Hiroaki Hayashi, Yoshiki Mihara, Natsumi Kimoto, Yuki Kanazawa, Kousaku Higashino, Kazuta Yamashita, Kazuki Takegami, Takuya Hashizume, Ikuo Kobayashi *and* Reginaldo A. Kaila Ann Mary :** Universal dose calibration of the small-type OSL dosimeter for diagnostic X-rays - direct, scattered and penetrating X-rays -, *22nd International Conference on Medical Physics ICMP,* Bangkok, Dec. 2016.
240. **Tohru Okazaki, Hiroaki Hayashi, Hiroki Okino, Yoshiki Mihara, Takashi Asahara, Natsumi Kimoto, Yuki Kanazawa, Kazuki Takegami, Takuya Hashizume, Ikuo Kobayashi *and* Reginaldo A. Kaila Ann Mary :** Calculation of energy and angular dependences of the small-type OSL dosimeter in the diagnostic and nuclear medicine regions using the Monte-Carlo simulation code, *22nd International Conference on Medical Physics ICMP,* Bangkok, Dec. 2016.
241. **Hiroaki Hayashi, Tohru Okazaki, Yoshiki Mihara, Kenji Yamada, Natsumi Kimoto, Kazuki Takegami, Yuki Kanazawa, Kousaku Higashino, Kazuta Yamashita, Takuya Hashizume, Ikuo Kobayashi *and* Mary A. Kaila Ann Reginaldo :** Uncertainty estimation of dose measured with a small-type optically stimulated luminescence dosimeter for CT scanning, --- Basic study for estimating entrance skin dose and internal organ dose ---, *22nd International Conference on Medical Physics ICMP,* Bangkok, Dec. 2016.
242. **Tadashi Kondo, Sayaka Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of lung cancer by deep logistic GMDH-type neural network using revised heuristic self-organization, *Proceedings of the Twenty-Second International Symposium on Artificial Life and Robotics(AROB 22st 2017),* Beppu, Jan. 2017.
243. **Tadashi Kondo, Sayaka Kondo, Junji Ueno *and* Shoichiro Takao :** Medical image diagnosis of liver cancer by deep multi-layered GMDH-type neural network using revised heuristic self-organization, *Proceedings of the Twenty-Second International Symposium on Artificial Life and Robotics(AROB 22st 2017),* Beppu, Jan. 2017.
244. **Hiroaki Hayashi, Takashi Asahara, Natsumi Kimoto, Yuki Kanazawa, Tsutomu Yamakawa, Shuichiro Yamamoto, Masashi Yamasaki *and* Masahiro Okada :** Response functions of multi-pixel type CdTe detector, --- toward development of precise material identification in diagnosti x-ray images by means of photon counting ---, *Progress in Biomedical Optics and Imaging - Proceedings of SPIE,* Florida, United States, Feb. 2017.
245. **Natsumi Kimoto, Hiroaki Hayashi, Takashi Asahara, Yuki Kanazawa, Tsutomu Yamakawa, Shuichiro Yamamoto, Masashi Yamasaki *and* Masahiro Okada :** Development of a novel method based on a photon counting technique with the aim of precise material identification in clinical X-ray diagnosis, *Progress in Biomedical Optics and Imaging - Proceedings of SPIE,* **Vol.10132,** Florida, United States, Feb. 2017.
246. **Natsuki Ikemitsu, Yuki Kanazawa, Yuki Matsumoto, Hiroaki Hayashi, Takatoshi Usuda, Toshiaki Sasaki, Mitsuharu Miyoshi *and* Masafumi Harada :** An improvement of signal-to-noise ratio for phase image, *European Congress of Radiology,* Wien, Mar. 2017.
247. **Toshiaki Sasaki, Yuki Kanazawa, Yuki Matsumoto, Hiroaki Hayashi, Natsuki Ikemitsu, Takatoshi Usuda, Mitsuharu Miyoshi *and* Masafumi Harada :** T1 dependence of magnetization transfer effect for macromolecules, *European Congress of Radiology,* Wien, Mar. 2017.
248. **Hiroaki Hayashi, Yoshiki Mihara, Natsumi Kimoto, Takashi Asahara, Kenji Yamada, Yuki Kanazawa, Masafumi Harada, Tohru Okazaki *and* Takuya Hashizume :** Preliminary study for exposure dose measurement of people assisting during a pediatric X-ray procedure by means of a small-type OSL dosimeter, *European Congress of Radiology,* Wien, Mar. 2017.
249. **Yuki Matsumoto, Yuki Kanazawa, Toshiaki Sasaki, Natsuki Ikemitsu, Hiroaki Hayashi, Mitsuharu Miyoshi, Masafumi Harada *and* Hideki Otsuka :** Phase Correction for Quantitative Susceptibility Mapping (QSM) using T2\* Mapping, *The 5th International Congress on Magnetic Resonance Imaging,* **Vol.2017,** *No.FA,* 111, Seoul, Mar. 2017.
250. **Yoshiki Mihara, Hiroaki Hayashi, Kenji Yamada, Yuki Kanazawa, Kousaku Higashino, Kazuta Yamashita, Ryosuke Kasai, Tohru Okazaki *and* Takuya Hashizume :** Basic study for internal dose evaluation during CT examination by means of small-type OSL dosimeter, *European Congress of Radiology,* Vienna, Mar. 2017.
251. **Cheng Wei hsin, 林 裕晃, Kazuki Takegami, Yoshiki Mihara, Natsumi Kimoto, 金澤 裕樹, Okazaki Tohru, Hashizume Takuya, Kobayashi Ikuo :** 小型光刺激發光劑量計測量診斷範圍之輻射劑量的可能性評估, *The 50th Annual Meeting of TWSRT and the International Conference of Medical Imaging,* Taiwan, 2017年3月.
252. **Kazuki Takegami, Hiroki Okino, Natsumi Kimoto, Hiroaki Hayashi, Yuki Kanazawa, Tohru Okazaki *and* Ikuo Kobayashi :** Practical calibration curve for entrance-skin dose measurement using small-type OSL dosimeter, *第72回日本放射線技術学会学術大会,* Apr. 2016.
253. **Natsumi Kimoto, Hiroki Okino, Kazuki Takegami, Hiroaki Hayashi, Yuki Kanazawa, Tsutomu Yamakawa *and* Yamamoto Shuichiro :** Fabrication of the equal-image-density materials for basic experiment of next-generation-type X-ray diagnosis system, *第72回日本放射線技術学会学術大会,* Apr. 2016.
254. **紀本 夏実, 沖野 啓樹, 竹上 和希, 林 裕晃, 金澤 裕樹 :** 初学者の電離作用の理解に向けた箔検電器の開発, *第72回日本放射線技術学会学術大会,* 2016年4月.
255. **沖野 啓樹, 竹上 和希, 紀本 夏実, 林 裕晃, 金澤 裕樹, 岡崎 徹, 橋詰 拓弥 :** EGS5を用いた核医学検査領域における小型OSL線量計の検出効率の評価, *第72回日本放射線技術学会学術大会,* 2016年4月.
256. **Kazuki Takegami, Hiroki Okino, Natsumi Kimoto, Hiroaki Hayashi, Yuki Kanazawa, Tohru Okazaki *and* Takuya Hashizume :** Phantom Study for Entrance-Skin Doses Measurement in the Diagnostic X-ray Region using a Small-type OSL dosimeter Comparison of the doses measured with other detectors-, *第72回日本放射線技術学会学術大会,* Apr. 2016.
257. **沖野 啓樹, 竹上 和希, 紀本 夏実, 林 裕晃, 金澤 裕樹, 岡崎 徹, 橋詰 拓弥 :** 小型OSL線量計を用いた137Csと90Srの分離測定に関する基礎的研究, *第72回日本放射線技術学会学術大会,* 2016年4月.
258. **Natsumi Kimoto, Hiroki Okino, Kazuki Takegami, Hiroaki Hayashi, Yuki Kanazawa, Tsutomu Yamakawa *and* Shuichiro Yamamoto :** Proposal of a New Analytic Method for the Determination of Both Atomic Number and Sample Thickness Based on a Photon Counting Technique Using Diagnostic X-rays, *第72回日本放射線技術学会学術大会\_Next Generation Session(学生選抜セッション),* Apr. 2016.
259. **Usuda Takatoshi, Yuki Kanazawa, Yuki Matsumoto, Hiroaki Hayashi, Masafumi Harada, Hideki Otsuka *and* Matsuda Tsuyoshi :** Normalization of time-dependent signal change of MRI, *JSRT,* Apr. 2016.
260. **Yuki Matsumoto, Yuki Kanazawa, Usuda Takatoshi, Hiroaki Hayashi, Matsuda Tsuyoshi, Masafumi Harada *and* Hideki Otsuka :** Dependence on echo time for quantitative susceptibility mapping (QSM) MRI., *JSRT,* Apr. 2016.
261. **小畠 巧也, 金澤 裕樹, 小川 和郎, 大塚 秀樹 :** 三次元高速スピンエコー法を用いたMR angiographyにおける血液信号シミュレーション, *第72回日本放射線技術学会総会学術大会,* 2016年4月.
262. **三原 由樹, 紀本 夏実, 沖野 啓樹, 林 裕晃, 金澤 裕樹, 東野 恒作, 竹上 和希, 岡崎 徹, 橋詰 拓弥 :** 診断領域X線による介助者被ばくの実測に向けた小型OSL線量計の読取装置の改良, *医用画像情報学会平成28年度年次(第175回)大会,* 2016年6月.
263. **Yuki Matsumoto, Yuki Kanazawa, Nattsuki Ikemitsu, Toshiaki Sasaki, Hiroaki Hayashi, Mitsuharu Miyosh, Masafumi Harada *and* Hideki Otsuka :** Noise estimation of phantom phase image in ultra-short echo time imaging, *JSMRM2016,* Sep. 2016.
264. **Yoshiki Mihara, Kenji Yamada, Natsumi Kimoto, Hiroaki Hayashi, Yuki Kanazawa, Kousaku Higashino, Tohru Okazaki *and* Takuya Hashizume :** Basic study for internal dose evaluation of CT examination by means of small-type OSL dosimeter, *第44回日本放射線技術学会秋季学術大会,* Oct. 2016.
265. **三原 由樹, 紀本 夏実, 林 裕晃, 金澤 裕樹, 東野 恒作, 竹上 和希, 岡崎 徹, 橋詰 拓弥 :** 診断用X線に対する小型OSL線量計の測定下限値の評価, *第44回日本放射線技術学会秋季学術大会,* 2016年10月.
266. **沖野 啓樹, 浅原 孝, 三原 由樹, 林 裕晃, 金澤 裕樹, 岡崎 徹, 橋詰 拓弥, 小林 育夫 :** シミュレーションコードEGS5を用いた137Csと60Coのγ線に対する小型OSL線量計の角度依存性の評価, *第44回日本放射線技術学会秋季学術大会,* 2016年10月.
267. **Kazuki Takegami, Yoshiki Mihara, Natsumi Kimoto, Hiroaki Hayashi, Yuki Kanazawa, Kousaku Higashino, Kazuta Yamashita, Tohru Okazaki *and* Takuya Hashizume :** Study to expand the dose calibration curve of small-type OSL dosimeter toward scattered and penetrating X-rays for management of radiation exposure in the diagnostic region, *第44回日本放射線技術学会秋季学術大会,* Oct. 2016.
268. **竹上 和希, 三原 由樹, 紀本 夏実, 山田 健二, 林 裕晃, 金澤 裕樹, 東野 恒作, 岡崎 徹, 橋詰 拓弥 :** 小型OSL線量計を用いたCTスキャンにおける入射皮膚線量実測の有用性, *第44回日本放射線技術学会秋季学術大会,* 2016年10月.
269. **池光 捺貴, 金澤 裕樹, 松元 友暉, 臼田 貴俊, 林 裕晃, 三好 光晴, 原田 雅史 :** T2\* phase cycle SNR, *第44回日本放射線技術学会秋季学術大会,* 2016年10月.
270. **佐々木 俊晃, 金澤 裕樹, 松元 友暉, 池光 捺貴, 臼田 貴俊, 林 裕晃, 三好 光晴, 原田 雅史 :** MTパルスを付加したT1値の算出, *第44回日本放射線技術学会秋季学術大会,* 2016年10月.
271. **松元 友暉, 金澤 裕樹, 池光 捺貴, 佐々木 俊晃, 臼田 貴俊, 林 裕晃, 三好 光晴, 原田 雅史, 大塚 秀樹 :** How to make a phantom for quantitative susceptibility mapping., *第44回日本放射線技術学会秋季学術大会,* 2016年10月.
272. **林 裕晃, 三原 由樹, 淺原 孝, 紀本 夏実, 金澤 裕樹, 山田 健二, 笠井 亮佑, 岡崎 徹, 橋詰 拓弥, 小林 育夫 :** 小型OSL線量計を用いた小児X線撮影における介助者被ばく実測に向けた現状と課題, *医用画像情報学会(MII)平成28年度秋季(第176回)大会,* 2016年10月.
273. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Toshiaki Sasaki, Natsuki Ikemitsu *and* Michael Carl :** Dura Mater imaging with UTE T2\* Mapping, *Proceedings of the 25th Annual Meeting of ISMRM,* 4682, 2017.
274. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Toshiaki Sasaki *and* Natsuki Ikemitsu :** Baseline of Chemical Exchange Saturation Transfer Imaging for Brain, *Proceedings of the 25th Annual Meeting of ISMRM,* 4646, 2017.
275. **Mitsuharu Miyoshi, Masafumi Harada, Yuki Kanazawa *and* Hiroyuki Kabasawa :** CEST and Binding Water MT Separation in Brain Tumor by Multi Pool Model CEST Peak Extraction Method, *Proceedings of the 25th Annual Meeting of ISMRM,* 4242, 2017.
276. **Yuki Kanazawa, Tetsuya Yamada, Aki Kido, Koji Fujimoto, Kyoko Takakura, Hiroaki Hayashi, Yasutaka Fushimi, Satoshi Kozawa, Koji Koizumi, Makiko Okuni, Naomi Ueda *and* Kaori Togashi :** Internal evaluation of impregnation treatment of waterlogged wood; relation between concentration of internal materials and relaxation time using magnetic resonance imaging, *Magnetic Resonance Imaging,* **Vol.38,** 196-201, 2017.
