## ■国際会議

## 国際会議論文(査読あり)全111編

1. A. Shimizu, J. Hasegawa, J. Toriwaki

A New Version of Computer Aided Screening System in Chest Photofluorograms

Proc. of IEEE Workshop on Biomedical Image Analysis, pp.307-316 (1994)

2. A. Shimizu, X. Zhou, J. Hasegawa, J. Toriwaki

Automated Construction of Three Dimensional Image Processing Procedures by Pictorial Example with Application to Medical Images

Proc. of 18th Annual International conference of the IEEE Engineering in Medicine and Biology Society No.682 (1996)

3. X. Zhou, A. Shimizu, J. Hasegawa, J. Toriwaki

Three Dimensional Image Processing Expert System 3D-IMPRESS and Its Application to Medical Images Proc. of ICBME'97, ISBMRE'97 and JCCCAS'97, pp.58-61 (1997)

4. C. Song, A. Shimizu, T. Saito, J. Toriwaki, J. Hasegawa, M. Mori

Automated Extraction of Ridge Shadows in Noisy Gray Images by Using an Active Contour Model with Application to Medical X-Ray Images

Proc. of the 4th Japan-Korea Joint Workshop on Computer Vision, pp.139-144 (1998)

5. A. Shimizu, J. Hasegawa, J. Toriwaki, T. Suzuki

Reduction of False Positive in Computer Diagnosis of Chest X-ray Images Using Interval Change Detection Between Two Images

Proc. of the First International Workshop on Computer-Aided Diagnosis, pp.83-88 (1998)

6. T. Hamada, A. Shimizu, T. Saito, J. Hasegawa, J. Toriwaki

Automatic Acquisition of Image Processing Procedures from Sample Sets of Classified Images Based on Requirement of Misclassification Rate

Proc. of the Second International Conference, Discovery Science '99, *Lecture Notes in Computer Science* Vol. 1721, pp.323-325 (1999)

7. Hiroshi Sakai, Akinobu Shimizu, Yishihiro Hagihara, Hidefumi Kobatake, Shigeru Nawano and Hideya Takeo Improved Detection Method of Tumor Candidates on Digital Mammograms

Proc. of International Workshop on Digital Mammography, pp.363-369 (2000)

8. T. Hamada, A. Shimizu, T. Saito, J. Hasegawa, and J. Toriwaki:

Comparative Study of Automatic Acquisition Methods of Image Processing Procedures.

Proc. of Third International Conference, Discovery Science 2000, *Lecture Notes in Computer Science* Vol. 1967, pp.311-314 (2000)

9. T. Hamada, A. Shimizu, J. Hasegawa, J. Toriwaki

Automated Construction of Image Processing Procedure based on Misclassification Condition

Proc. of 15th International Conference on Pattern Recognition, Vol.2, pp.430-433 (2000)

10. Hidefumi Kobatake, Wei Jun, Yukiyasu Yoshinaga, Yoshihiro Hagihara and Akinobu Shimizu

Nonlinear Adaptive Convergence Index Filters and Their applications

Proc. of International Conference of Pattern Recognition, Vol.3, pp.526-529 (2000)

11. Lin-Lin Huang, Akinobu Shimizu, Yoshihiro Hagihara and Hidefumi Kobatake

Face detection from cluttered images using polynomial neural network

Proc. of International Conference on Image Processing, pp.669-672 (2001)

12. Baigalmaa Tsagaan, Akinobu Shimizu, Hidefumi Kobatake Kunihisa Miyakawa and Yoshinori Hanzawa Segmentation of kidney by using a deformable model

Proc. of International Conference on Image Processing, pp.1059-1062 (2001)

13. Xiang-Rong Zhou; Shimizu, A.; Hasegawa, J.; Toriwaki, J.; Hara, T.; Fujita, H.

Vision expert system 3D-IMPRESS for automated construction of three dimensional image processing procedures Proc. of Seventh International Conference on Virtual Systems and Multimedia, pp.527-536 (2001)

14. Toshiharu Ezoe, Hotaka Takizawa, Shinji Yamamoto, Akinobu Shimizu, Tohru Matsumoto, Yukio Tateno, Takeshi Iimura, and Mitsuomi Matsumoto

Automatic detection method of lung cancers including ground-glass opacities from chest x-ray CT images Proc. of SPIE, Vol.4684, pp.1672-1680 (2002)

