Brain Tumor Segmentation

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 138
Number 13

Year of Publication: 2016

Authors:
Jenish Gada, Akash Savla, Smit Chheda, Poonam Bhogale

10.5120/ijca2016908975
{bibtex}2016908975.bib{/bibtex}

Abstract

Tumor is an uncontrolled growth of tissues in any part of the body. Tumors are of different types and they have different characteristics and different treatment. As it is known, brain tumor is inherently serious and life threatening. Brain tumor analysis is done by doctors but its grading gives different conclusion which may vary from one doctor to another. However this method of detection resists the accurate determination of size of tumor. To avoid that, uses computer aided method for segmentation of brain tumor based on the combination of three algorithms. This algorithm allows the segmentation of tumor tissue with accuracy comparable to manual segmentation. It also reduces time analysis. At the end of the process the tumor is extracted for MR image and its exact position and its shape is also determined.

References

1. Brain Tumor Segmentation and Area Calculation of Tumor by Use of Unsupervised
Brain Tumor Segmentation


2. DETECTION OF BRAIN TUMOUR USING CLASSIFICATION ALGORITHM Amruta Chitari and Mr V.V.BAG PG Research Scholar, N.K. Orchid College of Engineering and Technology, Solapur, Associate Professor, N.K. Orchid College of Engineering and Technology, SolapurInternational Journal of Inventions in Computer Science and Engineering ISSN, Volume 1 Issue 6 July 2014.


8. An Improved LBG Algorithm for Image Vector Quantization Bang Huang Institute of System Engineering, Jiangnan University Wuxi, China 978-1-4244-5540-9/10/$26.00 ©2010 IEEE

Index Terms

Computer Science Biomedical

Keywords

Magnetic Resonance Imaging (MRI), Pre-Processing, K-means, Fuzzy c-means, Linde- Buzo-
Gray algorithm.