277. **Akihiro Haga, Takahashi Wataru, Aoki Shuri, Nawa Kanabu *and* Yamashita Hideomi :** Classification of early stage non-small cell lung cancers on computed tomographic images into histological types using radiomic features: interobserver delineation variability analysis, *Radiological Physics and Technology,* **Vol.11,** *No.1,* 1-9, 2017.
278. **Takashi Asahara, Hiroaki Hayashi, Emi Tomita, Sota Goto, Natsumi Kimoto, Kenji Yamada, Sumi Yokoyama, Yuki Kanazawa *and* Tohru Okazaki :** Phantom study using an OSL dosimeter with the aim of accurate measurement of eye lens dose exposure of operator during transfemoral cardiac catheterization using fluoroscopic examination, *European Congress of Radiology,* **Vol.EPOS,** *No.C-0044,* 2018.
279. **Natsuki Ikemitsu, Yuki Kanazawa, Yuki Matsumoto, Hiroaki Hayashi, Toshiaki Sasaki, Mitsuharu Miyoshi *and* Masafumi Harada :** Development of correction for signal-to-noise ratio using a T2\* with improved Phase method, *Journal of Computer Assisted Tomography,* **Vol.42,** *No.1,* 117-123, 2018.
280. **Yuki Kanazawa, Yasutaka Fushimi, Naotaka Sakashita, Tomohisa Okada, Yoshiki Arakawa *and* Mitsue Miyazaki :** B1 Power Optimization for Chemical Exchange Saturation Transfer Imaging: A Phantom Study Using Egg White for Amide Proton Transfer Imaging Applications in the Human Brain, *Magnetic Resonance in Medical Sciences,* **Vol.17,** *No.1,* 86-94, 2018.
281. **Aoki Shuri, Yamashita Hideomi, Akihiro Haga, Nawa Kanabu, Image Toshikazu, Takahashi Wataru, Abe Osamu *and* Nakagawa Keiichi :** Flattening filter-free technique in volumetric modulated arc therapy for lung stereotactic body radiotherapy: A clinical comparison with the flattening filter technique, *Oncology Letters,* **Vol.15,** *No.3,* 3928-3936, 2018.
282. **Shuri Aoki, Hideomi Yamashita, Akihiro Haga, Takeshi Ota, Wataru Takahashi, Sho Ozaki, Kanabu Nawa, Toshikazu Imae, Osamu Abe *and* Keiichi Nakagawa :** Stereotactic body radiotherapy for centrallylocated lung tumors with 56 Gy in seven fractions: A retrospective study, *Oncology Letters,* **Vol.16,** *No.4,* 4498-4506, 2018.
283. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Toshiaki Sasaki *and* Natsuki Ikemitsu :** Baseline of Chemical Exchange Saturation Transfer Imaging for Brain, *ISMRM 25th Annual Meeting,* Honolulu, Apr. 2017.
284. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Toshiaki Sasaki, Natsuki Ikemitsu *and* Michael Carl :** Dura Mater imaging with UTE T2\* Mapping, *ISMRM 25th Annual Meeting,* Honolulu, Apr. 2017.
285. **Mitsuharu Miyoshi, Masafumi Harada, Yuki Kanazawa *and* Hiroyuki Kabasawa :** CEST and Binding Water MT Separation in Brain Tumor by Multi Pool Model CEST Peak Extraction Method, *ISMRM 25th Annual Meeting,* Honolulu, Apr. 2017.
286. **Takashi ASAHARA, Hiroaki Hayashi, Emi TOMITA, Kanako SAKURAGAWA, Hiroshi SAEGUSA, Yasufumi SHITAKUBO, Hitoshi Ikushima, Yuki Kanazawa, Yoshiki MIHARA, Yoshinori MIYAHARA, Tohru OKAZAKI, Takuya HASHIZUME *and* Vergil CRUZ :** Development of Novel Rectum Dosimeter using OSL sheet with the aim of Direct Dose Measurement of Organ Dose during Brachytherapy, *International Symposium On Radiation Safety and Detection Technology (ISORD-9),* Nagoya, Jul. 2017.
287. **Tohru OKAZAKI, Hiroaki Hayashi, Yoshiki MIHARA, Takashi ASAHARA, Natsumi KIMOTO, Yuki Kanazawa, Kousaku Higashino, Kazuta YAMASHITA, Sumi YOKOYAMA, Kazuki TAKEGAMI, Takuya HASHIZUME *and* Vergil LE CRUZ :** Applicability of Practical Calibration of a Small-type OSL Dosimeter For Measuring the Exposure Doses Effected by Scattered and Penetrating X-rays, *International Symposium On Radiation Safety and Detection Technology (ISORD-9),* Nagoya, Jul. 2017.
288. **Emi TOMITA, Hiroaki Hayashi, Takashi ASAHARA, Kanako SAKURAGAWA, Yasufumi SHITAKUBO, Hiroshi SAEGUSA, Hitoshi Ikushima, Yuki Kanazawa, Sota GOTO, Tohru OKAZAKI, Takuya HASHIZUME *and* Vergil LE CRUZ :** Direct Radiation Dose Measurement of Rectum during High-Dose-Rate 192Ir Brachytherapy for Cervical Cancer Treatment, *International Symposium On Radiation Safety and Detection Technology (ISORD-9),* Nagoya, Jul. 2017.
289. **Vergil E. Lorenzo Cruz, Tohru OKAZAKI, Hiroaki Hayashi, Yoshiki MIHARA, Takashi ASAHARA, Natsumi KIMOTO, Hiroki OKINO, Yuki Kanazawa, Takuya HASHIZUME *and* Ikuo KOBAYASHI :** Energy and Angular Dependence of the small type OSL Dosimeter in Diagnostic and Nuclear Medicine Regions using Monte Carlo Simulation, *International Symposium On Radiation Safety and Detection Technology (ISORD-9),* Nagoya, Jul. 2017.
290. **Hiroaki Hayashi, Emi TOMITA, Sota GOTO, Natsumi KIMOTO, Keiji TADA, Ryosuke Kasai, Yuki Kanazawa, Yoshiki MIHARA, Takashi ASAHARA, Tohru OKAZAKI, Takuya HASHIZUME *and* Vergil LE CRUZ :** Direct Dose Measurement of Patients during Pediatric Computed Tomography Examination, *International Symposium On Radiation Safety and Detection Technology (ISORD-9),* Nagoya, Jul. 2017.
291. **Natsumi Kimoto, Hiroaki Hayashi, Takashi Asahara, Emi Tomita, Sota Goto, Yoshiki Mihara, Yuki Kanazawa, Tsutomu Yamakawa, Shuichiro Yamamoto, Masashi Yamasaki, Masahiro Okada *and* Daisuke Hashimoto :** Novel material identification method using three energy bins of a photon counting detector taking into consideration Z-dependent beam hardening effect correction with the aim of producing an X-ray image with information of effective atomic number, *2017 IEEE Nuclear Science Symposium & Medical Imaging Conference,* Atlanta, Oct. 2017.
292. **Emi TOMITA, Hiroaki Hayashi, Sota GOTO, Keiji TADA, Yuki Kanazawa, Tohru OKAZAKI *and* Takuya HASHIZUME :** Direct measurement of exposure doses using a small-type OSL dosimeters during pediatric CT examination, *The 3rd International Conference on Radiological Science and Technology,* Hiroshima, Oct. 2017.
293. **Yoshiki MIHARA, Hiroaki Hayashi, Takashi ASAHARA, Sota GOTO, Natsumi KIMOTO, Yuki Kanazawa *and* Tohru OKAZAKI :** Precise calibration factor of small-type OSL dosimeter with the aim toward analysis of exposure doses caused by scattering X-ray in the diagnostic region, *The 3rd International Conference on Radiological Science and Technology,* Hiroshima, Oct. 2017.
294. **Cheng Wei Hsin, Tohru OKAZAKI, Takuya HASHIZUME, Hiroaki Hayashi, Emi TOMITA, Keiji TADA *and* Yuki Kanazawa :** Evaluating the Influence of the Small-type Optically Stimulated Luminescence (OSL) Dosimeter on CT Images for Radiation Dose Measurement of Patient, *The 3rd International Conference on Radiological Science and Technology,* Hiroshima, Oct. 2017.
295. **Hiroaki Hayashi, Emi Tomita, Takashi Asahara, Yasufumi Shitakubo, Kanako Sakuragawa, Hiroshi Saegusa, Hitoshi Ikushima, Yuki Kanazawa, Sota Goto, Natsumi Kimoto, Yoshiki Mihara, Yoshinori Miyahara, Tohru Okazaki, Takuya Hashizume *and* Vergil Estacio Lorenzo Cruz :** Development of a new in-vivo measurement system by means of OSL dosimeters during brachytherapy for cervical cancer, *RSNA2017 (Radiological Society of North America),* Chicago, Nov. 2017.
296. **Natsumi Kimoto, Hiroaki Hayashi, Takashi Asahara, Emi Tomita, Sota Goto, Yoshiki Mihara, Yuki Kanazawa, Tsutomu Yamakawa, Shuichiro Yamamoto, Masashi Yamasaki, Masahiro Okada *and* Daisuke Hashimoto :** Potential of photon counting technique for next-generation type X-ray diagnostic system: To provide new medical image concerning effective atomic numbers using plain X-ray, *RSNA2017 (Radiological Society of North America),* Chicago, Nov. 2017.
297. **Natsuki Ikemitsu, Yuki Kanazawa, Hiroaki Hayashi, Yoshiki Mihara, Emi Tomita, Yuki Matsumoto, Tohru Okazaki, Takuya Hashizume *and* Masafumi Harada :** Can OSL dosimetry measurement be applied to MR imaging during MR-LINAC treatment?, *RSNA2017 (Radiological Society of North America),* Chicago, Nov. 2017.
298. **Yuki Matsumoto, Yuki Kanazawa, Toshiaki Sasaki, Natsuki Ikemitsu, Hiroaki Hayashi, Mitsuharu Miyoshi, Masafumi Harada *and* Hideki Otsuka :** Which is More Important for Quantitative Susceptibility Mapping? SNR of Phase vs Spin Dephasing., *Radiological Society of North America (RSNA),* Chicago, Nov. 2017.
299. **Tohru OKAZAKI, Hiroaki Hayashi, Emi TOMITA, Sota GOTO, Keiji TADA, Yoshiki MIHARA, Natsumi KIMOTO, Ryosuke Kasai, Yuki Kanazawa, Vergil LE CRUZ, Takuya HASHIZUME, Cheng Wei Hsin *and* Ikuo KOBAYASHI :** Practical phantom study using small-type OSL dosimeter toward direct dose measurement during pediatric CT examination, *AOCMP-AMPICON 2017,* Jaipur, Nov. 2017.
300. **Kazuki Takegami, Hiroaki Hayashi, Natumi Kimoto, Yoshiki Mihara, Yuki Kanazawa, Kousaku Higashino, Kazuta Yamashita, Fumio Hayashi, Tohru Okazaki, Takuya Hashizume *and* Ikuo Kobayashi :** Universal calibration curve for a small-type OSL dosimeter to be used for direct dose measurements of direct, scattered and penetrating X-rays in the diagnostic region, *Radiological Society of North America (RSNA),* Chicago, Dec. 2017.
301. **Akihiro Haga :** Introduction to Medical Physics in Japan, *Workshop in Medical Physics,* Beijing, Dec. 2017.
302. **Tadashi Asahara, Hiroaki Hayashi, Emi Tomita, Sota Goto, Natsumi Kimoto, Kenji Yamada, Sumi Yokoyama, Yuki Kanazawa *and* Toru Okazaki :** Phantom study toward accurate measurement of eye lens dose exposure of operator during transfemoral cardiac catheterization using fluoroscopy examination with an OSL dosimeter, *European Congress of Radiology,* Wien, Mar. 2018.
303. **Hsin Wei Cheng, Hiroaki Hayashi, Tomita Emi, Tada Keiji, Mihara Yoshiki, Kimoto Natsumi, Kasai Ryosuke, Yuki Kanazawa, Cruz LE Vergil, Hashizume Takuya *and* Kobayashi Ikuo :** (CT) (OSL) (nanoDot), *51st Annual meeting of Taiwan Society of Radiation Technology,* Taiwan, Mar. 2018.
304. **Tohru Okazaki, Hiroaki Hayashi, Takashi Asahara, Sota Goto, Yoshiki Mihara, Emi Tomita, Yuki Kanazawa, Natsumi Kimoto, Takuya Hashizum, Vergil LE Cruz *and* Cheng Wei Hsin :** Eye lens dose evaluation of medical staff during the X-ray fluoroscopic procedure using Optically Stimulated Luminescence dosimeter ~ Influence of incident X-ray energy fluctuation on response of the dosimeter ~, *51st Annual Meeting of TWSRT and the 25th East Asia Conference of Radiological Technologists,* Taiwan, Mar. 2018.
305. **Akihiro Haga :** Imaging Database and Radiomics, *International workshop on biological effects of radiation,* Mar. 2018.
306. **Yuki Matsumoto, Yuki Kanazawa, Toshiaki Sasaki, Hiroaki Hayashi, Natsuki Ikemitsu, Masafumi Harada *and* Hideki Otsuka :** Evaluation of Mechanical Waves of MR Elastography, *JSRT,* Apr. 2017.
307. **Yoshiki Mihara, Hiroaki Hayashi, Yuki Kanazawa, Kenji Yamada, Kazuki Takegami, Tohru Okazaki *and* Takuya Hashizume :** Visualization of entrance surface dose during CT examination using small-type OSL dosimeter, *第73回日本放射線技術学会総会学術大会,* Apr. 2017.
308. **Yoshiki Mihara, Kenji Yamada, Michihiro Yokoishi, Hiroaki Hayashi, Yuki Kanazawa, Tohru Okazaki *and* Takuya Hashizume :** First observation of dose exposure to assistants during pediatric X-ray procedure by means of a small-type OSL dosimeter, *第73回日本放射線技術学会総会学術大会,* Apr. 2017.
309. **Takashi Asahara, Natsumi Kimoto, Hiroaki Hayashi, Yuki Kanazawa, Akitoshi Katsumata, Wataru Nishiyama, Tsutomu Yamakawa, Shuichiro Yamamoto, Masashi Yamasaki *and* Masahiro Okada :** Simulation study for effective reduction procedure of scattered Xrays toward high accuracy material identification based on photon counting technique, *第113回日本医学物理学会学術大会,* Apr. 2017.