15. R.Lipikorn, A.Shimizu, Y.Hagihara, H.Kobatake

3D Modified Exoskeleton and Its Applications for Shape Recognition

Proc. of ICASSP, pp.IV-3568 - IV-3571 (2002)

16. J.Wei, S.Furuya, Y.Hagihara, M.Nemoto, A.Shimizu, H.Kobatake, S.Nawano

Optimal feature set for detection of breast tumors on mammograms - preliminary study -

Proc. of International Workshop on Digital Mammography, pp.328-330 (2002)

17. J.Wei, Y.Hagihara, A.Shimizu, H.Kobatake

Optimal image feature set for detecting lung nodules on chest X-ray images

Proc. of Computer Assisted Radiology and Surgery, pp.706-711 (2002)

18. Y.Hanzawa, A.Shimizu, H.Kobatake, K.Miyakawa

Development of a computer aided diagnosis system for three dimensional breast CT images

Proc. of Computer Assisted Radiology and Surgery, pp.788-793 (2002)

19. Lin-Lin Huang, Akinobu Shimizu and Hidefumi Kobatake

Face Detection using a Modified Radial Basis Function Neural Network

Proc. of International Conference of Pattern Recognition, Vol.II, pp.342-345 (2002)

20. B. Tsagaan, A. Shimizu, H. Kobatake and K. Miyakawa

An Automated Segmentation Method of Kidney Using Statistical Information

Proc. of Medical Image Computing and Computer-Assisted Intervention Part I, *Lecture Notes in Computer Science* Vol.2488, pp.556-563 (2002)

21. Rajalida Lipikorn, Akinobu Shimizu and Hidefumi Kobatake

A Modified Exoskeleton and a Hausdorff Distance Matching Algorithm for Shape-Based Object Recognition

Proc. of International Conference on Imaging Science, Systems, and Technology, Vol.2, pp.507-511 (2003)

22. A. Shimizu, T. Hitosugi, J.-Y. Nakagawa, M. Tamura, H. Kobatake

Development of computer-aided diagnosis system for 3D multi-detector row CT images of livers

Proc. of Computer Assisted Radiology and Surgery, pp.1055-1062 (2003)

23. Lin-Lin Huang, Akinobu Shimizu and Hidefumi Kobatake

Classification-Based Face Detection Using Gabor Filter Features

Proc. of the Sixth Int. Conf. on Automatic Face and Gesture Recognition, pp.397-402 (2004)

24. LinLin Huang, Akinobu Shimizu, Hidefumi Kobatake

A multi-expert approach for robust face detection

Proc. of 17th International Conference on Pattern Recognition (2004)

25. X.-B. Hu, A. Shimizu, H. Kobatake, S. Nawano

Analysis of multi-phase computed tomography using ICA mixture model

Proc. of APCCM 2004, pp.61-67 (2004)

26. X.-B. Hu, A. Shimizu, H. Kobatake, S. Nawano

Applying ICA mixture analysis for segmenting liver from multi-phase abdominal CT images

Proc. of MIAR2004, pp.54-61 (2004)

27. Daisuke HIRAI, Mitsutaka NEMOTO, Akinobu SHIMIZU, Hidefumi KOBATAKE, and Shigeru NAWANO

Improvement of malignant tumor detection system based on the information arising from mammographic asymmetries Proc. of International Workshop on Digital Mammography, pp.677-684 (2004)

28. Mitsutaka NEMOTO, Akinobu SHIMIZU, Hidefumi KOBATAKE, Shigeru NAWANO

Two-stage method for feature selection from a large number of features for CAD system classifier

Proc. of International Workshop on Digital Mammography, pp.590-594 (2004)

29. Akinobu Shimizu, Yoshie Matsuo, and Hidefumi Kobatake

Registration Method for Interval Change Detection between Two Chest X-ray Images with Different Rotation Angles Proc. of Computer Assisted Radiology and Surgery, pp.917-922 (2004)

30. Akinobu Shimizu and Shigeru Nawano

Preliminary report of competition for liver region extraction algorithms from three-dimensional CT images

Proc. of Computer Assisted Radiology and Surgery, pp.1361 (2004)

31. Rajalida Lipikorn, Akinobu Shimizu and Hidefumi Kobatake

Three-Dimensional Object Recognition Using a Modified Exoskeleton and Extended Hausdorff Distance Matching Algorithm

