REFERENCES

- [1] Tongsong, T. and Tatiyapornkul, T., "Cardiothoracic ratio in the first half of pregnancy," Journal of Clinical Ultrasound, vol. 32, 2004, pp. 186-189.
- [2] Tongsong, T. Wanapirak, C. Sirichotiyakul, S. Piyamongkol, W. and Chanprapaph, P., "Fetal sonographic cardiothoracic ratio at midpregnancy as a predictor of Hb Bart disease," Journal of Ultrasound Medicine, vol. 18, 1999, pp. 807-811.
- [3] Thathan, N. Traisrisilp, K. Luewan, S. Srisupundit, K. Tongprasert, F. and Tongsong, T., "Screening for hemoglobin Bart's disease among fetuses at risk at midpregnancy using the fetal cardiac diameter to biparietal diameter ratio," BMC Pregnancy and Childbirth, vol. 14, 2014, p. 230.
- [4] Deng, Y. and Wang, Y., "Automated detection of fetal cardiac structure first-trimester ultrasound sequences," 3rd International Conference on Biomedical Engineering and Informatics, 2010.
- [5] Abu-Zidan, FM. Hefny, AF. and Corr, P., "Clinical ultrasound physic. Journal of Emergencies, Trauma, and Shock," vol. 4(4), 2011, pp. 501-503.
- [6] Tongsong, T., *Text and ultrasound image for obstetrics*, Mother and fetus Section, Department of Obstetric and Gynecology, Faculty of Medicine, Chiang Mai University, Second Edition, 2000, pp.1-16, 324-345, 587-607.
- [7] The Association for Medical Ultrasound, "American Institute of Ultrasound in Medicine (aium)," AIUM Practice Guideline for the Performance of Fetal Echocardiography, 2013, 14 pp.
- [8] The International Society of Ultrasound in Obstetrics & Gynecology, "Cardiac screening examination of the fetus: guidelines for performing the "basic" and "extended basic" cardiac scan," Ultrasound in obstetrics & gynecology, vol. 27, 2006, pp. 107-113.

- [9] Gandhi, J. Lai, W. Gandhi, S. Saraiya, U.B., *Fetal Cardiology for Obstetricians*, Jaypee Brothers, Medical Publishers (P) Ltd., New Delhi, 2007, 137p.
- [10] Porkaew, P., "Cardiomegaly detection in fetus using ultrasound image," Full Report Submitted to National Science and Technology Development Agency, 2006, 4p.
- [11] Tantipalakorn, C., "Cardiomegaly detection in fetus," Project no 12/2546, Bachelor Degree Project, Department of computer engineer faculty of engineering Chiang Mai University, 2003, 53p.
- [12] Dindoyal, I. Lambrou, T. Deng, J. and Todd-Pokropek, A., "Automatic segmentation of low resolution fetal cardiac data using snakes with shape priors," 5th International Symposium on Image and Signal Processing and Analysis, 2007, pp. 538-543.
- [13] Deng, Y. Wang, Y. Shen, Y. and Chen, P., "Active cardiac model and its application on structure detection from early fetal ultrasound sequences," Computerized Medical Imageing and Graphic, vol. 36, 2012, pp. 239-247.
- [14] Jacop, R.M.R. Prabakar, S. and Porkumaran, DR.K., "Fetal Cardiac Structure Detection from Ultrasound Sequences," International Journal of Instrumentation, Control and Automation (IJICA), vol. 2, 2013, pp. 12-16.
- [15] Sampath, S. and Sivaraj, N. "Fuzzy Connectedness Based Segmentation of Fetal Heart from Clinical Ultrasound Images," Advanced Computing, Networking and Imformatics, vol. 1, 2014, pp. 329-337.
- [16] Theera-Umpon, N., "White Blood Cell Segmentation and Classification in Microscopic Bone Marrow Images," Lecture Notes in Computer Science, Vol. 3614, 2005, pp. 787–796.

- [17] Gonzalez, R.C. Woods, R.E. and Eddins, S. *Digital Image Processing Using MATLAB*, Second Edition, Pearson Prentice. Hall, 2008, 597p.
- [18] Gonzalez, R.C. and Woods, R.E., *Digital Image Processing*, in Pearson Education Inc, Third Edition, 1992, 954p.
- [19] Horn, BKP. and Schunck, BG., "Determining Optical Flow," A.I. Memo No. 572. Massachusetts Institute of Technology Artificial Intelligence Laboratory, 1981, pp. 185-203.
- [20] Kesrarat, D. and Patanavijit, V., "Tutorial of motion estimation base on Hornschunck optical flow algorithm in Matlab," Assumption University Journal of Technology, vol. 15(1), 2011, pp. 8-16.
- [21] Gonzalez, R.C. and Woods, R.E., *Digital Image Processing*, Pearson International Education, United States of America, Third Edition, 2010, pp.764-769.
- [22] Jayaraman, S. Esakkirajan, S. and Veerakumar, T., *Digital Image Processing*, Tata McGraw Hill Education Private Limited, 7 West Patel Nagar, New Delhi 110 008, 2009, 270p.
- [23] Krishnupuram, R. and Keller, J. M., "A possibilistic approach to clustering," Fuzzy Systems, IEEE Transactions on., vol. 1, 1993, pp. 98-110.
- [24] Stephanie, P.V.S. Boulesteix, A.L. Lederer, C. Grunow, S. Schiermeier, S. Hatzmann, W. Schneider, K.T.M. and Daumer, M., "What is the "normal" fetal heart rate?," 2013, pp. 1-15.
- [25] Lang, R.M. Bierig, M. Devereux, R.B. Flachskampf, F.A. Foster, E. Pellikka, P.A. Picard, M.H. Roman, M.J. Seward, J. Shanewise, J. Solomon, S. Spencer, K.T. Sutton, M.St.J. and Stewart, W., "Recommendations for chamber quantification," The European Society of Cardiology, vol. 7, 2006, pp. 79-108.
- [26] Sardsud, C. Auephanwiriyakul, S. Theera-Umpon, N. and Tongsong, T., "Patch-based Fetal Heart Chamber Segmentation in Ultrasound Sequences Using

Possibilistic Clustering," in Proceedings of the 2015 Seventh International Conference on Computational Intelligence, Modelling and Simulation, Kuantan, Malaysia, July 2015, 27-29, pp. 23-37



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright[©] by Chiang Mai University All rights reserved

LIST OF PUBLICATIONS

1) Sardsud, C. Auephanwiriyakul, S. Theera-Umpon, N. and Tongsong, T., "Patch-based Fetal Heart Chamber Segmentation in Ultrasound Sequences Using Possibilistic Clustering," in Proceedings of the 2015 Seventh International Conference on Computational Intelligence, Modelling and Simulation, Kuantan, Malaysia, July 2015, 27-29, pp. 23-37



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่ Copyright[©] by Chiang Mai University All rights reserved