310. **松元 友暉, 金澤 裕樹, 原田 雅史, 林 裕晃, 馬場 幸太郎, 幸坂 育歩, 三好 光晴, 大塚 秀樹 :** 定量的磁化率マッピング(QSM)のためのオフセット周波数補正法の提案, *Society of Advanced Medical Imaging (SAMI) 2017,* 2017年7月.
311. **Yuki Matsumoto, Yuki Kanazawa, Masafumi Harada, Hiroaki Hayashi, Kotaro Baba, Mitsuharu Miyoshi *and* Hideki Otsuka :** Off-set frequency correction in brain for quantitative susceptibility mapping, *JSMRM2017,* Sep. 2017.
312. **馬場 幸太郎, 金澤 裕樹, 幸坂 育歩, 松元 友暉, 林 裕晃, 原田 雅史 :** lipid-rich-core プラークの物性に着目したマルチコンポーネント解析MRI, *第45回日本放射線技術学会秋季学術大会,* 2017年10月.
313. **幸坂 育歩, 金澤 裕樹, 馬場 幸太郎, 松元 友暉, 林 裕晃, 原田 雅史 :** MR Elastographyの振動波定量解析, *第45回日本放射線技術学会秋季学術大会,* 2017年10月.
314. **後藤 聡汰, 林 裕晃, 三原 由樹, 淺原 孝, 冨田 恵美, 金澤 裕樹, 岡崎 徹, 橋詰 拓弥, Vergil LE Cruz :** 小型OSL線量計を用いた超精密測定に向けた固有効率の決定, *第45回日本放射線技術学会秋季学術大会,* 2017年10月.
315. **松元 友暉, 原田 雅史, 金澤 裕樹, 大友 真姫, ARIUNBOLD GANKHUYAG, DOLGORSUREN ENKH-AMGALAN, 大塚 秀樹 :** Virtual-magnetic resonance elastography (MRE) using intravoxel incoherent motion (IVIM) stretched model, *第129回日本医学放射線学会中国・四国地方会,* 2017年12月.
316. **芳賀 昭弘 :** ログファイルによる 体内線量分布の推定, *第31回高精度外部放射線治療学会シンポジウム,* 2018年2月.
317. **富永 正英, 佐々木 幹治, 安友 基勝, 山田 健二, 兒島 雄志, 芳賀 昭弘, 生島 仁史, 角谷 倫之 :** Digital Phantomを用いたImage Registrationソフトウェアの性能評価, *第31回高精度放射線外部照射部会学術大会,* 2018年2月.
318. **芳賀 昭弘 :** 治療装置の違いにおける 線量分布及び治療成績の比較, *ヘリカル照射型直線加速機における放射線治療計画セミナー(中国・四国高度がんプロ養成基盤プログラム),* 2018年2月.
319. **芳賀 昭弘 :** ヘリカル照射型直線加速機の 課題と今後の展望について, *ヘリカル照射型直線加速機における放射線治療計画セミナー(中国・四国高度がんプロ養成基盤プログラム),* 2018年2月.
320. **生島 仁史, 芳賀 昭弘 :** やさしくわかる放射線治療学(担当:編集，放射線治療物理), 秀潤社, 2018年10月.
321. **Kida Satoshi, Nakamoto Takahiro, Nakano Masahiro, Nawa Kanabu, Akihiro Haga, Kotoku Junichi, Yamashita Hideomi *and* Nakagawa Keiichi :** Cone Beam Computed Tomography Image Quality Improvement Using a Deep Convolutional Neural Network, *Curēus,* **Vol.10,** *No.4,* e2548, 2018.
322. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi, Ikuho Kosaka, Kotaro Baba, Hiroaki Hayashi *and* Yuki Matsumoto :** Nuclear Overhauser enhancement effect of low B1 power CEST RF in human brain at 3.0 T, *Proceedings of the 26th Annual Meeting of ISMRM, No.5117,* 2018.
323. **Yuki Kanazawa, Toshiaki Sasaki, Hiroaki Hayashi, Kotaro Baba, Ikuho Kosaka, Yuki Matsumoto, Mitsuharu Miyoshi *and* Masafumi Harada :** T1 dependency of magnetization transfer effect in human brain, *Proceedings of the 26th Annual Meeting of ISMRM, No.3179,* 2018.
324. **Yuki Kanazawa, Kotaro Baba, Tosiaki Miyati, Masafumi Harada, Hiroaki Hayashi, Ikuho Kosaka, Mitsuharu Miyoshi, Michael Carl *and* Yuki Matsumoto :** Does the amount of signal change depend on calcium concentration in lipid-rich core plaque?, *Proceedings of the 26th Annual Meeting of ISMRM, No.3473,* 2018.
325. **Natsumi Kimoto, Hiroaki Hayashi, Takashi Asahara, Emi Tomita, Sota Goto, Yuki Kanazawa, Shuichiro Yamamoto, Masahiro Okada *and* Masaki Yamasaki :** Reproduction of response functions of a multi-pixel-type energy-resolved photon counting detector while taking into consideration interaction of X-rays, charge sharing and energy resolution, *Proceedings of IEEE(MIC),* 4, 2018.
326. **Ritu Bhusal Chhatkuli, Kazuyuki Demachi, Mitsuru Uesaka, Keiichi Nakagawa *and* Akihiro Haga :** Development of a markerless tumor-tracking algorithm using prior four-dimensional cone-beam computed tomography, *Journal of Radiation Research,* **Vol.59,** *No.6,* 1-7, 2018.
327. **Akihiro Haga, Takahashi Wataru, Aoki Shuri, Nawa Kanabu *and* Yamashita Hideomi :** Standardization of imaging features for radiomics analysis, *The Journal of Medical Investigation : JMI,* **Vol.66,** 35-37, 2018.
328. **Takashi Asahara, Hiroaki Hayashi, Sota Goto, Emi Tomita, Natsumi Kimoto, Yoshiki Mihara, Takumi Asakawa, Yuki Kanazawa, Akitoshi Katsumata, Kosaku Higashino, Kazuta Yamashita, Tohru Okazaki *and* Takuya Hashizume :** Exposure dose measurement during diagnostic pediatric X-ray examination using an optically stimulated luminescence (OSL) dosimeter based on precise dose calibration taking into consideration variation of X-ray spectra, *Radiation Measurements,* **Vol.119,** 209-219, 2018.
329. **Natsumi Kimoto, Hiroaki Hayashi, Takumi Asakawa, takashi Asahara, Maeda Tatsuya, Yuki Kanazawa, Akitoshi Katsumata, Shuichiro Yamamoto *and* Okada Masahiro :** Feasibility study of photon counting detector for producing effective atomic number image, *Proceedings of IEEE(MIC),* 2019.
330. **Enkh-Amgalan Dolgorsuren, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Maki Otomo, Yuki Matsumoto, Yoshifumi Mizobuchi *and* Kohhei Nakajima :** Correlation and Characteristics of Intravoxel Incoherent Motion and Arterial Spin Labeling Techniques Versus Multiple Parameters Obtained on Dynamic Susceptibility Contrast Perfusion MRI for Brain Tumors., *The Journal of Medical Investigation : JMI,* **Vol.66,** *No.3.4,* 308-313, 2019.
331. **Emi Tomita, Hiroaki Hayashi, Takashi Asahara, Kanako Sakuragawa, Yasufumi Shitakubo, Hiroshi Saegusa, Hitoshi Ikushima, Yuki Kanazawa, Sota Goto, Tohru Okazaki, Takuya Hashizume *and* Vergil LE Cruz :** Direct Radiation Dose Measurement of Rectum during High-Dose-Rate 192Ir Brachytherapy for Cervical Cancer Treatment, *Progress in Nuclear Science and Technology,* **Vol.6,** 39-42, 2019.
332. **Takashi Asahara, Hiroaki Hayashi, Emi Tomita, Kanako Sakuragawa, Hiroshi Saegusa, Yasufumi Shitakubo, Hitoshi Ikushima, Yuki Kanazawa, Yoshiki Mihara, Yoshinori Miyahara, Tohru Okazaki, Takuya Hashizume *and* Vergil LE Cruz :** Development of Novel Rectum Dosimeter using OSL sheet with the aim of Direct Dose Measurement of Organ Dose during Brachytherapy, *Progress in Nuclear Science and Technology,* **Vol.6,** 30-33, 2019.
333. **Vergil LE Cruz, Tohru Okazaki, Hiroaki Hayashi, Yoshiki Mihara, Takashi Asahara, Natsumi Kimoto, Hiroki Okino, Yuki Kanazawa, Takuya Hashizume *and* Ikuo Kobayashi :** Energy and Angular Dependence of the Small-Type OSL Dosimeter in Nuclear Medicine Regions using Monte Carlo Simulation, *Progress in Nuclear Science and Technology,* **Vol.6,** 34-38, 2019.
334. **Hiroaki Hayashi, Emi Tomita, Sota Goto, Natsumi Kimoto, Keiji Tada, Ryosuke Kasai, Yuki Kanazawa, Yoshiki Mihara, Takashi Asahara, Tohru Okazaki, Takuya Hashizume *and* Vergil LE Cruz :** Direct Dose Measurement of Patients during Pediatric Computed Tomography Examination, *Progress in Nuclear Science and Technology,* **Vol.6,** 18-21, 2019.
335. **Tohru Okazaki, Hiroaki Hayashi, Yoshiki Mihara, Takashi Asahara, Natsumi Kimoto, Yuki Kanazawa, Kosaku Higashino, Kazuta Yamashita, Sumi Yokoyama, Kazuki Takegami, Takuya Hashizume, Vergil LE Cruz *and* Ikuo Kobayashi :** Applicability of a Practical Calibration for the Small-type OSL Dosimeter for Measuring Doses from Direct X-rays and Penetrating X-rays Affected by Scattered Radiation, *Progress in Nuclear Science and Technology,* **Vol.6,** 22-25, 2019.
336. **Yoshiki Mihara, Hiroaki Hayashi, Takumi Uehara, Emi Tomita, Sota Goto, Keiji Tada, Yuki Kanazawa, Tohru Okazaki *and* Takuya Hashizume :** Where do the scattering X-rays to eye lens exposure come from during neonatal cardiac CT examination?, *European Congress of Radiology (EPOS), No.C-1825,* 26, 2019.
337. **Tohru Okazaki, Hiroaki Hayashi, Sota Goto, Takashi Asahara, Emi Tomita, Yuki Kanazawa, Takuya Hashizume, V Cruz *and* H W Cheng :** Determining the difference of calibration factors in diagnostic X-rays and mono-energetic X-rays of the small type OSL dosimeter for a more precise dose evaluation in diagnostic X-ray examinations, *European Congress of Radiology (EPOS), No.C-0212,* 14, 2019.
338. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo *and* Mitsuharu Miyoshi :** Chemical exchange saturation transfer imaging for neurodegenerative diseases, *Proceedings of the 26th Annual Meeting of ISMRM, No.2096,* 2018.
339. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo, Ariunbold Gankhuyag, Amgalan Enkh Dolgorsuren, Takamatsu Shin *and* Yamashita Yuichi :** Why are shear stiffness and estimated intravoxel incoherent motion map correlated in the liver?, *European Congress of Radiology (EPOS),* C-1789, 2019.
340. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo, Amgalan Enkh Dolgorsuren, Ariumbold Gankhuyag, Takamatsu Shin *and* Yamashita Yuichi :** Which number of b-value is better for accurate calculation of virtual MR elastography?, *European Congress of Radiology (EPOS),* C-1761, 2019.
341. **芳賀 昭弘 :** 四次元コーンビームCTによる臓器運動の可視化とその応用, *日本放射線技術学会誌,* **Vol.74,** *No.11,* 2018年11月.
342. **木田 智士, 鍛治 静雄, 今江 禄一, 名和 要武, 中川 恵一, 芳賀 昭弘 :** 敵対的生成ネットワーク(GAN)の放射線治療への応用, *Rad Fan,* 2018年11月.
343. **仲本 宗泰, 芳賀 昭弘, 高橋 渉 :** Radiomics入門, *医学物理:解説,* **Vol.38,** *No.2,* 2018年11月.
344. **Okazaki Tohru, Hiroaki Hayashi, Asahara Takashi, Goto Sota, Mihara Yoshiki, Tomita Emi, Yuki Kanazawa, Kimoto Natsumi, Hashizume Takuya, Cruz LE Vergil, Hsin Wei Cheng *and* Yokoyama Sumi :** Proper Calibration Factor of Small Type OSL Dosimeter for Evaluating Eye Lens Dose of Operators during X-ray Fluoroscopic Procedure, *th Asian and Oceanic IRPA Regional Congress on Radiation Protection (AOARP5),* Melbourne, May 2018.
345. **Cruz Lorenzo Estacio Vergil, Hiroaki Hayashi, Tomita Emi, Yuki Kanazawa, Goto Sota, Mihara Yoshiki, Kimoto Natsumi, Asahara Takashi, Tada Keiji, Kasai Ryosuke, Higashino Kosaku, Yamashita Kazuta, Okazaki Tohru *and* Hashizume Takuya :** Radiation dose measurement in pediatric CT examination using nanoDot dosimeters, a small type Optically Stimulated Luminescence (OSL) dosimeter, *5th Asian and Oceanic IRPA Regional Congress on Radiation Protection (AOARP5),* Melbourne, May 2018.
346. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo *and* Mitsuharu Miyoshi :** Chemical exchange saturation transfer imaging for neurodegenerative diseases, *ISMRM 26th Annual Meeting,* Paris, Jun. 2018.
347. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi, Ikuho Kosaka, Kotaro Baba, Hiroaki Hayashi *and* Yuki Matsumoto :** Nuclear Overhauser enhancement effect of low B1 power CEST RF in human brain at 3.0 T, *ISMRM 26th Annual Meeting,* Paris, Jun. 2018.
348. **Yuki Kanazawa, Toshiaki Sasaki, Hiroaki Hayashi, Kotaro Baba, Ikuho Kosaka, Yuki Matsumoto, Mitsuharu Miyoshi *and* Masafumi Harada :** T1 dependency of magnetization transfer effect in human brain, *ISMRM 26th Annual Meeting,* Paris, Jun. 2018.
