CURRICULUM VITAE

Personal Information

Title	**Program-specific Associate Professor**
Name	**Mizuho Nishio**
Degree	**MD, PhD**
Country	**Japan**
Affiliation	**Kobe University**
Department	**Department of Radiology**

Educational Background

- 2009 – 2012 PhD (Medicine), Department of Radiology, Kobe University Graduate School of Medicine, Japan
- 1998 – 2004 MD, Kobe University, Japan

Professional Career

- 2004 – 2005 Resident at Kobe Rosai Hospital
- 2005 – 2006 Resident at Kobe University Hospital
- 2006 – 2010 Fellow at Nishi Kobe Medical Center
- 2010 – 2010 Fellow and Board-certified Radiologist at Kobe University Hospital
- 2010 – 2010 Chief doctor and Board-certified Radiologist at Kaibara Hospital
- 2011 – 2012 Fellow and Board-certified Radiologist at Kobe University Hospital
- 2012 – 2014 Research Assistant Professor at Kobe University Graduate School of Medicine
- 2014 – 2016 Fellow and Board-certified Radiologist at Institute of Biomedical Research and Innovation
- 2016 – 2019 Program-specific Assistant Professor at Kyoto University
- 2019 – 2023 Program-specific Assistant Professor at Kobe University
- 2023 – 2023 Assistant Professor at Kobe University
- 2023 – pres. Program-specific Associate Professor at Kobe University

Research Field

Radiology, Medical image analysis, deep learning, Machine learning, Computer vision

Main Scientific Publications

1. Kurata Y, **Nishio M**, Moribata Y, et al. Development of deep learning model for diagnosing muscle-invasive bladder cancer on MRI with vision transformer. Heliyon. 2024;10(16):e36144.
2. Kurata Y, **Nishio M**, et al. Automatic segmentation of uterine endometrial cancer on multi-sequence MRI using a convolutional neural network. Sci Rep. 2021 Jul 14;11(1):14440.
3. Matsumoto YK, Himoto Y, **Nishio M**, et al. Nodal infiltration in endometrial cancer: a prediction model using best subset regression. Eur Radiol. 2024;34(5):3375-3384.
4. Matsuo H, **Nishio M**, Matsunaga T, et al. Exploring Multilingual Large Language Models for Enhanced TNM Classification of Radiology Report in Lung Cancer Staging. Cancers (Basel). 2024;16(21):3621.
5. **Nishio M**, Matsunaga T, Matsuo H, et al. Fully automatic summarization of radiology reports using natural language processing with large language models. 2024; 46:101465
6. Matsunaga T, Kono A, **Nishio M**, et al. Development and web deployment of prediction model for pulmonary arterial pressure in chronic thromboembolic pulmonary hypertension using machine learning. PLoS One. 2024;19(4):e0300716.

7. Miyazaki A, Ikejima K, **Nishio M**, et al. Computer-aided diagnosis of chest X-ray for COVID-19 diagnosis in external validation study by radiologists with and without deep learning system. Sci Rep. 2023;13(1):17533.
8. **Nishio M**, Matsuo H, et al. Label Distribution Learning for Automatic Cancer Grading of Histopathological Images of Prostate Cancer. Cancers (Basel). 2023;15(5):1535.
9. Noguchi S, **Nishio M**, et al. Deep learning-based algorithm improved radiologists' performance in bone metastases detection on CT. Eur Radiol. 2022;32(11):7976-7987.
10. Matsuo H, **Nishio M**, et al. Unsupervised-learning-based method for chest MRI-CT transformation using structure constrained unsupervised generative attention networks. Sci Rep. 2022;12(1):11090.