Proc. Int. Conf. On Image Analysis and Recognition, pp.697-704 (2004)

32. Xuebin Hu, Akinobu Shimizu, Hidefumi Kobatake and Shigeru Nawano

Independent Component Analysis of Four-Phase Abdominal CT Images

Proc. Int. Conf. on Medical Image Computing and Computer-Assisted Intervention, *Lecture Notes in Computer Science*, Vol.3217. pp.916-924 (2004)

33. Mitsutaka Nemoto, Akinobu Shimizu, and Hidefumi Kobatake

Classifier ensemble for mammography CAD system combining feature selection with ensemble learning

Proc. of Computer Assisted Radiology and Surgery, pp.1047-1051 (2005)

34. Akinobu Shimizu, Takahiro Kawamura, and Hidefumi Kobatake

Proposal of computer-aided detection system for three dimensional CT images of liver cancer

Proc. of Computer Assisted Radiology and Surgery, pp.1157-1162 (2005)

35. C. Yao, A. Shimizu, X. Hu, and H. Kobatake

A robust location detection algorithm for organs in three dimensional medical images

Proc. of Computer Assisted Radiology and Surgery, pp.1273 (2005)

36. Akinobu Shimizu, Takaya Ikegami, Tomohisa Yanagita, and Hidefumi Kobatake

Simultaneous segmentation of multi-organ in three dimensional abdominal CT images

Proc. of Computer Assisted Radiology and Surgery, pp.1275 (2005)

37. EzawaH. KobatakeH. ShimizuA. IwaseH. HayakawaM. YamamotoS. KandatsuS. ShizuK. ShiotaniS. YamazakiK. Autopsy imaging in Japan and computer aided diagnosis

Abstract of 6th International Symposium on Advances in Legal Medicine(ISALM), page L10 (2005)

38. Daniel Smutek, Akinobu Shimizu, Hidefumi Kobatake, Shigeru Nawano, Ludvik Tesar

Texture Analysis of Hepatocellular Carcinoma and Liver Cysts in CT Images

Proc. of SPPRA2006, 520-017, pp.56-59 (2006)

39. M. Nemoto, A. Shimizu, H. Kobatake, H. Takeo, and S. Nawano

Study on Cascade Classification in Abnormal Shadow Detection for Mammograms

Proc. of International Workshop on Digital Mammography, pp.324-331 (2006)

40. C. Yao, T. Wada, A. Shimizu, H. Kobatake, S. Nawano

Simultaneous location detection of multi-organ by atlas-guided eigenorgan method in volumetric medical images *International Journal of Computer Assisted Radiology and Surgery*, Vol.1, Supplement1, pp.42-45 (2006)

41. A. Shimizu, R. Ohno, T. Ikegami, H. Kobatake, S. Nawano, D. Smutek

Multi-organ segmentation in three dimensional abdominal CT images

International Journal of Computer Assisted Radiology and Surgery, Vol.1, Supplement1, pp.76-78 (2006)

42. A. Shimizu, T. Kawamura, Y. Mekada, Y. Hayashi, D. Deguchi, S. Nawano

Preliminary report of CAD system competition for liver cancer extraction from 3D CT images and fusion of the CADs *International Journal of Computer Assisted Radiology and Surgery*, Vol.1, Supplement1, pp.525-526 (2006)

43. M. Nemoto, S. Takeuchi, A. Shimizu, H. Kobatake, H. Takeo, S. Nawano

Improvement of computer-aided detection system for mammogram by interval change analysis

International Journal of Computer Assisted Radiology and Surgery, Vol.1, Supplement1, pp.517-518 (2006)

44. Daniel Smutek, Akinobu Shimizu, Ludvik Tesar, Hidefumi Kobatake, Shigeru Nawano, Pavel Maruna Developing System for Remote Clinical Evaluation of Computed Tomography and B-Mode Ultrasound Images The Second IASTED International Conference on TELEHEALTH (TELEHEALTH2006), pp.86-91 (2006)

45. Daniel Smutek, Akinobu Shimizu, Ludvik Tesar, Hidefumi Kobatake, Shigeru Nawano, Stepan Svacina Automatic Internal Medicine Diagnostics Using Statistical Imaging Methods

