

## DAFTAR PUSTAKA

- [1] Hidayatullah, P., & Zuhdi, M. *Automatic sperms counting using adaptive local threshold and ellipse detection. In Information Technology Systems and Innovation (ICITSI), 2014 International Conference IEEE* (Hal. 56-61), November 2014.
- [2] Wilson-Leedy Jonas G. & Ingermann Rolf L. *Development of a novel CASA sytem based on opensource ofware for characterization of zebrafish sperm motility parameters. Teriogenology* 67 661-672, 2007
- [3] *Computer assisted semen analysis*, <http://www.alibaba.com/showroom/computer-assisted-semen-analysis.html>, Diakses pada 5 Oktober 2015.
- [4] Amaan, R.P., Waberski, D., *Computer-assisted sperm analysis (CAS): Capabilities and Potential development. Theriogenology* 81 5-17, 2014
- [5] Groenewald, A. M., Botha, E. C., *Preprocessing and Tracing algorithms for Automatic Sperm Analysis, IEEE*, 1991.
- [6] Leung, C., Zhe Lu, Esfandiari, N., Casper, R.F., Yu Sun. *Detection and tracking of low contrast human sperm tail,. Automation Science and Engineering (CASE), 2010 IEEE Conference on* , vol., no., Hal.263,268, 21-24 Agustus 2010
- [7] Dawson-Howe, K. *A Practical Introduction to Computer Vision with OpenCV*. Wiley, 2014.
- [8] Abdat, Faiza, Choubeila Maaoui, & Alain Pruski. *Real time facial feature points tracking with Pyramidal Lucas-Kanade algorithm. Robot and Human Interactive Communication*, 2008. RO-MAN 2008. The 17th IEEE International Symposium on. IEEE, 2008.
- [9] Rahatabad, Fereidoon Nowshiravan, Mohammad Hassan Moradi, dan Vahid Reza Nafisi. *A Multi Steps Algorithm for Sperm Segmentation in Microscopic Image. IEC (Prague)*. 2005.
- [10] Bijar, Ahmad, Antonio Peñalver Benavent, and Mohammad Mikaeili. *Fully automatic identification and discrimination of sperm's parts in microscopic images of stained human semen smear. Journal of Biomedical Science and Engineering* 5.07:384, 2012
- [11] Rajan, Jeny, K. Kannan, and M. R. Kaimal. *An improved hybrid model for molecular image denoising. Journal of Mathematical Imaging and Vision* 31.1 Hal.73-79, 2008
- [12] Sauvola, J., & Pietikäinen, M. *Adaptive document image binarization. Pattern recognition*, 33(2), Hal.225-236, 2000.
- [13] Ravanfar, Mohammad R., and Mohammad H. Moradi. *Low contrast sperm detection and tracking by Watershed algorithm and Particle filter. Biomedical Engineering (ICBME), 2011 18th Iranian Conference of. IEEE*, 2011.

- [14] Zhou, Xiuzhuang, and Yao Lu. *Efficient mean shift particle filter for sperm cells tracking. Computational Intelligence and Security, 2009. CIS'09. International Conference on.* Vol. 1. IEEE, 2009.
- [15] Butts, I. A. E., Ward, M. A. R., Litvak, M. K., Pitcher, T. E., Alavi, S. M. H., Trippel, E. A., & Rideout, R. M. *Automated sperm head morphology analyzer for open-source software.* *Theriogenology*, 76(9), 1756-1761, 2011
- [16] Li, Q., Chen, X., Zhang, H., Yin, L., Chen, S., Wang, T., ... & Zhang, R. Automatic human spermatozoa detection in microscopic video streams based on OpenCV. *Biomedical Engineering and Informatics (BMEI), 2012 5th International Conference on.* IEEE, 2012.
- [17] Munir, Rinaldi,. *Pengolahan Citra Digital.* <http://informatika.stei.itb.ac.id/~rinaldi.munir/Buku/Pengolahan%20Citra%20Digital/> . Diakses pada 5 Oktober 2015.
- [18] *Opencv, Opencv Documentation,* <http://docs.opencv.org/>, Diakses pada 5 Oktober 2015
- [19] Sugiarto, A.. *Fotografi Ponsel - Murah, mudah, indah,* Gramedia Pustaka Utama.
- [20] Mediacollege. *Frame Rate.* <http://www.mediacollege.com/video/frame-rate>. Diakses pada 5 Oktober 2015.
- [21] Raju, P. D. R., & Neelima, G. (2012). Image segmentation by using histogram tresholding. *International Journal of Computer Science Engineering and Technology*, 2, 776-779.
- [22] Bradski, G, Kaehler, A,. *Learning OpenCV: Computer Vision with the OpenCV Library.* O'Reilly Media, 2008.
- [23] Kamus Besar Bahasa Indonesia. <http://kbbi.web.id/>. Diakses pada 5 Oktober 2015.
- [24] Feynman, R.P., Leighton, R.B., Sands, M. *The Feynman Lectures on Physics: Mainly mechanics, radiation, and heat. Vol. 1.* Addison-Wesley, 1977
- [25] Sysmagazine. *That you want to know about an optical flow, but hesitat to ask* <http://sysmagazine.com/posts/201406/>. Diakses pada 5 Oktober 2015.
- [26] Lucas, B. D., & Kanade, T. *An iterative image registration technique with an application to stereo vision.* Di dalam IJCAI (Vol. 81, Hal. 674-679). Agustus 1981
- [27] Farneback, Gunnar. *Two-frame motion estimation based on polynomial expansion. In Image Analysis,* Hal. 363-370. Springer Berlin Heidelberg, 2003
- [28] Sysmagazine. *That you want to know about an optical flow, but hesitat to ask* <http://sysmagazine.com/posts/201406/>. Diakses pada 5 Oktober 2015.
- [29] Bouguet, J. Y. *Pyramidal implementation of the affine lucas kanade feature tracker description of the algorithm.* *Intel Corporation*, 5, 1-10. 2001.
- [30] Sridianti. *Penertian Sel Sperma.* <http://www.sridianti.com/pengertian-sel-sperma.html>. Diakses pada 18 Oktober 2015.

- [31] Lusa. *Sperma*. <http://www.lusa.web.id/sperma/>. Diakses pada 18 Oktober 2015.
- [32] Widayati, D. T.. *Penilaian Atau Evaluasi Sperma*. Kuliah Ilmu Reproduksi Ternak. Fakultas Peternakan Universitas Gadjah Mada. Diakses pada 18 Oktober 2015.
- [33] Powers & W. David M.. *Evaluation: From Precision, Recall And F-Measure To Roc, Informedness, Markedness & Correlation*. *Journal of Machine Learning Technologies*. ISSN: 2229-3981 & ISSN: 2229-399X, Volume 2, Issue 1, Hal-37-63. 2011