349. **Yuki Kanazawa, Kotaro Baba, Tosiaki Miyati, Masafumi Harada, Hiroaki Hayashi, Ikuho Kosaka, Mitsuharu Miyoshi, Michael Carl *and* Yuki Matsumoto :** Does the amount of signal change depend on calcium concentration in lipid-rich core plaque?, *ISMRM 26th Annual Meeting,* Paris, Jun. 2018.
350. **Hashimoto M, Nakano M, Akihiro Haga *and* Nawa K :** Patient Setup System Using a Virtual X-Ray Image, *Medical Physics (Annual Meeting of American Association of Physicist in Medicine),* Nashville, America, Jul. 2018.
351. **Nakamoto T, Takahashi W, Akihiro Haga, Takahashi S, Nawa K, Ohta T, Ozaki S, Tanaka S, Mukasa A *and* Nakagawa K :** Radiomics-Based Prediction of Malignant Glioma Grades Using T2-Weighted Magnetic Resonance Images, *Medical Physics (Annual Meeting of American Association of Physicist in Medicine),* Nashville, America, Jul. 2018.
352. **Kotoku J, Oyama A, Hiraoka Y, Obayashi I, Shiraishi K, Akihiro Haga, Kondo H, Saikawa Y, Kobayashi T *and* Furui S :** Classification of Hepatic Tumor Images Using Persistent Homology, *Medical Physics (Annual Meeting of American Association of Physicist in Medicine),* Nashville, America, Jul. 2018.
353. **Akihiro Haga, Takahashi W, Aoki S, Nawa K, Yamashita H, Kotoku J, Abe O *and* Nakagawa K :** Histology Classification in Early-Stage Non-Small Cell Lung Cancers Using Radiomic Features, *Medical Physics (Annual Meeting of American Association of Physicist in Medicine),* Nashville, America, Jul. 2018.
354. **Watanabe Y, Magome T, Akihiro Haga, Nawa K, Nakano M, Nomura Y, Hanaoka S *and* Nakagawa K :** Field-Of-View Expansion of Megavoltage CT Based On Iterative Reconstruction Algorithm Using Information of Treatment Planning kV-CT, *Medical Physics (Annual Meeting of American Association of Physicist in Medicine),* Nashville, America, Jul. 2018.
355. **Tomita Emi, Hiroaki Hayashi, Asahara Takashi, Shitakubo Yasufumi, Sakuragawa Kanako, Hitoshi Ikushima, Yuki Kanazawa, Okazaki Tohru *and* Hashizume Takuya :** First Trial of Actual Dose Measurement of Organ at Risk During Brachytherapy for Cervical Cancer in Tokushima University Hospital, *Second International Seminar and Workshop on Technological Competency as Caring in the Health Science,* Tokushima, Aug. 2018.
356. **Akihiro Haga :** Standardization of imaging features for radiomics analysis, *The second workshop of Technological Competency as Caring in the Health Sciences,* Aug. 2018.
357. **Chisato Tonoiso, Hitoshi Ikushima, Akihiro Haga, Shunsuke Furutani, Takashi Kawanaka, Akiko Kubo, Masato Nishimura, Akiko Abe, Minoru Irahara *and* Masafumi Harada :** Investigation of prognostic factors of cervical cancer using pre-treatment MRI images, *The 2018 International Gynecologic Cancer Society Meeting,* Sep. 2018.
358. **Natsumi Kimoto, Hiroaki Hayashi, Takashi Asahara, Emi Tomita, Sota Goto, Yuki Kanazawa, Shuichiro Yamamoto, Masahiro Okada *and* Masaki Yamasaki :** Reproduction of response functions of a multi-pixel-type energy-resolved photon counting detector while taking into consideration interaction of X-rays, charge sharing and energy resolution, *25th International Symposium on Room-Temperature Semiconductor X-ray & Gamma-ray Detectors,* Sydney, Nov. 2018.
359. **GOTO Sota, Hiroaki Hayashi, TOMITA Emi, KIMOTO Natsumi, UEHARA Takumi, Yuki Kanazawa, ASAKAWA Takumi, ASAHARA Takashi, OKAZAKI Tohru *and* HASHIZUME Takuya :** Trial study for development of a novel-formed dosimeter having lower angular dependence, *18th Asia-Oceania Congress of Medical Physics (AOCMP),* Malaysia, Nov. 2018.
360. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo *and* Miyoshi Mitsuharu :** Chemical exchange saturation transfer imaging for brain tumors, *RSNA2018 (Radiological Society of North America),* Chicago, Nov. 2018.
361. **Yuki Kanazawa, Chiba Daiki, Masafumi Harada, Miyati Tosiaki, Miyoshi Mitsuharu, Hayashi Hiroaki *and* Akihiro Haga :** Quantitative evaluation of local offset frequency for CEST imaging, *The 3rd Annual Scientific Meeting of the Japanese Chapter of ISMRM,* Nagoya, Dec. 2018.
362. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo, Amgalan Enkh Dolgorsuren, Ariumbold Gankhuyag, Takamatsu Shin *and* Yamashita Yuichi :** Which number of b-value is better for accurate calculation of virtual MR elastography?, *European Congress of Radiology,* Wien, Mar. 2019.
363. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo, Ariunbold Gankhuyag, Amgalan Enkh Dolgorsuren, Takamatsu Shin *and* Yamashita Yuichi :** Why are shear stiffness and estimated intravoxel incoherent motion map correlated in the liver?, *European Congress of Radiology,* Wien, Mar. 2019.
364. **Yoshiki Mihara, Hiroaki Hayashi, Takumi Uehara, Emi Tomita, Sota Goto, Keiji Tada, Yuki Kanazawa, Tohru Okazaki *and* Takuya Hashizume :** Where do the scattering X-rays to eye lens exposure come from during neonatal cardiac CT examination?, *European Congress of Radiology,* Wien, Mar. 2019.
365. **Tohru Okazaki, Hiroaki Hayashi, Sota Goto, Takashi Asahara, Emi Tomita, Yuki Kanazawa, Takuya Hashizume, V Cruz *and* H W Cheng :** Determining the difference of calibration factors in diagnostic X-rays and mono-energetic X-rays of the small type OSL dosimeter for a more precise dose evaluation in diagnostic X-ray examinations, *European Congress of Radiology,* Wien, Mar. 2019.
366. **Takashi Asahara, Hiroaki Hayashi, Emi Tomita, Yoshiki Mihara, Sota Goto, Yuki Kanazawa, Natsumi Kimoto, Takumi Asakawa *and* Tohru Okazaki :** Actual dose measurements of assistant during pediatric X-ray examination with a precisely calibrated optically stimulated luminescence dosimeter, *European Congress of Radiology,* Wien, Mar. 2019.
367. **Emi Tomita, Hiroaki Hayashi, Takashi Asahara, Yasufumi Shitakubo, Kanako Sakuragawa, Hitoshi Ikushima, Yuki Kanazawa, Tohru Okazaki *and* Takuya Hashizume :** Evaluation of dose to risk organ during brachytherapy for cervical cancer using a novel passive rectum dosimeter, *European Congress of Radiology,* Wien, Mar. 2019.
368. **Natsumi Kimoto, Hiroaki Hayashi, Takumi Asakawa, Takashi Asahara, Akitoshi Katsumata, Yuki Kanazawa, Shuichiro Yamamoto *and* Masahiro Okada :** Effective atomic number image produced with energy-resolved photon counting detector toward the development of next-generation plain X-ray diagnosis, *European Congress of Radiology,* Wien, Mar. 2019.
369. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo, Ariunbold Gankhuyag, Amgalan Enkh Dolgorsuren *and* Hideki Otsuka :** Virtual MR elastography using IVIM stretched model, *Japanese Journal of Radiological Technology,* Apr. 2018.
370. **Asahara Takashi, Hiroaki Hayashi, Tomita Emi, Goto Sota, Yokoyama Sumi, Yuki Kanazawa *and* Okazaki Tohru :** Proposal of Accurate Calibration for Measuring Eye Lens Dose of the Operator during Transfemoral Cardiac Catheterization with Fluoroscopic System Using an OSL dosimeter, *第74回日本放射線技術学会総会学術大会,* Apr. 2018.
371. **TOMITA Emi, Hiroaki Hayashi, SHITAKUBO Yasufumi, SAKURAGAWA Kanako, Yuki Kanazawa, Hitoshi Ikushima, OKAZAKI Tohru, ASAHARA Takashi, HASHIZUME Takuya *and* MIYAHARA Yoshinori :** Rectum Dose Measurements Using Novel Dosimetric System During High-Dose-Rate 192Ir Brachytherapy Treatment of Cervical Cancer, *第74回日本放射線技術学会総会学術大会,* Apr. 2018.
372. **Akihiro Haga :** Radiomics and Image Analysis, *日本医学物理学会日本医学放射線学会日本放射線技術学会ー合同シンポジウム, 横浜,* Apr. 2018.
373. **Pohl Michel, Demachi Kazuyuki, Chhatkuli Bhusal Ritu, Akihiro Haga *and* Uesaka Mituru :** Combination of optical flow and principal component analysis for tumor motion analysis during X-ray radiotherapy, *第115回日本医学物理学会, 横浜,* Apr. 2018.
374. **岡崎 徹, 淺原 孝, 橋詰 拓弥, Cruz Vergil, Hsin Wei Cheng, 林 裕晃, 冨田 恵美, 後藤 聡汰, 三原 由樹, 金澤 裕樹, 横山 須美 :** 小型OSL線量計を用いたIVR術者水晶体被ばく線量測定に向けた線量値の信頼性の検証, *日本保健物理学会第51回研究発表会,* 2018年6月.
375. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo *and* Miyoshi Mitsuharu :** Chemical exchange saturation transfer imaging for brain tumors, *日本分子イメージング学会,* Jun. 2018.
376. **Yuki Kanazawa, Yuki Kinjoh, Masafumi Harada, Hiroaki Hayashi, Yo Taniguchi, Yoshitaka Bito, Yuki Matsumoto *and* Masaharu Ono :** Construction of voxel-based morphometry of R1 and R2\* derived from quantitative parameter mapping, *第46回日本磁気共鳴医学会大会,* Sep. 2018.
377. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Maki Ohtomo, Amgalan Enkh Dolgorsuren, Ariumbold Gankhuyag, Takamatsu Shin *and* Yamashita Yuichi :** Determination of the thresholding values for virtual MR elastography, *JSMRM2018,* Sep. 2018.
378. **大友 真姫, 阿部 考志, 松元 友暉, 金澤 裕樹, 原田 雅史 :** ASL法により観察された健常ボランティアにおける脳灌流の再現性と性差の評価, *第46回日本磁気共鳴学会大会,* 2018年9月.
379. **後藤 聡汰, 林 裕晃, 冨田 恵美, 上原 匠, 紀本 夏実, 金澤 裕樹, 岡崎 徹, 橋詰 拓弥 :** 角度依存性の少ない小型OSL線量計の開発に向けた一考察, *第46回日本放射線技術学会秋季学術大会,* 2018年10月.
380. **金城 佑奎, 金澤 裕樹, 長澤 良子, 谷口 陽, 尾藤 良孝, 小野 順玄, 原田 雅史, 千葉 大輝, 松元 友暉, 芳賀 昭弘 :** Quantitative Parameter Mapping(QPM)を用いたミエリン描出能の検討: ポリエチレングリコールを用いた ファントム実験, *第46回日本放射線技術学会秋季学術大会,* 2018年10月.
381. **千葉 大輝, 金澤 裕樹, 金城 佑奎, 長澤 良子, 三好 光晴, 林 裕晃, 原田 雅史, 芳賀 昭弘 :** CESTイメージングにおける局所オフセット周波数の定量評価法の開発, *第46回日本放射線技術学会秋季学術大会,* 2018年10月.
382. **長澤 良子, 金澤 裕樹, 金城 佑奎, 千葉 大輝, 原田 雅史, 林 裕晃, 松元 友暉, 芳賀 昭弘 :** 硬さの検出を目的としたIntravoxel Incoherent Motion(IVIM)を用いた曲線解析モデルの比較, *第46回日本放射線技術学会秋季学術大会,* 2018年10月.
383. **外礒 千智, 芳賀 昭弘, 高橋 彩加, 久保 亜貴子, 川中 崇, 古谷 俊介, 生島 仁史, 原田 雅史 :** 治療前MRI画像を用いた子宮頸癌予後因子の検討, *日本放射線腫瘍学会第31回学術大会,* 2018年10月.
384. **高橋 渉, 仲本 宗泰, 芳賀 昭弘, 高橋 慧, 田中 将太, 山下 英臣, 中川 恵一 :** MRI画像に基づくラディオミクスによる神経膠腫1p/19q共欠失の非侵襲的解析, *日本放射線腫瘍学会第31回学術大会,* 2018年10月.
385. **仲本 宗泰, 高橋 渉, 芳賀 昭弘, 高橋 慧, 名和 要武, 太田 岳史, 尾崎 翔, 野沢 祐樹, 田中 将太, 武笠 昭武, 中川 恵一 :** ラディオミクスに基づく神経膠腫グレード分類の基礎的検討, *日本放射線腫瘍学会第31回学術大会,* 2018年10月.
386. **岡崎 徹, 林 裕晃, 後藤 聡汰, 淺原 孝, 冨田 恵美, 金澤 裕樹, 橋詰 拓弥, Cruz Vergil, Hsin Wei Cheng :** 小型OSL線量計の診断用X線に対する応答のエネルギー依存性の精密評価, *日本放射線安全管理学会 第17回 学術大会,* 2018年12月.
387. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Maki Ohtomo, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Calculation of molar relaxivity and concentration map of Gd-DTPA map using quantitative parameter map before and after injection for brain metastasis, *ISMRM Japanese Chapter,* Dec. 2018.
388. **芳賀 昭弘 :** 第三回レディオミクス研究会:徳島大, *レディオミクス研究会(中国・四国高度がんプロ養成基盤プログラム),* 2019年3月.
389. **金澤 裕樹 :** MRIの原理と各種撮像シーケンス, --- MRI再入門 放射線科医のためのマストアイテム Part 1 ---, 学研メディカル秀潤社, 東京, 2020年1月.
390. **金澤 裕樹 :** その他のMR撮像法(MRIによる血管撮像法，脂肪抑制法，MR hydrography), --- 図解 診療放射線技術実践ガイド 第4版 ---, 文光堂, 東京, 2020年1月.