CBMS 2006, the 19th IEEE International Symposium on Computer-Based Medical Systems, pp.405-410 (2006)

46. Daniel Smutek, Akinobu Shimizu, Ludvik Tesar, Hidefumi Kobatake, Shigeru Nawano

Artificial Intelligence Methods Application in Liver Diseases Classification from CT Images

The Sixth International Workshop on Pattern Recognition in Information Systems PRIS-2006, pp.146-155 (2006)

47. Ludvik Tesar, Akinobu Shimizu, Daniel Smutek, Hidefumi Kobatake

Gaussian mixture model for texture-based medical image analysis

Conference on MODELLING, SIMULATION, AND OPTIMIZATION - MSO 2006, pp.8-12 (2006)

48. Tesar L., Smutek D., Shimizu A., Kobatake H.

Medical Image Segmentation Using Co-occurrence Matrix Based Texture Features Calculated on Weighted Region. Proc. of the Third IASTED International Conference on Advances in Computer Science and Technology, pp. 243-248 (2007)

49. Tesar L., Smutek D., Shimizu A., Kobatake H.

3D Extension of Haralick Texture Features for Medical Image Analysis

Proc. of the Fourth IASTED International Conference on Signal Processing, Pattern Recognition, and Applications, pp. 350-355 (2007)

50. Akinobu Shimizu, Hironori Sakurai, Hidefumi Kobatake, Shigeru Nawano, Daniel Smutek

Improvement of a multi-organ extraction algorithm in an abdominal CAD system based on feature in neighbouring regions

International Journal of Computer Assisted Radiology and Surgery, Vol.2, Supplement1, s386-388 (2007)

51. Mitsutaka Nemoto, Soshi Honmura, Akinobu Shimizu, Hidefumi Kobatake, Shigeru Nawano Detection of architectural distortion on mammograms based on characteristics of the mammary grand International Journal of Computer Assisted Radiology and Surgery, Vol.2, Supplement1, s514 (2007)

52. Tianyi Gui, Lin-Lin Huang, Akinobu Shimizu

Liver Segmentation for CT Images using an Improved GGVF-Snake

Proc. of International Conference on Instrumentation, Control and Information Technology, pp.676-681 (2007)

53. Daisuke Furukawa, Akinobu Shimizu, and Hidefumi Kobatake

Automatic Liver Segmentation Method based on Maximum A Posterior Probability Estimation and Level Set Method Proc. of Workshop on 3D segmentation in the clinic: A grand challenge, pp.117-124, 2007

