A list of Academic Achievements

■ Peer-reviewed Articles

Journal

[1] J. Chun, T. Horiyama, T. Ito, Natsuda Kaothanthong, H. Ono, Y. Otachi, T. Tokuyama, R. Uehara, and T. Uno. Base-object location problems for base-monotone regions. Theoretical Computer Science, 2013. *(accepted)*

[2] J. Chun, Natsuda Kaothanthong, R. Kasai, M. Korman, M. Nöllenburg, and T. Tokuyama. Algorithms for computing the maximum weight region decomposable into elementary shapes. Computer Vision and Image Understanding, 116(7):803{814, 2012.

[3] Natsuda Kaothanthong, J. Chun, and T. Tokuyama. Classified-distance based shape descriptor for image retrieval, CAIP special edition of Pattern Recognition. *(invited, submitted)*

[4] C.-T. Nguyen, Natsuda Kaothanthong, T. Tokuyama, and X.-H. Phan. A feature-word-topic model for image annotation and retrieval. ACM Transactions on the Web, 7(3):12:112:24, 2013.

International Conference Papers

[5] L. Chiu, Natsuda Kaothanthong, T. Theeramonkong, and C. Nattee. A corpus-based approach for thai Romanization. Proceedings of the 7th International Symposium on Natural Language Processing (SNLP2007), 2007.

[6] C.-T. Nguyen, Natsuda Kaothanthong, X. H. Phan, and T. Tokuyama, A feature-word-topic model for image annotation, Proceedings of the 19th ACM Conf. on Information and Knowledge Management (CIKM2010), pp. 1481–1484, 2010.

[7] J. Chun, Natsuda Kaothanthong, Y. Ota, and T. Tokuyama, Image retrieval system using distance-based shape recognition, Proceedings of the 14th Korea-Japan Joint Workshop on Algorithms and Computation (WAAC2011),2011.

[8] J. Chun, Natsuda Kaothanthong, Y. Ota, and T. Tokuyama, Distance-based shape invariants for image retrieval, Proceeding of the 4th Annual Meeting of the Asian Association for Algorithms and Computation (AAAC2011), Hsinchu, Taiwan 2011.

[9] J. Chun, Natsuda Kaothanthong, H. Takahashi, and T. Tokuyama, How to cut a complicated figure by using scissors? Computing the maximum weight region consisting of base monotone regions, Proceedings of the 5th Annual Meeting of the Asian Association for Algorithms and Computation (AAAC2012), 2012.

[10] J. Chun, Natsuda Kaothanthong, H. Takahashi, and T. Tokuyama, Optimal grid decomposition for maximum weight region computation with application to image segmentation, Computational Geometry: Young Researchers Forum (CG:YRF), 2012.

[11] J. Chun, T. Horiyama, T. Ito, Natsuda Kaothanthong, H. Ono, Y. Otachi, T. Tokuyama, R. Uehara and T. Uno. Algorithms for computing optimal image segmentation using quadtree decomposition. Thailand-Japan Joint Conference on Computational Geometry and Graphs (TJJCCGG2012), 2012.

[12] J. Chun, Natsuda Kaothanthong, and T. Tokuyama, Shape description using classified distances, Proceeding of the 6th Annual Meeting of the A sian Association for Algorithms and Computation (AAAC2013), 2013.

[13] J. Chun, Natsuda Kaothanthong, and T. Tokuyama, Correspondence finder using classified distance distribution for efficient shape retrieval, Proceedings of the 16th Korea-Japan Joint Workshop on Algorithms and Computation (WAAC2013), 2013.

[14] J. Chun, T. Horiyama, T. Ito, Natsuda Kaothanthong, H. Ono, Y. Otachi, T. Tokuyama, R. Uehara and T. Uno. Base location problems for base-monotone regions, WALCOM: Algorithms and Computation, Lecture Notes in Computer Science, volume 7748, pp. 53-64, 2013.

[15] J. Chun, Natsuda Kaothanthong, and T. Tokuyama, Classified-distance based shape descriptor for application to image retrieval. Computer Analysis of Images and Patterns (CAIP2013), Lecture Notes in Computer Science, volume 8048, pp. 1-8. 2013.

■ Non-Refereed Conferences and Workshops

[16] Natsuda Kaothanthong, Study on a shape-based image retrieval using distance information, The

4th Thailand-Japan International Academic Conference (TJIA2011), 2011.
[17] J.Chun, Natsuda Kaothanthong, H. Takahashi, and T.Tokuyama, An image segmentation using maximum weight region with shape constraint, The First ETH-JAPAN Workshop on Science and Computing, 2012.
[18] J. Chun, Natsuda Kaothanthong, and T. Tokuyama, Image recognition and retrieval by using distance information, LA Symposium 2011, pp. S[4]-1-4, 2011.
[19] J. Chun, Natsuda Kaothanthong, Y. Ota, and T. Tokuyama, Image retrieval using shape recognition,第10回情報科学技術フォーラム(FIT2011), 2011.
[20] J. Chun, Natsuda Kaothanthong, and T. Tokuyama, Image segmentation using maximum weight region, 電子情報通信学会 (COMP 研究会), 2011.

■ Doctoral Thesis

Natsuda Kaothanthong, Image retrieval system using computational geometry. PhD dissertation, Tohoku University, 2014.