391. **芳賀 昭弘 :** 工学教程 放射線生物学, --- 第3章3.5線量率と分割照射 ---, 東京大学出版, 東京, 2020年3月.
392. **Takashi Abe, Yuki Matsumoto, Yuki Kanazawa, Yoichi Otomi, Maki Otomo, Moriaki Yamanaka, Mihoko Kondo, Saya Matsuzaki, Ariunbold Gankhuyag, Enkhamgalan Dolgorsuren, Oyundari Gonchigsuren *and* Masafumi Harada :** Comparing neural networks for synthesizing FLAIR images from T1WI and T2WI, *Proceedings of the 27th Annual Meeting of ISMRM, No.240,* 2019.
393. **Yuki Kanazawa, Yuki Matsumoto, Masafumi Harada, Hiroaki Hayashi, Tsuyoshi Matsuda *and* Hideki Otsuka :** Appropriate echo time selection for quantitative susceptibility mapping., *Radiological Physics and Technology,* **Vol.12,** 185-193, 2019.
394. **Yuki Kanazawa, Masafumi Harada, Taniguchi Yo, Hiroaki Hayashi, Takashi Abe, Maki Ohtomo, Yuki Matsumoto, Ono Masafumi, Bito Yoshitaka *and* Akihiro Haga :** Myelin imaging derived from quantitative parameter mapping, *Proceedings of the 27th Annual Meeting of ISMRM, No.3313,* 2019.
395. **Yuki Kanazawa, Chiba Daiki, Masafumi Harada, Miyati Tosiaki, Miyoshi Mitsuharu, Hiroaki Hayashi, Yuki Matsumoto, Takashi Abe *and* Akihiro Haga :** Thermal sensitive pH imaging using CEST, *Proceedings of the 27th Annual Meeting of ISMRM, No.3991,* 2019.
396. **Kenya Kusunose, Akihiro Haga, Takashi Abe *and* Masataka Sata :** Utilization of Artificial Intelligence in Echocardiography, *Circulation Journal,* **Vol.83,** *No.8,* 1623-1629, 2019.
397. **Takahiro Nakamoto, Wataru Takahashi, Akihiro Haga, Satoshi Takahashi, Shigeru Kiryu, Kanabu Nawa, Takeshi Ohta, Sho Ozaki, Yuki Nozawa, Shota Tanaka, Akitake Mukasa *and* Keiichi Nakagawa :** Prediction of malignant glioma grades using contrast-enhanced T1-weighted and T2-weighted magnetic resonance images based on a radiomic analysis, *Scientific Reports,* **Vol.9,** *No.1,* 19411, 2019.
398. **Takuya Mizutani, Taiki Magome, Hiroshi Igaki, Akihiro Haga, Kanabu Nawa, Noriyasu Sekiya *and* Keiichi Nakagawa :** Optimization of treatment strategy by using a machine learning model to predict survival time of patients with malignant glioma after radiotherapy, *Journal of Radiation Research,* **Vol.60,** *No.6,* 818-824, 2019.
399. **Satoshi Takahashi, Wataru Takahashi, Shota Tanaka, Akihiro Haga, Takahiro Nakamoto, Yuichi Suzuki, Taijun Hana, Akitake Mukasa, Shunsaku Takayanagi, Yosuke Kitagawa, Takahide Nejo, Masashi Nomura, Keiichi Nakagawa *and* Nobuhito Saito :** Radiomics Analysis for Glioma Malignancy Evaluation Using Diffusion Kurtosis and Tensor Imaging, *International Journal of Radiation Oncology\*Biology\*Physics,* **Vol.105,** *No.4,* 784-791, 2019.
400. **Wataru Takahashi, Kanabu Nawa, Akihiro Haga, Hideomi Yamashita, Toshikazu Imae, Mami Ogita, Kae Okuma, Osamu Abe *and* Keiichi Nakagawa :** Acceptable fetal dose using flattening filter-free volumetric arc therapy (FFF VMAT) in postoperative chemoradiotherapy of tongue cancer during pregnancy,, *Clinical and Translational Radiation Oncology,* **Vol.20,** 9-12, 2019.
401. **Ryosuke Takenaka, Akihiro Haga, Kanabu Nawa, Yamashita Hideomi *and* Keiichi Nakagawa :** Improvement of the robustness to set up error by a virtual bolus in total scalp irradiation with Helical TomoTherapy, *Radiological Physics and Technology,* **Vol.12,** *No.4,* 433-437, 2019.
402. **Ozaki Sho, Akihiro Haga, Chao Edward, Maurer Calvin, Nawa Kanabu, Ohta Takeshi, Nakamoto Takahiro, Nozawa Yuki, Magome Taiki, Nakano Masahiro *and* Nakagawa Keiichi :** Fast Statistical Iterative Reconstruction for Mega-voltage Computed Tomography, *The Journal of Medical Investigation : JMI,* **Vol.67,** *No.1,2,* 30-39, 2020.
403. **芳賀 昭弘, 楠瀬 賢也 :** エコーレディオミクス:超音波画像を用いた心エコー解析, *Medical Imaging Technology,* **Vol.38,** *No.1,* 21-26, 2020年.
404. **Kenya Kusunose, Akihiro Haga, Natsumi Yamaguchi, Takashi Abe, Daiju Fukuda, Hirotsugu Yamada, Masafumi Harada *and* Masataka Sata :** Deep Learning for Assessment of Left Ventricular Ejection Fraction from Echocardiographic Images, *Journal of the American Society of Echocardiography,* **Vol.33,** *No.5,* 632-635, 2020.
405. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Maki Ohtomo *and* Miyoshi Mitsuharu :** Chemical exchange saturation transfer imaging depending on several neurodegenerative diseases at 3T, *Proceedings of the 27th Annual Meeting of ISMRM, No.2795,* 2019.
406. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Maki Ohtomo, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Calculation of molar relaxivity and concentration map of Gd-DTPA map using quantitative parameter map before and after injection for brain metastasis, *Proceedings of the 27th Annual Meeting of ISMRM, No.4983,* 2019.
407. **芳賀 昭弘 :** 物理学と機械学習,そして医療, *四国医学雑誌,* **Vol.75,** *No.5,6,* 155-164, 2019年12月.
408. **Takashi Abe, Yuki Matsumoto, Yuki Kanazawa, Yoichi Otomi, Maki Otomo, Moriaki Yamanaka, Mihoko Kondou, Saya Matsuzaki, Ariundbold Gankhuyag, Enkhamgalan Dolgorsuren, Oyundari Gonchigsuren *and* Masafumi Harada :** Comparing neural networks for synthesizing FLAIR images from T1WI and T2WI, *ISMRM 27th Annual Meeting,* Montreal, Apr. 2019.
409. **Yuki Kanazawa, Masafumi Harada, Taniguchi Yo, Hiroaki Hayashi, Takashi Abe, Maki Ohtomo, Yuki Matsumoto, Ono Masafumi, Bito Yoshitaka *and* Akihiro Haga :** Myelin imaging derived from quantitative parameter mapping, *ISMRM 27th Annual Meeting,* Montreal, May 2019.
410. **Yuki Kanazawa, Chiba Daiki, Masafumi Harada, Miyati Tosiaki, Miyoshi Mitsuharu, Hiroaki Hayashi, Yuki Matsumoto, Takashi Abe *and* Akihiro Haga :** Thermal sensitive pH imaging using CEST, *ISMRM 27th Annual Meeting,* Montreal, May 2019.
411. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Maki Ohtomo *and* Miyoshi Mitsuharu :** Chemical exchange saturation transfer imaging depending on several neurodegenerative diseases at 3T, *ISMRM 27th Annual Meeting,* Montreal, May 2019.
412. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Maki Ohtomo, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Calculation of molar relaxivity and concentration map of Gd-DTPA map using quantitative parameter map before and after injection for brain metastasis, *ISMRM 27th Annual Meeting,* Montreal, May 2019.
413. **Nakano Masahiro, Image Toshikazu, Nakamoto Toshi, Akihiro Haga, Nawa Kanabu, Nomura Yuki, Chhatkuli Ritu, Demachi Kenji, Takahashi Wataru *and* Yamamoto Koichi :** Pseudo-CBCT Image Prediction of Head and Neck Cancer Patient Using Principal Component Vector Fields of Early Treatment Fractions, *AAPM 61th annual meeting,* Jul. 2019.
414. **Asahara Takashi, Hayashi Hiroaki, Goto Sota, Tomita Emi, Kimoto Natsumi, Asakawa Takumi, Takegami Kazuki, Yuki Kanazawa, Okazaki Tohru *and* Hashizume Takuya :** Precise dose calibration method of OSL dosimeter with help of X-ray spectra toward exposure dose evaluation of eye lens, *19th International Conference on Solid State Dosimetry (SSD19),* Hiroshima, Sep. 2019.
415. **Takegami Kazuki, Hayashi Hiroaki, Kimoto Natsumi, Goto Sota, Tomita Emi, Takashi Asahara, Mihara Yoshiki *and* Yuki Kanazawa :** Practical calibration curve for a small-type OSL dosimeter to measure exposure dose of patients during medical X-ray diagnosis, *19th International Conference on Solid State Dosimetry (SSD19),* Hiroshima, Sep. 2019.
416. **Tomita Emi, Hayashi Hiroaki, Asahara Takashi, Kimoto Natsumi, Goto Sota, Yuki Kanazawa, Shitakubo Yasufumi, Sakuragawa Kanako, Hitoshi Ikushima, Okazaki Tohru *and* Hashizume Takuya :** Development of a Clinically Applicable Rectum Dosimeter for Brachytherapy using an Optically Stimulated Luminescence Dosimeter, *19th International Conference on Solid State Dosimetry (SSD19),* Hiroshima, Sep. 2019.
417. **GOTO Sota, HAYASHI Hiroaki, TOMITA Emi, ASAHARA Takashi, KIMOTO Natsumi, Yuki Kanazawa, YAMAGUCHI Hidetoshi *and* SHIMIZU Morihito :** Novel Disk-Shaped OSL Dosimeter Having Smaller Angular Dependence, *19th International Conference on Solid State Dosimetry (SSD19),* Hiroshima, Sep. 2019.
418. **Kimoto Natsumi, Hayashi Hiroaki, Asakawa Takumi, Asahara Takashi, Maeda Tatsuya, Yuki Kanazawa, Katsumata Akitoshi, Yamamoto Shuichiro *and* Okada Masahiro :** Feasibility study of photon counting detector for producing effective atomic number image, *IEEE Nuclear Science Symposium and Medical Imaging Conference,* Manchester, Nov. 2019.
419. **Takahashi Satoshi, Tanaka Shota, Takahashi Masamichi, Yamazawa Erika, Hana Taijun, Kitagawa Yosuke, Takayanagi Shunsaku, Takahashi Wataru, Nakamoto Takahiro, Akihiro Haga, Hamamoto Ryuhi *and* Saito Nobuhito :** Visualization of judgment basis of CNN to grading glioma, *2019 SNO Annual Meeting,* Nov. 2019.
420. **Kimoto Natsumi, Hiroaki Hayashi, Asakawa Takumi, Asahara Takashi, Maeda Tatsuya, Katsumata Akitoshi, Yuki Kanazawa, Koyama Shuji, Yamamoto Shuichiro *and* Okada Masahiro :** Photon counting technique: How to analyze a novel quantitative image?, *RSNA2019 (Radiological Society of North America),* Chicago, Dec. 2019.
421. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Maki Ohtomo, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Simultaneously Calculation of Concentration of Contrast Media, Relaxivity, and Oxygen Extraction Fraction using Quantitative Parameter Mapping, *RSNA2019 (Radiological Society of North America),* Chicago, Dec. 2019.
422. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** How does synthetic MRI depict biological information? A step toward planning for deep brain stimulation (DBS), *European Congress of Radiology,* Wien, Mar. 2020.
423. **Wada Yugo, Yuki Kanazawa, Masafumi Harada, Naoki Maeda, Yuki Matsumoto, Takashi Abe, Hiroaki Hayashi, Miyoshi Mitsuharu *and* Carl Michel :** Multi-components analysis of brain using ultrashort echo time magnetic resonance imaging, *European Congress of Radiology,* Wien, Mar. 2020.
424. **Maeda Naoki, Yuki Kanazawa, Masafumi Harada, Tanigichi Yo, Yuki Matsumoto, Takashi Abe, Hiroaki Hayashi, Ono Masaharu *and* Bito Yoshitaka :** Multicomponent T1 Relaxometry Analysis using Quantitative Parameter Mapping Magnetic Resonance Imaging, *European Congress of Radiology,* Wien, Mar. 2020.
425. **Sota GOTO, Hiroaki HAYASHI, Emi TOMITA, Takumi UEHARA, Yuki Kanazawa, Tohru OKAZAKI *and* Takuya HASHIZUME :** Trial production and evaluation of characteristics of novel-shaped optically stimulated luminescence dosimeter having lower angular dependence, *第75回放射線技術学会総会学術大会,* Apr. 2019.
426. **Mihara Yoshiki, Hayashi Hiroaki, Uehara Takumi, Tada Keiji, Yuki Kanazawa, Okazaki Tohru *and* Kajitani Takafumi :** An experiment toward proposing a way to reduce eye lens exposure dose using small-type OSL dosimeter during neonatal cardiac CT examination, *第75回放射線技術学会総会学術大会,* Apr. 2019.
427. **Asahara Takashi, Hayashi Hiroaki, Mihara Yoshiki, Tomita Emi, Yuki Kanazawa, Yamada Kenji *and* Okazaki Tohru :** Actual Dose Measurement of Assistants while Positioning Patients during Pediatric X-ray Examination Using a Small-type Optically Stimulated Luminescence Dosimeter, *第75回放射線技術学会総会学術大会,* Apr. 2019.
428. **芳賀 昭弘 :** 私が思う科研費獲得に重要なこと, *第117 回⽇本医学物理学会学術⼤会シンポジウム,* 2019年4月.
429. **金澤 裕樹, 原田 雅史, 谷口 陽, 林 裕晃, 阿部 考志, 大友 真姫, 松元 友暉, 小野 順玄, 尾藤 良孝, 芳賀 昭弘 :** Quantitative Parameter Mappingを用いたミエリンMRI, *第75回日本放射線技術学会総会学術大会,* 2019年4月.