54. Akinobu Shimizu, Motoki Kubo, Daisuke Furukawa, Hidefumi Kobatake, Shigeru Nawano: Abdomen standardization

- for multi-organ segmentation of CT volumes, International Journal of Computer Assisted Radiology and Surgery, Vol.3, Supplement1, s195-s196, 2008
- 55. Akinobu Shimizu, Tatsuya Kimoto, Daisuke Furukawa, Hidefumi Kobatake, Shigeru Nawano, and Kenji Shinozaki: Pancreas segmentation in three-phase abdominal CT volume data, International Journal of Computer Assisted Radiology and Surgery, Vol.3, Supplement1, s393-s394, 2008
- 56. Akinobu Shimizu, Takuya Narihira, Daisuke Furukawa, Hidefumi Kobatake, Shigeru Nawano and Kenji Shinozaki: Ensemble segmentation using AdaBoost with application to liver lesion extraction from a CT volume, Proc. of workshop in MICCAI2008, 2008
- 57. Takuya Narihira, Akinobu Shimizu, Daisuke Furukawa, Hidefumi Kobatake, Shigeru Nawano, Kenji Shinozaki: Boosting algorithms for segmentation of metastatic liver tumors in contrast-enhanced computed tomography, International Journal of Computer Assisted Radiology and Surgery, vol.4, supplement1, S41, 2009
- 58. Akinobu Shimizu, Tatsuya Kimoto, Hidefumi Kobatake, Shigeru Nawano, Kenji Shinozaki: Patient-specific atlasguided pancreas segmentation from three-dimensional contrast-enhanced computed tomography, International Journal of Computer Assisted Radiology and Surgery, vol.4, supplement1, S318, 2009
- 59 Elco Oost, Yuki Akatsuka, Akinobu Shimizu, Hidefumi Kobatake, Daisuke Furukawa and Akihiro Katayama: Vessel segmentation in eye fundus images using ensemble learning and curve fitting.
  Proc. of IEEE International Symposium on Biomedical Imaging, pp.676-679 2010
- 60. Yuji Uchida, Akinobu Shimizu, Hidefumi Kobatake, Shigeru Nawano, and Kenji Shinozaki: A comparative study of statistical shape models of the pancreas. International Journal of Computer Assisted Radiology and Surgery, vol.5, supplement1, pp.385-387, 2010
- 61. Keita Nakagomi, Takuya Narihira, Akinobu Shimizu, Hidefumi Kobatake, Shigeru Nawano, and Kenji Shinozaki, Koichi Ishizu, Kaori Togashi: Shape prior based segmentation of organs in a 3D CT volume with graph cut. International Journal of Computer Assisted Radiology and Surgery, vol.5, supplement1, S79-S80, 2010
- 62. Akinobu Shimizu, Keita Nakagomi, Takuya Narihira, Hidefumi Kobatake, Shigeru Nawano, Kenji Shinozaki, Koich Ishizu, and Kaori Togashi: Automated Segmentation of 3D CT Images based on Statistical Atlas and Graph Cuts, Proc. of MICCAI workshop MCV, pp.129-138, 2010
- 63. Elco Oost, Akinobu Shimizu, Hidefumi Kobatake and Shigeru Nawano: Multi-Organ Statistical Models and their application to abdominal CT images, Proc. of IFMIA2011, O4-5, 2011
