Abstract

This paper is the result of our deeper literature study for the proposed work of optimized processing of all kinds of data-intensive medical images in cloud environments (private as well as public). There are a plenty of research papers separately focusing on the cloud capabilities and image-processing processes. However, there are not many papers synchronizing both the cloud and image processing concepts. This survey paper therefore is for feeding the readers about the phenomenal optimizations when cloud infrastructures are being utilized for hosting
medical platforms and applications and for processing (batch as well as real-time), mining, analyzing medical images. We have specifically written about various types of medical images being produced these days and how the raging cloud idea brings forth a series of innovations for medical community practitioners for quickly availing compute, storage and network connectivity solutions and leverages them for the betterment of patients. Further on, in the recent past, clouds are being prescribed as the next-generation optimized and result-oriented environments for big data analytics. We have described how for real-time knowledge extraction, clouds in sync up with big data analytics platforms, processes and tools can be a real game-changer.

References

- George Reese, Cloud Application Architectures: Building Applications and Infrastructure in the Cloud, O'ReillyMedia, Paperback (April 17, 2009), ISBN: 0596156367.
- "The Open Group Cloud Computing Survey," The Open Group, May 9, 2011

**Index Terms**

Computer Science

Current Trends In Advanced Computing

**Keywords**

Cloud Services  Medical Images In Cloud  Patient Data Security In Cloud  Cloud Computing Security Issues