430. **冨田 恵美, 林 裕晃, 淺原 孝, 下窪 康史, 櫻川 加奈子, 金澤 裕樹, 生島 仁史 :** 子宮頸癌の腔内照射における直腸線量実測に向けたディスポーザブル型直腸線量計の開発, *日本放射線腫瘍学会小線源治療部会第21回学術大会,* 2019年5月.
431. **下窪 康史, 櫻川 加奈子, 冨田 恵美, 林 裕晃, 金澤 裕樹, 生島 仁史 :** 子宮頸癌RALSにおける自作直腸線量計を用いた実臨床データとその分析, *日本放射線腫瘍学会小線源治療部会第21回学術大会,* 2019年5月.
432. **芳賀 昭弘 :** 物理学と機械学習,そして医療, *第259回徳島医学会,* 2019年8月.
433. **紀本 夏実, 林 裕晃, 淺川 巧, 淺原 孝, 前田 達哉, 金澤 裕樹, 勝又 明敏, 山本 修一郎, 岡田 雅宏 :** 医療用連続X線を用いたフォトンカウンティング検出器による実効原子番号画像, *第2回量子線イメージング研究会,* 2019年9月.
434. **Yuki Kinjo, Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Yuki Matsumoto, Takashi Abe, Hiroaki Hayashi, Masaharu Ono, Yoshitaka Bito *and* Akihiro Haga :** Comparison of estimation parameters of relaxation rate and susceptibility for myelin content with quantitative parameter mapping, *JSMRM2019,* Sep. 2019.
435. **山口 夏美, 楠瀬 賢也, 芳賀 昭弘, 森田 沙瑛, 平田 有紀奈, 鳥居 裕太, 西尾 進, 山田 なお, 阿部 美保, 福田 大受, 山田 博胤, 佐田 政隆 :** 深層学習を用いた左室駆出率の推定:心エコー図法による検討(優秀演題 メディカルスタッフ), *第67回日本心臓病学会学術集会,* 2019年9月.
436. **楠瀬 賢也, 芳賀 昭弘, 山田 博胤, 中谷 敏, 佐田 政隆 :** 心エコー図法における人工知能技術活用の今(シンポジウム19 AIでどこまで心臓病診療は進むか?), *第67回日本心臓病学会学術集会,* 2019年9月.
437. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Calculation of extracellular pH using quantitative parameter mapping, *JSMRM2019,* Sep. 2019.
438. **松元 友暉, 金澤 裕樹, 金城 祐奎, 原田 雅史, 阿部 考志, 兼松 康久, 髙木 康志 :** 頸動脈狭窄の定量評価を目的とした4D-flow流体解析, *第1回 4D FLOW研究会,* 2019年9月.
439. **富永 正英, 山内 奈緒, 芳賀 昭弘, 佐々木 幹治, 兒島 雄志 :** 治療計画用CT画像を用いた非小細胞肺癌の病理分類, *第15回中国四国放射線医療技術フォーラムCSFRT2019,* 2019年9月.
440. **外礒 千智, 芳賀 昭弘, 久保 亜貴子, 川中 崇, 古谷 俊介, 工藤 隆治, 生島 仁史, 原田 雅史 :** 子宮頸部扁平上皮癌における予後因子の検討, *日本放射線腫瘍学会第32回学術大会,* 2019年11月.
441. **下村 泰生, 芳賀 昭弘 :** ルジャンドル関数を用いた人体表現, *第2回 四国地区4大学大学院合同研究発表会,* 2019年12月.
442. **Goto Sota, Hayashi Hiroaki, Tomita Emi, Asahara Takashi, Ikushima Kaho, Kuwabara Momoka *and* Yuki Kanazawa :** Phantom study using novel shaped OSL dosimeters having smaller angular dependence toward actual dose measurement during clinical X-ray examination, *第76回日本放射線技術学会総会学術大会,* 2020.
443. **横田 健斗, 芳賀 昭弘 :** 深層学習による電子相関を含む多電子原子系の波動関数の再現, *日本物理学会春季大会,* 2020年3月.
444. **芳賀 昭弘 :** レディオミクス(Radiomics)と画像の表現, *第38回徳島CT研究会,* 2019年6月.
445. **芳賀 昭弘 :** Invivo dosimetry: 放射線治療中のデータを用いた線量再構成, *第10回四国放射線治療ネットワークセミナー,* 2019年6月.
446. **芳賀 昭弘 :** レディオミクス概論:特徴量抽出と深層学習, *日本放射線技術学会中国四国支部2019年度支部セミナー,* 2019年6月.
447. **芳賀 昭弘 :** レディオミクス(Radiomics):医用画像を用いた病期・病理・予後予測の可能性, *第2回ビッグデータ・AI研究会(日本消化器学会),* 2019年6月.
448. **芳賀 昭弘 :** 第四回レディオミクス研究会:@東北大, *レディオミクス研究会(東北大学星陵キャンパス),* 2019年10月.
449. **Akihiro Haga :** Imaging physics: Standardization of medical image, *Medical Physics Forum (WEB),* Mar. 2020.
450. **芳賀 昭弘 :** 放射線治療AIと外科治療AI, 株式会社 オーム社, 東京, 2020年4月.
451. **石田 基広, 大薮 進喜, 上田 哲史, 掛井 秀一, 金西 計英, 谷岡 広樹, 中山 慎一, 芳賀 昭弘 :** 情報科学入門 統計・データサイエンス・AI, 技術評論社, 2021年3月.
452. **Kenya Kusunose, Akihiro Haga, Mizuki Inoue, Daiju Fukuda, Hirotsugu Yamada *and* Masataka Sata :** Clinically Feasible and Accurate View Classification of Echocardiographic Images Using Deep Learning, *Biomolecules,* **Vol.10,** *No.5,* E665, 2020.
453. **Kenya Kusunose, Takashi Abe, Akihiro Haga, Daiju Fukuda, Hirotsugu Yamada, Masafumi Harada *and* Masataka Sata :** A Deep Learning Approach for Assessment of Regional Wall Motion Abnormality From Echocardiographic Images, *JACC. Cardiovascular Imaging,* **Vol.13,** *No.2,* 374-381, 2020.
454. **Toshikazu Imae, Akihiro Haga, Yuichi Watanabe, Shigeharu Takenaka, Takashi Shiraki, Kanabu Nawa, Mami Ogita, Wataru Takahashi, Hideomi Yamashita, Keiichi Nakagawa *and* Osamu Abe :** Retrospective dose reconstruction of prostate stereotactic body radiotherapy using conebeam CT and a log file during VMAT delivery with flatteningfilterfree mode, *Radiological Physics and Technology,* 2020.
455. **Naoki Maeda, Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Yuki Matsumoto, Takashi Abe, Hiroaki Hayashi, Masaharu Ono *and* Yoshitaka Bito :** Multicomponent T1 Relaxometry Analysis using Quantitative Parameter Mapping Magnetic Resonance Imaging, *European Congress of Radiology (EPOS), No.C-8678,* 2020.
456. **Yugo Wada, Yuki Kanazawa, Masafumi Harada, Naoki Maeda, Yuki Matsumoto, Takashi Abe, Hiroaki Hayashi, Mitsuharu Miyoshi *and* Carl Michael :** Multi-components analysis of brain using ultrashort echo time magnetic resonance imaging, *European Congress of Radiology (EPOS), No.C-08766,* 2020.
457. **Kazuki Takegami, Hiroaki Hayashi, Takashi Asahara, Sota Goto, Emi Tomita, Natsumi Kimoto, Yuki Kanazawa *and* Shohei Kudomi :** Dose calibration factor of an OSL dosimeter during CT examination to measure exposure dose of patients taking into consideration proper X-ray quality, *European Congress of Radiology (EPOS), No.C-01393,* 2020.
458. **Yuki Kanazawa, Masafumi Harada, Tosiaki Miyati, Takashi Abe, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Yasuhisa Kanematsu *and* Yasushi Takagi :** Chemical Exchange Saturation Transfer Imaging for Atherosclerotic Plaques, *Proceedings of 28th Virtual Meeting of ISMRM, No.2128,* 2020.
459. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi, Takashi Abe, Yuki Matsumoto *and* Yasushi Takagi :** Characterization of Brain Tumors using Amide Proton and Nuclear Overhauser Effect at 3 Tesla MR Scanner, *Proceedings of the 28th Virtual Conference of ISMRM, No.1697,* 2020.
460. **Maki Ohtomo, Masafumi Harada, Takashi Abe, Yuki Matsumoto, Yumi Abe, Yuki Kanazawa, Mitsuharu Miyoshi, Hiroyuki Kabasawa *and* Yoshitake Takahashi :** Reproducibility and Variability of Quantitative Cerebral Blood Flow Measured by Multi-delay 3D Arterial Spin Labeling According to Sex and Menstrual Cycle, *The Journal of Medical Investigation : JMI,* **Vol.67,** *No.3.4,* 321-327, 2020.
461. **Ikuho Kosaka, Yuki Kanazawa, Kotaro Baba, Hiroaki Hayashi *and* Masafumi Harada :** Quantitative analysis of vibration waves based on Fourier transform in magnetic resonance elastography, *Radiological Physics and Technology,* **Vol.13,** 268-275, 2020.
462. **Sota Goto, Hiroaki Hayashi, Emi Tomita, Takashi Asahara, Natsumi Kimoto, Kazuki Takegami, Takumi Asakawa, Yuki Kanazawa, Tohru Okazaki *and* Takuya Hashizume :** An idea to reduce angular dependence of dosimeter having a disk-shaped detection region, *Radiation Measurements,* **Vol.137,** 106323, 2020.
463. **井上 雄介, 榎 泰之, 鈴木 正行, 金澤 裕樹, 川島 博子 :** 乳腺ダイナミックMRIにおける腫瘍辺縁部と腫瘍中心部の時間信号曲線の違いについてー病理組織との対比ー, *日本がん健診・診断学会誌,* **Vol.28,** *No.1,* 1-6, 2020年.
464. **Takashi Asahara, Hiroaki Hayashi, Sota Goto, Natsumi Kimoto, Kazuki Takegami, Tatsuya Maeda, Yuki Kanazawa, Tohru Okazaki *and* Takuya Hashizume :** Evaluation of calibration factor of OSLD toward eye lens exposure dose measurement of medical staff during IVR, *Journal of Applied Clinical Medical Physics,* **Vol.in press,** 2020.
465. **Jun'ichi Kotoku, Asuka Oyama, Kanako Kitazumi, Hiroshi Toki, Akihiro Haga, Ryohei Yamamoto, Maki Shinzawa, Miyae Yamakawa, Sakiko Fukui, Keiichi Yamamoto *and* Toshiki Moriyama :** Causal relations of health indices inferred statistically using the DirectLiNGAM algorithm from big data of Osaka prefecture health checkups, *PLoS ONE,* **Vol.15(12),** *No.12,* e0243229, 2020.
466. **Natsumi Kimoto, Hayashi Hiroaki, Takmumi Asakawa, Cheonghae Lee, Takashi Asahara, Tatsuya Maeda, Sota Goto, Yuki Kanazawa, Akitoshi Katsumata, Shuichiro Yamamoto *and* Masahiro Okada :** Effective atomic number image determination with an energy-resolving photon-counting detector using polychromatic X-ray attenuation by correcting for the beam hardening effect and detector response, *Applied Radiation and Isotopes,* **Vol.170,** 109617, 2021.
467. **Taisei Shimomura *and* Akihiro Haga :** Computed tomography image representation using the Legendre polynomial and spherical harmonics functions, *Radiological Physics and Technology,* **Vol.14,** 113-121, 2021.
468. **Hiroaki Hayashi, Natsumi Kimoto, Tatsuya Maeda, Emi Tomita, Takashi Asahara, Sota Goto, Yuki Kanazawa, Yasufumi Shitakubo, Kanako Sakuragawa, Hitoshi Ikushima, Tohru Okazaki *and* Takuya Hashizume :** A disposable OSL dosimeter for in-vivo measurement of rectum dose during brachytherapy, *Medical Physics,* **Vol.Online ahead of print,** 2021.
469. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Maki Ohtomo, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Calculation of Concentration of Contrast Media, Relaxivity, Extracellular pH and Oxygen Extraction Fraction for Brain Tumor Characterization, *Proceedings of the 28th Annual Meeting of ISMRM, No.4983,* 2020.
470. **Kazuki Takegami, Hiroaki Hayashi, Takashi Asahara, Sota Goto, Emi Tomita, Natsumi Kimoto, Yuki Kanazawa *and* Shohei Kudomi :** Dose calibration factor of an OSL dosimeter during CT examination to measure exposure dose of patients taking into consideration proper X-ray quality, *European Congress of Radiology, No.C-01393,* Online, Jul. 2020.
471. **Shimomura Taisei *and* Akihiro Haga :** Cone-beam CT image reconstruction with spherical harmonics, *2020 JOINT AAPM COMP meeting,* Jul. 2020.
472. **Hasegawa Yu, Akihiro Haga, Sakata Dousatsu, Yuki Kanazawa, Masahide Tominaga, Motoharu Sasaki, Imae T. *and* Nakagawa Keiichi :** Estimation of X-ray energy spectrum for CT scannerfrom percentage depth dose measurement, *2020 JOINT AAPM COMP meeting,* Jul. 2020.
473. **Yuki Kanazawa, Masafumi Harada, Tosiaki Miyati, Takashi Abe, Mitsuharu Miyoshi, Yuki Matsumoto, Hiroaki Hayashi, Yasuhisa Kanematsu *and* Yasushi Takagi :** Chemical Exchange Saturation Transfer Imaging for Atherosclerotic Plaques, *ISMRM Virtual Conference,* Aug. 2020.
474. **Yuki Kanazawa, Masafumi Harada, Mitsuharu Miyoshi, Takashi Abe, Yuki Matsumoto *and* Yasushi Takagi :** Characterization of Brain Tumors using Amide Proton and Nuclear Overhauser Effect at 3 Tesla MR Scanner, *ISMRM Virtual Conference,* Aug. 2020.
475. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Maki Ohtomo, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Calculation of Concentration of Contrast Media, Relaxivity, Extracellular pH and Oxygen Extraction Fraction for Brain Tumor Characterization, *ISMRM 28th Annual Meeting,* Paris, Aug. 2020.
