Abstract

Nowadays, power consumption in computer system is an active and important subject of discussion in both research and political communities. Advances in Information and
Communication Technologies (ICT) over the past few years have shown an exponential growth during for few decades. There is a need of some strategies for solutions to optimize energy consumption in the ICT sector. Indeed, increasing the performance of such computer systems frequently requires increasing the number of resources, thus leading to higher power consumption and a negative impact on the environment. It not only ensures efficiency and reduced carbon emissions but also leads to potential cost/time savings in organizations. Intense computing actions that work on huge data, generally take hours to compute which could be reduced to few seconds using Grid Computing and Cloud Computing. The paper provides a basis for using Grid Computing and Cloud Computing for green ICT.

References

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**Index Terms**

Computer Science Grid Computing

**Keywords**

Grid Computing Cloud Computing Energy Saving Green ICT HPC.