- 64. Akinobu Shimizu, Takayuki Kitasaka, Shigeru Nawano, Kenji Shinozaki, Yukio Tateno : 3D Medical Image Processing Algorithm Competition in Japan, Proc. of IFMIA2011, S1-2, 2011
- 65. Akinobu Shimizu, Misaki Nakada, Hidefumi Kobatake, Shigeru Nawano: Statistical shape models of multiple organs in an upper abdominal CT volume, International Journal of Computer Assisted Radiology and Surgery, vol.4, supplement1, S361, 2011
- 66. Keita Nakagomi, Akinobu Shimizu, Hidefumi Kobatake, Masahiro Yakami, Koji Fujimoto, Kaori Togashi: Multi-shape graph-cuts and its application to lung segmentation from a chest CT volume, MICCAI-PIA, pp.157-168, 2011
- 67. Hiroyuki Sekiguchi, Masahiro Yakami, Koji Fujimoto, Takeshi Kubo, Kaori Togashi, Koji Sakai, Yutaka Emoto, Akinobu Shimizu: An Efficient and Robust Manual Segmentation Method for CT Lung Nodules Using Interpolated Images. LL-INE11158-SUA、RSNA 2011
- 68. Akinobu SHIMIZU, Misaki NAKADA, Atsushi SAITO, Hidefumi WATANABE, Hidefumi KOBATAKE and Shigeru NAWANO: Improvement of a simultaneous statistical shape model for multiple abdominal organs using synthesized-based learning, International Journal of Computer Assisted Radiology and Surgery, vol.7, supplement1, S327-S328, 2012
- 69. Akinobu SHIMIZU, Mariko KOBAYASHI, Keita NAKAGOMI, Hidefumi KOBATAKE, Masahiro YAKAMI, Koji FUJIMOTO, and Kaori TOGASHI: Interlobar fissure extraction from a chest CT volume based on a new loss function for a boosting algorithm, International Journal of Computer Assisted Radiology and Surgery, vol.7, supplement1, S322-S324, 2012
- 70. Sho Tomoshige, Elco Oost, Akinobu Shimizu, Hidefumi Watanabe, Hidefumi Kobatake, and Shigeru Nawano: Relaxed Conditional Statistical Shape Models and their Application to Non-Contrast Liver Segmentation, Proc. of Workshop on Computational and Clinical Applications in Abdominal Imaging in conjunction with MICCAI2012, pp. 126-136, 2012
- 71. Hidefumi Watanabe, Akinobu Shimizu, Shun Umetsu, Hidefumi Kobatake, Junji Ueno, Shigeru Nawano: Landmark based semi-automated abdominal organ segmentation algorithm from a 3D medical images via sparse representation, Proc. of International Forum on Medical Imaging in Asia, 2012
- 72. Atsushi Saito, Akinobu Shimizu, Hidefumi Watanabe, Seiji Yamamoto, Hidefumi Kobatake: A statistical shape model of a dead liver for autopsy imaging, Proc. of International Forum on Medical Imaging in Asia, 2012
- 73. Shun Umetsu, Akinobu Shimizu, Hidefumi Watanabe, Hidefumi Kobatake, Shigeru Nawano: Concurrent estimation of regions of normal tissues and pathological lesions in a liver from CT volumes based on the lasso and application to segmentation of liver with lesions, Proc. of International Forum on Medical Imaging in Asia, 2012
- 74. Shigeyuki Uematsu, Yuichi Kobayashi, Akinobu Shimizu, Toru Kaneko: Prediction of Object Manipulation using

