

Contour Detection of Leukocyte Cell Nucleus Using Morphological Image

Publons ID	20572084
Wos ID	WOS:000404218800069
Doi	10.1088/1742-6596/824/1/012069
Title	Contour Detection of Leukocyte Cell Nucleus Using Morphological Image
First Author	
Last Author	
Authors	Supriyanti, R; Satrio, GP; Ramadhani, Y; Siswandari, W;
Publish Date	2017
Journal Name	3RD INTERNATIONAL CONFERENCE ON MATHEMATICS, SCIENCE AND EDUCATION 2016
Citation	5
Abstract	<p>Leukocytes are blood cells that do not contain color pigments. Leukocyte function to the tool body's defenses. Abnormal forms of leukocytes can be a sign of serious diseases such example is leukemia. Most laboratories still use cell morphology examination to assist the diagnosis of illness associated with white blood cells such example is leukemia because of limited resources, both infrastructure, and human resources as happens in developing nations, such as Indonesia. This examination is less expensive and quicker process. However, morphological review requires the expertise of a specialist clinical pathology were limited. This process is sometimes less valid cause in some cases trying to differentiate morphology blast cells into the type of myoblasts, lymphoblast, monoblast, or erythroblast thus potentially misdiagnosis. The goal of this research is to develop a detection device types of blood cells automatically as lower-priced, easy to use and accurate so that the tool can be distributed across all units in existing health services throughout Indonesia and in particular for remote areas. However, because the variables used in the identification of abnormal leukocytes are very complex, in this paper, we emphasize on the contour detection of leukocyte cell nucleus using the morphological image. The results show that this method is promising for further development.</p>
Publish Type	Book in series
Publish Year	2017
Page Begin	(not set)
Page End	(not set)
Issn	1742-6588
Eissn	1742-6596
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000404218800069
Author	Dr Dr dr. VM WAHYU SISWANDARI, S.Ked, Sp.P.K, M.Si.Med