476. **Takashi Asahara, Hiroaki Hayashi, Natsumi Kimoto, Sota Goto, Kazuki Takegami, Tatsuya Maeda, Chenghae Lee, Yuki Kanazawa, Kazuta Yamashita *and* Higashino Kosaku :** How can we perform actual dose measurement? Clinically applicable procedures and its impact, *RSNA2020,* Online, Dec. 2020.
477. **Hitoshi Ikushima, Akihiro Haga, Ando Ken, Kato Shingo, Kaneyasu Yuko, Uno Takashi, Okonogi Noriyuki, Yoshida Kenji, Ariga Takuro, Isohashi Fumiaki, Harima Yoko, Kanemoto Ayae, Ii Noriko, Wakatsuki Masaru *and* Ohno Tatsuya :** Prediction of survival in cervical cancer patients treated with chemoradiotherapy by imaging analysis using artificial intelligence -A multi-institutional survey study of Japanese Radiation Oncology Study Group (JROSG)-, *The 62nd annual meeting of the Japan Society of gynecologic oncology, International Session,* Jan. 2021.
478. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Simultaneous Quantitative Calculation of Concentration of Contrast Agent, Relaxivity, and Extracellular pH Map, *Japanese Journal of Radiological Technology,* Apr. 2020.
479. **芳賀 昭弘 :** 高精度放射線治療におけるAI/レディオミクス:画像の標準化とレディオミクス, *第33回高精度放射線外部照射部会学術大会 WEB開催,* 2020年5月.
480. **下村 泰生, 芳賀 昭弘 :** ルジャンドル関数による人体表現, *第33回高精度放射線外部照射部会学術大会 WEB開催,* 2020年5月.
481. **芳賀 昭弘 :** CT画像の標準化におけるマルチエネルギーCTの可能性, *第119回⽇本医学物理学会学術⼤会シンポジウムWEB開催,* 2020年5月.
482. **Shimomra Taisei *and* Akihiro Haga :** Cone-beam CT image reconstruction with spherical harmonics, *第119回⽇本医学物理学会学術⼤会WEB開催,* May 2020.
483. **長谷川 侑, 芳賀 昭弘, 坂田 洞察, 金澤 裕樹, 富永 正英, 佐々木 幹治, 今江 禄一, 中川 恵一 :** Estimation of X-ray energy spectrum for CT scanner from percentage depth dose measurement, *第119回⽇本医学物理学会学術⼤会WEB開催,* 2020年5月.
484. **Takashi Asahara, Hiroaki Hayashi, Tatsuya Maeda, Yuki Kanazawa, Satoshi Imajo, Miho Numata *and* Mitsugi Honda :** Dual-type active dosimeter having a novel algorithm to identify incident angles of X-rays, *第76回日本放射線技術学会総会学術大会WEB開催,* May 2020.
485. **Yuki Kinjo, Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Yuki Matsumoto, Takashi Abe, Hiroaki Hayashi, Masaharu Ono, Yoshitaka Bito *and* Akihiro Haga :** Spatially smoothing processing of quantitative values in voxel-based morphometry (VBM) analysis, *第76回日本放射線技術学会総会学術大会WEB開催,* May 2020.
486. **Takahiro Nakamoto, Wataru Takahashi, Akihiro Haga, Satoshi Takahashi, Shigeru Kiryu, Kanabu Nawa, Takeshi Ohta, Sho Ozaki, Yuki Nozawa, Shota Tanaka, Akitake Mukasa *and* Keiichi Nakagawa :** Radiomic-based prediction of malignant glioma grades using preoperative contrast-enhanced T1-weighted and T2-weighted magnetic resonance images, *第119回日本医学物理学会(WEB開催),* May 2020.
487. **楠瀬 賢也, 芳賀 昭弘, 門田 宗之, 石井 亜由美, 伊勢 孝之, 八木 秀介, 山田 博胤, 佐田 政隆 :** 心エコーへのAI応用について, *第26回日本心臓リハビリテーション学会学術集会,* 2020年7月.
488. **隅田 奈美, 原田 雅史, 河野 理, 松元 友暉, 金澤 裕樹, Gonchigsuren Oyundari, 藤田 浩司 :** 運動異常症の安静時 fMRIにおける脳機能ネットワークの検討, *第48回日本磁気共鳴医学会大会Web開催,* 2020年9月.
489. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Takashi Abe, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Which contrast agent is more sensitive to extracellular pH change on brain tumor ?, *JSMRM2020,* Sep. 2020.
490. **金澤 裕樹, 前田 直輝, 原田 雅史, 谷口 陽, 松元 友暉, 阿部 考志, 林 裕晃, 伊藤 公輔, 尾藤 良孝, 芳賀 昭弘 :** Quantitative Parameter Mapping(QPM) を用いたコンポーネント間スピン交換定数の導出, *第48回日本磁気共鳴医学会大会Web開催,* 2020年9月.
491. **生島 仁史, 芳賀 昭弘 :** MRI画像解析による子宮頸癌化学放射線療法後の予後予測-JROSG多施設共同調査研究-, *日本放射線腫瘍学会,* 2020年10月.
492. **工藤 隆治, 芳賀 昭弘, 佐々木 幹治, 外礒 千智, 久保 亜貴子, 川中 崇, 古谷 俊介, 生島 仁史 :** Radiomicsの手法を用いたPETによる舌癌頸部リンパ節転移の予測, *日本放射線腫瘍学会第33回学術大会,* 2020年10月.
493. **楠瀬 賢也, 芳賀 昭弘, 山田 博胤, 西尾 進, 平田 有紀奈, 佐田 政隆 :** 加速する循環器画像領域におけるAI研究の現在と未来, *日本超音波医学会第93回学術集会,* 2020年12月.
494. **下村 泰生, 芳賀 昭弘 :** 第5回レディオミクス研究会:@WEB開催, *レディオミクス研究会(WEB開催),* 2020年7月.
495. **芳賀 昭弘 :** レディオミクス入門, 2021年10月.
496. **Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Syun Kitano, Nagomi Fukuda, Yuki Matsumoto, Hiroaki Hayashi, Kosuke Ito, Yoshitaka Bito *and* Akihiro Haga :** Myelin imaging derived quantitative parameter mapping compared to myelin water fraction, *Proceedings of ISMRM,* **Vol.29,** *No.2828,* 2021.
497. **Naoki Maeda, Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Yuki Matsumoto, Hiroaki Hayashi, Kosuke Ito, Yoshitaka Bito *and* Akihiro Haga :** Derivation of Water Exchange Constants between Components using Quantitative Parameter Mapping (QPM), *Proceedings of ISMRM,* **Vol.29,** *No.3069,* 2021.
498. **Hasegawa Yu, Akihiro Haga, Sakata Dousatsu, Yuki Kanazawa, Masahide Tominaga, Motoharu Sasaki, Imae Toshikazu *and* Nakagawa Keiichi :** Estimation of X-ray Energy Spectrum of Cone-Beam Computed Tomography Scanner Using Percentage Depth Dose Measurements and Machine Learning Approach, *Journal of the Physical Society of Japan,* **Vol.90,** 074801-1-074801-7, 2021.
499. **Kai-Wen Li, Daiyu Fujiwara, Akihiro Haga, Huisheng Liu *and* Li-Sheng Geng :** kV-kV and kV-MV DECT based estimation of proton stopping power ratio - a simulation study, *Physica Medica,* **Vol.89,** 182-192, 2021.
500. **Sae X. Morita, Kenya Kusunose, Akihiro Haga, Masataka Sata, Kohei Hasegawa, Yoshihiko Raita, Muredach P. Reilly, Michael A. Fifer, Mathew S. Maurer *and* Yuichi J. Shimada :** Deep Learning Analysis of Echocardiographic Images to Predict Positive Genotype in Patients With Hypertrophic Cardiomyopathy., *Frontiers in Cardiovascular Medicine,* **Vol.8,** 669860, 2021.
501. **Yohsuke Kanoh, Hitoshi Ikushima, Motoharu Sasaki *and* Akihiro Haga :** Automatic Contour Segmentation of Cervical Cancer using Artificial Intelligence, *Journal of Radiation Research,* **Vol.62,** *No.5,* 934-944, 2021.
502. **Kai-Wen Li, Daiyu Fujiwara, Akihiro Haga, Huisheng Liu *and* Li-Sheng Geng :** Physical density estimations of single- and dual-energy CT using material-based forward projection algorithm: a simulation study., *The British Journal of Radiology,* 2021.
503. **Natsumi Kimoto, Hiroaki Hayashi, Cheonghae Lee, Tatsuya Maeda, Miku Ando, Yuki Kanazawa, Akitoshi Katsumata, Shuichiro Yamamoto *and* Masahiro Okada :** A novel algorithm for extracting soft-tissue and bone images measured using a photon-counting type X-ray imaging detector with the help of effective atomic number analysis, *Applied Radiation and Isotopes,* **Vol.176,** *No.109822,* 12, 2021.
504. **Cheonghae Lee, Hiroaki Hayashi, Natsumi Kimoto, Tatsuya Maeda, Miku Ando, Yuki Kanazawa, Akitoshi Katsumata, Shuichiro Yamamoto *and* Masahiro Okada :** Bone and soft-tissue images extraction through derivation of effective atomic number image using photon-counting detector., *Proceedings of IEEE(MIC),* 5, 2021.
505. **Masahide Tominaga, Yukari Nagayasu, Motoharu Sasaki, Furuta Takuya, Hiroaki Hayashi, Masataka Oita, Yuichi Nishiyama *and* Akihiro Haga :** Influence of distant scatterer on air kerma measurement in the evaluation of diagnostic X-rays using Monte Carlo simulation, *Radiological Physics and Technology,* **Vol.14,** *No.4,* 381-389, 2021.
506. **Hitoshi Ikushima, Akihiro Haga, Ken Ando, Shingo Kato, Yuko Kaneyasu, Takashi Uno, Noriyuki Okonogi, Kenji Yoshida, Takuro Ariga, Fimiaki Isohashi, Yoko Harima, Ayae Kanemoto, Noriko Ii, Masaru Wakatsuki *and* Tatsuya Ohno :** Prediction of out-of-field recurrence after chemoradiotherapy for cervical cancer using a combination model of clinical parameters and magnetic resonance imaging radiomics: a multi-institutional study of the Japanese Radiation Oncology Study Group, *Journal of Radiation Research,* 2021.
507. **Madoka Kohno, ANAYT ULLA, Rina Taniguchi, Akane Ohishi, Kako Hirayama, Yuma Takemura, Shoichiro Takao, Yuki Kanazawa, Yuki Matsumoto, Masafumi Harada, Tomoya Fukawa, Hiro-omi Kanayama, Takayuki Uchida, Toshio Suzuki *and* Takeshi Nikawa :** Daily Dietary Supplementation with Steamed Soybean Improves Muscle Volume and Strength in Healthy People Lacking Exercise., *Journal of Nutritional Science and Vitaminology,* **Vol.68,** *No.6,* 521-526, 2022.
508. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Yo Taniguchi, Masaharu Ono *and* Yoshitaka Bito :** Quantitative parameter mapping of contrast agent concentration and relaxivity and brain tumor extracellular pH, *Scientific Reports,* 2022.
509. **Takaharu Kudoh, Akihiro Haga, Keiko Kudoh, Akira Takahashi, Motoharu Sasaki, Yasusei Kudo, Hitoshi Ikushima *and* Youji Miyamoto :** Radiomics analysis of [18F]-fluoro-2-deoxyglucose positron emission tomography for the prediction of cervical lymph node metastasis in tongue squamous cell carcinoma, *Oral Radiology,* 2022.
510. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Fukuda Nagomi, Kitano Syun, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Brain Tumor Characterization and Assessment using Automatic Detection of Extracellular pH Change, *Proceedings of the 2021 ISMRM & SMRT ANNUAL MEETING & EXHIBITION, No.3749,* 2021.
511. **芳賀 昭弘, 楠瀬 賢也 :** 超音波画像解析, *日本放射線技術学会雑誌,* **Vol.77,** *No.12,* 1479-1484, 2021年12月.
512. **金澤 裕樹 :** ISMRM 2021 Online に参加して, *映像情報メディカル増刊号 ROUTIN CLINICAL MRI 2022 BOOK53,* **Vol.53,** *No.14,* 42-47, 2021年12月.
513. **芳賀 昭弘 :** Dual energy CTの最前線, *医学物理,* **Vol.41,** *No.Sup4,* 1-6, 2021年12月.
514. **Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Syun Kitano, Nagomi Fukuda, Yuki Matsumoto, Hiroaki Hayashi, Kosuke Ito, Yoshitaka Bito *and* Akihiro Haga :** Myelin imaging derived quantitative parameter mapping compared to myelin water fraction, *ISMRM 29th Annual Meeting,* Online, May 2021.
515. **Naoki Maeda, Yuki Kanazawa, Masafumi Harada, Yo Taniguchi, Yuki Matsumoto, Hiroaki Hayashi, Kosuke Ito, Yoshitaka Bito *and* Akihiro Haga :** Derivation of Water Exchange Constants between Components using Quantitative Parameter Mapping (QPM), *ISMRM 29th Annual Meeting,* Online, May 2021.
516. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Yo Taniguchi, Masaharu Ono *and* Yoshitaka Bito :** Brain Tumor Characterization and Assessment using Automatic Detection of Extracellular pH Change, *ISMRM 29th Annual Meeting,* Online meeting, May 2021.
517. **Cheonghae Lee, Hiroaki Hayashi, Natsumi Kimoto, Tatsuya Maeda, Miku Ando, Yuki Kanazawa, Akitoshi Katsumata, Shuichiro Yamamoto *and* Masahiro Okada :** Bone and soft-tissue images extraction through derivation of effective atomic number image using photon-counting detector., *IEEE(MIC),* On-line meeting, Oct. 2021.
518. **Cheonghae Lee, Hiroaki Hayashi, Natsumi Kimoto, Tatsuya Maeda, Miku Ando, Yuki Kanazawa, Akitoshi Katsumata, Shuichiro Yamamoto *and* Masahiro Okada :** Bone and soft-tissue images extraction through derivation of effective atomic number image using photon-counting detector, *IEEE(MIC),* Online, Nov. 2021.
519. **Naoki Maeda, Yuki Kanazawa, Yuki Kinjo, Yuki Matsumoto, Masafumi Harada, Tosiaki Miyati, Hiroaki Hayashi, Mitsuharu Miyoshi, Yasuhisa Kanematsu, Yasushi Takagi *and* Akihiro Haga :** Is it possible to evaluate morphological carotid artery stenosis information using NASCET criteria?, *RSNA2021 (Radiological Society of North America),* Chicago, Nov. 2021.
520. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Yo Taniguchi, Masaharu Ono *and* Yoshitaka Bito :** What Is The Extracellular pH Of Brain Tumors And How Can We Detect Brain Tumors Using Gadolinium-based-contrast Agents?, *RSNA2021 (Radiological Society of North America),* Chicago, Nov. 2021.
521. **Sato Yoshihide, Akihiro Haga, Sakata Dousatsu, Guatelli Susanna *and* Bolst David :** Assessment of Fragmentation Model in Heavy-ion Therapy, *International Conference of Mini- Micro- Nano- Dosimetry,* Wollongong, Australia, Feb. 2022.
522. **Yuki Matsumoto, Koji Fujita, Masafumi Harada, Yuki Kanazawa *and* Miyoshi Mitsuharu :** Characterization of Movement Disorders Using Multimodal Neuroimaging, *European Congress of Radiology,* Wien, Mar. 2022.
523. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa *and* Miyoshi Mitsuharu :** Endogenous/exogenous tracers in CEST for pH measurement at 3T MRI, *European Congress of Radiology,* Wien, Mar. 2022.
524. **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,* Wien, Mar. 2022.
525. **福田 和海, 金澤 裕樹, 松元 友暉, 北野 舜, 佐々木 健太, 芳賀 昭弘, 原田 雅史 :** 可変フリップアングル法を用いたT1値算出における線形近似と非線形近似の比較, *第77回日本放射線技術学会総会学術大会,* 2021年4月.
526. **北野 舜, 金澤 裕樹, 松元 友暉, 福田 和海, 佐々木 健太, 芳賀 昭弘, 原田 雅史 :** T2値およびT2\*値導出に係るMyelin Water Fraction(MWF)値の影響, *第77回日本放射線技術学会総会学術大会,* 2021年4月.
527. **加納 洋介, 生島 仁史, 芳賀 昭弘, 佐々木 幹治 :** 人工知能を用いた子宮頸がんの自動輪郭抽出, *第34回高精度放射線外部照射部会学術大会(WEB開催),* 2021年4月.
528. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** Automatic detection of extracellular pH change in brain tissue using deep learning based semantic segmentation, *Japanese Journal of Radiological Technology,* Apr. 2021.
529. **三好 人正, 芳賀 昭弘, 高山 哲治 :** AI機械学習を用いたRadiogenomics解析による食道癌化学放射線療法感受性・p53変異予測モデルの構築., *第107回日本消化器病学会総会,* 2021年4月.
530. **Shimomura Taisei, Inoue Yuki *and* Akihiro Haga :** X-ray scattering estimation with spherical harmonics in cone-beam computed tomography, *第121回日本医学物理学会,* Apr. 2021.
531. **Fujiwara Daiyu *and* Akihiro Haga :** Multi-material decomposition based on neural network, *第121回日本医学物理学会,* Apr. 2021.
532. **Higuchi Takayuki, Akihiro Haga *and* Yuki Kanazawa :** Estimation of CT X-ray spectrum from reconstructed images using a deep neural network, *第121回日本医学物理学会,* Apr. 2021.
533. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa, Taniguchi Yo, Ono Masaharu *and* Bito Yoshitaka :** 腫瘍悪性度の定量に向けた造影剤濃度，緩和能，細胞外pHの同時算出手法 の開発, *日本分子イメージング学会,* May 2021.
534. **芳賀 昭弘 :** レディオミクス(Radiomics)と生成モデル(Generative model)のアプローチ, *第32回臨床MR脳機能研究会,* 2021年6月.
535. **鴻野 まどか, 内田 貴之, 大石 あかね, 平山 楓子, 竹村 祐馬, 髙尾 正一郎, 金澤 裕樹, 松元 友暉, 原田 雅史, 榊原 伊織, 鈴木 利雄, 二川 健 :** 蒸し大豆食品の継続摂取が運動不足の健常人の筋量や筋力に及ぼす影響, *第75回日本栄養・食糧学会大会,* 2021年7月.
536. **生島 仁史, 加納 洋介, 佐々木 幹治, 芳賀 昭弘 :** 深層学習を用いた子宮頸がん肉眼的腫瘍体積自動抽出, *第63回日本婦人科腫瘍学会,* 2021年7月.
537. **北野 舜, 金澤 裕樹, 原田 雅史, 松元 友暉, 福田 和海, 林 裕晃, 谷口 陽, 芳賀 昭弘 :** Myelin Water Fraction(MWF)におけるT2\* cut-off値の検討, *第49回日本磁気共鳴医学会大会,* 2021年9月.
538. **池光 捺貴, 金澤 裕樹, 原田 雅史, 松元 友暉, 伊藤 公輔, 谷口 陽, 尾藤 良孝, 芳賀 昭弘 :** 白質領域に対する非剛体処理に伴う数値解析の影響, *第49回日本磁気共鳴医学会大会,* 2021年9月.
539. **福田 和海, 金澤 裕樹, 松元 友暉, 北野 舜, 芳賀 昭弘, 原田 雅史 :** VFA法における多変量正規分布の確率密度関数を用いたB1補正手法の提案, *第49回日本磁気共鳴医学会大会,* 2021年9月.
540. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa *and* Miyoshi Mitsuharu :** A pilot study of extracellular pH measurement using iopamidol acido-chemical exchange transfer imaging on a 3T MRI, *JSMRM2021,* Sep. 2021.
541. **Akinari Kasai, Jinsei Miyoshi, Akihiro Haga, Takashi Kawanaka, Koichi Okamoto, Naoki Muguruma, Yasushi Sato *and* Tetsuji Takayama :** CT-based AI radiomics model for predicting complete response and progression free survival of chemoradiothearapy in ESCC., *第80回日本癌学会学術総会,* Oct. 2021.
542. **兼松 康久, 金澤 裕樹, 島田 健司, 曽我部 周, 宮本 健志, 石原 学, 四方 英二, 山口 泉, 多田 恵曜, 山本 雄貴, 山本 伸昭, 原田 雅史, 髙木 康志 :** CEST MRIを用いた頚動脈プラーク診断 Chemical exchange saturation transfer MRI for carotid plaque imaging, *NMC Case Report Journal,* 2021年10月.
543. **芳賀 昭弘 :** 物理学とAI・機械学習, *第34回日本放射線腫瘍学会シンポジウム,* 2021年11月.
544. **工藤 隆治, 工藤 景子, 生島 仁史, 芳賀 昭弘, 高橋 章, 宮本 洋二 :** 片側頸部を標的とした強度変調放射線治療における線量評価:線量集中性と対側頸部・顎 骨への吸収線量について, *第19 回中国四国口腔癌研究会学術集会,* 2021年11月.
545. **林 裕晃, 前田 達哉, 淺原 孝, 後藤 聡汰, 竹上 和希, 李 青海, 安藤 未来, 金澤 裕樹, 生島 仁史, 岡崎 徹, 橋詰 拓弥 :** ディスポ型自作直腸線量計を用いた子宮頸がん治療における線量の実測, *第3回日本放射線安全管理学会・日本保健物理学会合同大会,* 2021年12月.
546. **松元 友暉, 原田 雅史, 金澤 裕樹, 三好 光晴 :** 3T-MRI装置におけamide-proton transfer イメージングの臨床有用性, *第12回 日本安定同位体 生体ガス医学応用学会,* 2021年12月.
547. **山口 夏美, 楠瀬 賢也, 芳賀 昭弘, 平田 有紀奈, 西尾 進, 山田 博胤, 佐田 政隆 :** 人工知能を用いた左室壁運動異常の検出, *第86回日本循環器学会学術集会,* 2022年3月.
548. **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.
549. **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,* **Vol.31,** *No.3263,* 2022.
550. **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,* **Vol.31,** *No.3052,* 2022.
551. **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,* **Vol.31,** *No.3218,* 2022.
552. **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,* **Vol.31,** *No.4285,* 2022.
553. **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,* **Vol.49,** *No.5,* 2022.
554. **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.
555. **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.
556. **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,* **Vol.67,** *No.15,* 155008, 2022.
557. **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.
558. **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,* **Vol.67,** *No.15,* 225001, 2022.
559. **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,* **Vol.156,** *No.110525,* 1-9, 2022.
560. **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,* **Vol.32,** *No.1519,* 2023.
561. **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,* **Vol.32,** *No.2982,* 2023.
562. **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, *Proceedings of ISMRM,* **Vol.32,** *No.2630,* 2023.
563. **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,* **Vol.208,** 110932, 2023.
564. **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.
565. **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.
566. **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.
567. **Takayuki Higuchi *and* Akihiro Haga :** X-ray energy spectrum estimation based on a virtual computed tomography system, *Biomedical Physics & Engineering Express,* 025002, 2023.
568. **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,* **Vol.203,** 110635, 2023.
569. **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.
570. **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, *Proceedings of the 2022 ISMRM & SMRT ANNUAL MEETING & EXHIBITION, No.3783, 2022,* 2022.
571. **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.
572. **Yuki Matsumoto, Koji Fujita, Masafumi Harada, Yuki Kanazawa *and* Miyoshi Mitsuharu :** Characterization of Movement Disorders Using Multimodal Neuroimaging, *European Congress of Radiology (EPOS),* 2022.
573. **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,* **Vol.Epub ahead of print,** Oct. 2022.
574. **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,* **Vol.54,** *No.14,* 2022年12月.
575. **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,* **Vol.42,** *No.4,* 1-3, 2022年12月.
576. **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.
577. **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.
578. **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),* **Vol.42,** *No.Sup1,* 126, Yokohama, Apr. 2022.
579. **Shimomura Taishi, Inoue Yuki, Fujiwara Daiyu *and* Akihiro Haga :** A Generative Cone-Beam Computed Tomography Model, *International Conference on Radiological Physics and Technology (ICRPT),* **Vol.42,** *No.Sup1,* 126, Yokohama, Apr. 2022.
580. **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),* **Vol.42,** *No.Sup1,* 126, Yokohama, Apr. 2022.
581. **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.
582. **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.
583. **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.
584. **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.
585. **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.
586. **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.
587. **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.
588. **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.
589. **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.
590. **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.
591. **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.
592. **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.
593. **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.
594. **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.
595. **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.
596. **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.
597. **Natsumi Yamaguchi, Yoshitaka Kosaka, Akihiro Haga, Masataka Sata *and* Kenya Kusunose :** Artificial intelligence-assisted interpretation of systolic function by echocardiogram, *Open Heart,* **Vol.10,** *No.2,* e002287., 2023.
598. **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,* **Vol.113,** 102648, 2023.
599. **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.
600. **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,* **Vol.28,** *No.5,* 671-680, 2023.
601. **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.
602. **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,* **Vol.6,** *No.1,* 1-7, 2024.
603. **Akihiro Haga :** Quantum annealing-based computed tomography using variational approach for a real-number image reconstruction, *Physics in Medicine and Biology,* **Vol.69,** *No.4,* 2024.
604. **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,* **Vol.14,** *No.1,* 2039, 2024.
605. **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,* **Vol.17,** *No.1,* 93-102, 2024.
606. **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,* **Vol.17,** *No.1,* 337-345, 2024.
607. **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,* **Vol.Accepted,** 2024.
608. **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, No.EPOS,* C-11117, 2024.
609. **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.
610. **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.
611. **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.
612. **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),* **Vol.43,** *No.Sup1,* 153-154, Yokohama, Apr. 2023.
613. **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.
614. **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.
615. **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.
616. **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.
617. **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.
618. **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.
619. **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.
620. **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.
621. **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.
622. **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.
623. **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.
624. **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.
625. **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.
626. **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.
627. **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,* **Vol.12925,** 129252M, Feb. 2024.
628. **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.
629. **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.
630. **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.
631. **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.
632. **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.
633. **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.
634. **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.
635. **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.
636. **Yuki Matsumoto, Masafumi Harada, Yuki Kanazawa *and* Miyoshi Mitsuharu :** AcidoCEST contrast media exhibiting pH dependence on a 3T clinical MRI system, *JSMRM2023,* Sep. 2023.
637. **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.
638. **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.
639. **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.
640. **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.
641. **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.
642. **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.
643. **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.
644. **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.
645. **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.
646. **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.
647. **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,* **Vol.65,** *No.4,* 359-366, 2024.
648. **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.
649. **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., *Proceedings of ISMRM,* **Vol.33,** 2038, 2024.
650. **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,* **Vol.33,** 2933, 2024.
651. **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,* **Vol.69,** *No.9,* 2024.
652. **Atsushi TAKEYA, Keiichiro Watanabe *and* Akihiro Haga :** Fine structural human phantom in dentistry and instance tooth segmentation, *Scientific Reports,* **Vol.14,** *No.12630,* 2024.
653. **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,* **Vol.66,** *No.9,* 1617-1624, 2024.
654. **Akita Keitaro, Kusunose Kenya, Akihiro Haga, Shimomura Taisei, Kosaka Yoshitaka, Ishiyama Katsunori, Hasegawa Kohei, Fifer A. Michael, Maurer S. Mathew *and* Shimada J. Yuichi :** 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,* **Vol.11,** *No.23,* 1-10, 2024.
655. **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,* 2024.
656. **Arce P, Archer W J, Arsini L, Bagulya A., Bolst D, Brown M C J, Caccia B, Chacon A, Cirrone A P G, es-Giraldo A Cort M, Cutajar D, Cuttone G, Dondero P, Dotti A, Faddegon B, Fattori S, Fedon C, Guatelli S *and* Akihiro Haga :** 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,* 2024.
657. **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.
658. **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.
659. **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.
660. **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.
661. **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.
662. **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.
663. **SATO Yoshihide, Sakata Dousatsu, Bolst David, Simpson Edward, Guatelli Susanna *and* Akihiro Haga :** Validation of fragment cross section with Light Ion QMD model, *62nd Annual PTCOG conference,* Jun. 2024.
664. **Iwasaki Ren, Kusunose Kenya, Tanaka Hidekazu, Miyake Makoto, Moriuchi Kenji, Takeda Yasuharu, 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.
665. **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.
666. **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.
667. **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.
668. **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.
669. **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.
670. **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.
671. **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.
672. **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.
673. **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.
674. **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.
675. **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.