

## 本研究に対する業績

### Journal:

#### 3.章

1. O. Tsujii, M. T. Freedman, and S. K. Mun, "Classification of Microcalcifications in Digital Mammograms using Trend-Oriented Radial Basis Function Neural Network," *Pattern Recognition*, vol. 32 (5), pp. 891-903, 1999.

#### 4.1.章

2. O. Tsujii, M. T. Freedman, and S. K. Mun, "Automated Segmentation of Anatomic Regions in Chest Radiographs using Adaptive-Sized Hybrid Neural Network," *Med. Phys.*, 25 (6), pp. 998-1007, June 1998.

#### 4.2.章

3. O. Tsujii, M. T. Freedman, and S. K. Mun, "Lung contour detection in chest radiographs using 1-D convolution neural networks," *Electronic Imaging*, 8(1), pp. 46-53, January 1999.

#### 4.3.章

4. O. Tsujii, M. T. Freedman, and S. K. Mun, "Anatomic Region-Based Dynamic Range Compression for Chest Radiographs Using Warping Transformation of Correlated Distribution," *IEEE Trans. Med. Img.*, vol. 17 (3), pp. 407-418, 1998.

### Proceeding:

1. O. Tsujii, A. Hasegawa, Y. C. Wu, S. C. B. Lo, M. T. Freedman, and S. K. Mun, "Classification of Microcalcifications in Digital Mammograms for the Diagnosis of Breast Cancer," *SPIE Medical Imaging*, Vol. 2710, pp. 794-804, 1996.
2. O. Tsujii, M. T. Freedman, and S. K. Mun, "Classification of Clustered Microcalcifications in Digital Mammograms in the Diagnosis of Breast Cancer," *Radiology*, 82<sup>nd</sup> Scientific Assembly and Annual Meeting, pp. 530, 1996.

3. S. B. Lo, H. Li, J. Lin, A. Hasegawa, O. Tsujii, M. T. Freedman, and S. K. Mun, "Detection of clustered microcalcifications using fuzzy modeling and convolution neural network," *SPIE Medical Imaging*, Vol. 2710, pp. 8-15, 1996.
4. O. Tsujii, M. T. Freedman, and S. K. Mun, "Automated Segmentation of Anatomic Regions in Chest Radiographs using Adaptive-Sized Hybrid Neural Network," *SPIE Medical Imaging*, Vol. 3034, pp. 802-811, 1997.
5. O. Tsujii, M. T. Freedman, and S. K. Mun, "Anatomic Region Based Dynamic Range Compression for Chest Radiographs Using Warping Transformation of Correlated Distribution," *SPIE Medical Imaging*, Vol. 3034, pp. 812-821, 1997.
6. C. Y. Wu, O. Tsujii, M. T. Freedman, and S. K. Mun, "Image feature analysis for classification of microcalcifications in digital mammography: neural networks and genetic algorithms," *SPIE Medical Imaging*, Vol. 3034, pp. 501-509, 1997.
7. O. Tsujii, M. T. Freedman, and S. K. Mun, "Anatomic Region Based Dynamic Range Compression for Chest Radiographs Using Warping Transformation of Correlated Distribution," *Proceeding of the 5<sup>th</sup> International Conference on IMAC*, pp. 105-114, 1997.

Award:

1. O. Tsujii, A. Hasegawa, Y. C. Wu, S. C. B. Lo, M. T. Freedman, and S. K. Mun, "Classification of Microcalcifications in Digital Mammograms for the Diagnosis of Breast Cancer," *SPIE Medical Imaging*, Vol. 2710, pp. 794-804, 1996. は Image Processing 部門 Poster で Cum Laude を受賞。
2. O. Tsujii, M. T. Freedman, and S. K. Mun, "Anatomic Region Based Dynamic Range Compression for Chest Radiographs Using Warping Transformation of Correlated Distribution," *SPIE Medical Imaging*, Vol. 3034, pp. 812-821, 1997. は Image Processing 部門 Poster で Honorable Mention を受賞。