- Tactile Sensor Information by a Humanoid Robot, Proc. of IEEE international symposium on robotic and sensors environments, pp.37-42, 2012
- 75. Takuo Sekiguchi, Yuichi Kobayashi, Akinobu Shimizu, Toru Kaneko: Online Learning of Optimal Robot Behavior for Object Manipulation using Mode Switching, Proc. of IEEE international symposium on robotic and sensors environments, pp.61-66, 2012
- 76. Atsushi Saito, Akinobu Shimizu, Hidefumi Watanabe, Seiji Yamamoto, Hidefumi Kobatake: Automated liver segmentation from a CT volume of a cadaver using a statistical shape model, International Journal of Computer Assisted Radiology and Surgery, vol.8, supplement1, S48-S49, 2013
- 77. Atsushi Saito, Misaki Nakada, Elco Oost, Akinobu Shimizu, Hidefumi Watanabe, Shigeru Nawano: A Statistical Shape Model for Multiple Organs Based on Synthesized-Based Learning. Proc. of Workshop on Computational and Clinical Applications in Abdominal Imaging in conjunction with MICCAI2013, pp. 280-289, 2013
- 78. Reito Oshima, Atsushi Saito, Hidefumi Watanabe, Akinobu Shimizu and Shigeru Nawano: Relaxed conditional hierarchical statistical shape model of multiple organs, Proc. of 1st International Workshop on BioImage Recognition, pp.288-293, 2013, DOI 10.1109/CANDAR.2013.50
- 79. Atsushi Saito, Satoshi Okata, Akinobu Shimizu, Hidefumi Watanabe, Shigeru Nawano: Automated lung segmentation for autopsy imaging using graph cuts with a statistical shape model, International Journal of Computer Assisted Radiology and Surgery," vol.9, supplement1, S37-S38, 2014
- 80. Shun Umetsu, Akinobu Shimizu, Hidefumi Watanabe, Shigeru Nawano: Improvement of a patient specific probabilistic atlas for liver segmentation, International Journal of Computer Assisted Radiology and Surgery," vol.9, supplement1, 2014
- 81. Reito Oshima, Atsushi Saito, Akinobu Shimizu, Shigeru Nawano, "Improvement of abdominal multi-organ segmentation using a relaxed conditional hierarstical statistical shape model," Proc. of the International Forum on Medical Imaging in Asia (IFMIA), 2015
- 82. Kohei Yamashita, Akinobu Shimizu, Shigeru Nawano, "Multi-atlas based multi-organ segmentation from an abdominal CT volume," Proc. of the International Forum on Medical Imaging in Asia (IFMIA), 2015
- 83. Yusuke Takata, Seiji Yamamoto, Akinobu Shimizu, "A deep learning based rib fracture detection algorithm for autopsy imaging," Proc. of the International Forum on Medical Imaging in Asia (IFMIA), 2015
- 84. R.Shahril, A. Saito, A Shimizu, S. Baharun, A.K.M.M. Islam, Bleeding classification on wireless capsule endoscopy images using deep convolutional neural network, International Journal of Computer Assisted Radiology and Surgery vo.10, (suppl1), S292-293, 2015
- 85. Shouhei Hanaoka, Yukihiro Nomura, Mitsutaka Nemoto, Soichiro Miki, Takeharu Yoshikawa, Naoto Hayashi, Kuni Ohtomo, Yoshitaka Masutani and Akinobu Shimizu: HoTPiG: A Novel Geometrical Feature for Vessel Morphometry and Its Application to Cerebral Aneurysm Detection, Proc. of Medical Image Computing and Computer-Assisted Intervention, Part II, Lecture Notes in Computer Science Vol.9350, pp.103-110, 2015
- 86. Akinobu Shimizu, Hidekata Hontani, Naoki Kobayashi, Hayaru Shono, Kensaku Mori, Chika Iwamoto, Kenoki Ouchida, Yoshinao Oda, Makoto Hashizume, A multi-scale and multi-modality statistical model of pancreas, International Journal of Computer Assisted Radiology and Surgery vo.10, (suppl1), S165-166, 2016
- 87. Shouhei Hanaoka, Y. Nomura, M. Nemoto, S. Miki, T. Yoshikawa, N. Hayashi, K. Ohtomo, A. Shimizu, Fully automatic definition of anatomical landmarks in medical images: a feasibility study, International Journal of Computer Assisted Radiology and Surgery vo.10, (suppl1), S166-167, 2016
- 88. S. Alam, S Kobashi, R Nakano, M Morimoto, S Aikawa, A Shimizu, Spatiotemporal Statistical Shape Model Construction for Longitudinal Brain Deformation Analysis Using Weighted PCA, International Journal of Computer Assisted Radiology and Surgery vo.10, (suppl1), S204, 2016
- 89 Yui Nakagawa, Atsushi Saito, Junichi Hata, Satoko Takemoto, Yuji Komaki, Erika Sasaki, Hideyuki Okano, Hideo Yokota, Akinobu Shimizu, MR Image Segmentation of Marmoset Brain Using Prediction of Shape Development by Gaussian Process, International Forum on Medical Imaging in Asia, O2-2, 2017
- 90. Masashi Kishimoto, Atsushi Saito, Tetsuya Takakuwa, Shigehito Yamada, Akinobu Shimizu, A Spatiotemporal Statistical Model for Landmarks of Oral and Maxillofacial Area During the Human Embryonic Period, Proc. of International Forum on Medical Imaging in Asia, O5-3, 2017
- 91 Kazuki Kasahara, Atsushi Saito, Tetsuya Takakuwa, Shigehito Yamada, Akinobu Shimizu, A Spatiotemporal Statistical Shape Model of Brain Surface During Human Embryonic Development, International Forum on Medical Imaging in Asia, P2-24, 2017
- 92 Yuta Minami, Atsushi Saito, Mitsutaka Nemoto, Shouhei Hanaoka, Shigeaki Higashiyama, Joji Kawabe, Susumu Shiomi, Akinobu Shimizu, Detection of Abnormal Accumulations on a Bone Scintigram Utilizing Anatomical Structure Information, Proc. of International Forum on Medical Imaging in Asia, P2-19, 2017
- 93. J. Ishida, A. Saito, A. Shimizu, Multi-modality statistical model between a thoracic CT volume and photographs of lung cryosections of a cadaver, International Journal of Computer Assisted Radiology and Surgery vo.12, (suppl1), S192, 2017

- 94. S. Hanaoka, Y. Nomura, M. Nemoto, T. Takenaga, S. Miki, T. Yoshikawa, N. Hayashi, O. Abe, A. Shimizu, Fully automatic definition and detector learning of anatomical landmarks in medical images, International Journal of Computer Assisted Radiology and Surgery vo.12, (suppl1), S207, 2017
- 95. S. Alam, M. Nii, A. Shimizu, S. Kobashi, Machine learning with 3D spatio-temporal SSM for Alzheimer's disease patient classification, International Journal of Computer Assisted Radiology and Surgery vo.12, (suppl1), S275, 2017
- 96. Atsushi Saito, Masaki Tsujikawa, Tetsuya Takakuwa, Shigehito Yamada, and Akinobu Shimizu, Statistical Shape Model of Nested Structures Based on the Level Set, Proc. of Medical Image Computing and Computer-Assisted Intervention, Part I, LNCS 10433, pp. 169–176, 2017
- 97. Wakabayashi H., Saito A., Higashiyama S., Kawabe J., Shiomi S., Shimizu A.

  Detection of bone metastasis in a scintigram using U-Net
  International Journal of Computer Assisted Radiology and Surgery vo.13, (suppl1), S260, 2018
- 98. Tozawa K., Saito A., Kido S., Inai K., Kimura H., Shimizu A: Super resolution of a lung CT volume using a generative adversarial network, International Journal of Computer Assisted Radiology and Surgery vo.13, (suppl1), S170, 2018
- 99. Kanamori T., Saito A., Hanaoka S, Higashiyama S, Kawabe J., Shiomi S, Shimizu A.: Recognition algorithm of anatomical skeleton in a bone scintigram, International Journal of Computer Assisted Radiology and Surgery, vo.13, (suppl1), S259, 2018
- 100. Atsushi Saito, Koyo Nakayama, Antonio R. Porras, Awais Mansoor, Elijah Biggs, Marius George Linguraru, and Akinobu Shimizu: Construction of a spatiotemporal statistical shape model of pediatric liver from cross-sectional data, Proc. of Medical Image Computing and Computer-Assisted Intervention, Part I, LNCS 11071, pp. 676–683, 2018
- 101. Hao Bo Yu, Yui Nakagawa, Harvey Ho, Atsushi Saito, Akinobu Shimizu: Deformable Cubic Hermite Mesh Templates for Statistical Liver Shape Analysis, Proc. of workshop on Shape in Medical Imaging in conjunction with MICCAI2018102. Zhihui Lu, Akinobu Shimizu and Harvey Ho, Evaluation of a statistical shape model for the liver, Proc. of IVCNZ 2018, 2018
- 103. Takahiro Kubo, Mahdieh Moghiseh, Anthony Butler, Raja Aamir, Atushi Saito, Akinobu Shimizu: Effectiveness of narrow spectral bands in organ segmentation of a mouse, Proc. of MARS Spectral CT workshop 2018
- 104. Atsushi Saito, Masashi Kishimoto, Kazuki Kasahara, Masaki Tsujikawa, Tetsuya Takakuwa, Shigehito Yamada, Hiroshi Matsuzoe, Hidekata Hontani and Akinobu Shimizu: Spatial and spatiotemporal statistical models of a human embryo, Proc. of the International Forum on Medical Imaging in Asia, Jan. 2019
- 105. Hidekata Hontani, Yushi Goto, Yuki Tamura, Tomoshige Shimomura, Naoki Kawamura, Hirokazu Kobayashi, Mauricio Kugler, Tatsuya Yokota, Chika Iwamoto, Kenoki Ohuchida, Makoto Hashizume, and Akinobu Shimizu: Registration between histopathological images with different stains and an MRI Image of Pancreatic Cancer Tumor, Proc. of the International Forum on Medical Imaging in Asia, Jan. 2019
- 106. Zhihui Lu, Atsushi Saito, Shigeru Nawano, Akinobu Shimizu: Construction and Evaluation of a Statistical Shape Model of Liver Using Variational Autoencoder, The IEEE International Symposium on Biomedical Imaging 2019
- 107. Koyo Nakayama, Atsushi Saito, Elijah Biggs, Marius George Linguraru, Akinobu Shimizu: Liver segmentation from a pediatric CT volume based on joint optimization with a conditional statistical shape model, The IEEE International Symposium on Biomedical Imaging 2019
- 108. M. Yambe, A. Saito, M. Fukasawa, T. Iizuka, A. Shimizu: 3D deep convolutional neural network using SPECT images for classification of dementia type, International Journal of Computer Assisted Radiology and Surgery, 2019
- 109. Y. Saeki, A. Saito, J. Ueno, M. Harada, A. Shimizu: Statistical intensity model of lung vessels in a CT volume using β-VAE, International Journal of Computer Assisted Radiology and Surgery, 2019
- 110. Motoki Katsube, Shigehito Yamada, Yutaka Yamaguchi, Tetsuya Takakuwa, Akira Yamamoto, , Hirohiko Imai, Atsushi Saito, Akinobu Shimizu, Naoki Morimoto: CRITICAL GROWTH PROCESSES FOR THE PATHOGENESIS OF A CONGENITAL MIDFACIAL HYPOPLASIA, 18th Congress of International Society of Craniofacial Surgery, 2019
- 111. Aoi Shinjo, Atushi Saito, Tetsuya Takakuwa, Shigehito Yamada, Hidekata Hontani, Hiroshi Matsuzoe, Shoko Miyauchi, Ken'ichi Morooka and Akinobu Shimizu: Spatiotemporal statistical model of anatomical landmarks on a human embryonic brain, Proc. of CLIP workshop in conjunction with MICCAI2019, 2019