A Grid-based e-learning model for Open Universities

Author(s)
[Emebo Onyeka](#) ; [Daramola Olawande](#) ; [Ayo Charles](#)
[View All Authors](#)

Abstract:
E-learning has grown to become a widely accepted method of learning all over the world. As a result, many e-learning platforms which have been developed based on varying technologies were faced with some limitations ranging from storage capability, computing power, to availability or access to the learning support infrastructures. This has brought about the need to develop ways to effectively manage and share the limited resources available in the e-learning platform. Grid computing technology has the capability to enhance the quality of pedagogy on the e-learning platform. In this paper we propose a Grid-based e-learning model for Open Universities. An attribute of such universities is the setting up of multiple remotely located campuses within a country. The grid-based e-learning model presented in this work possesses the attributes of an elegant architectural framework that will facilitate efficient use of available e-learning resources and cost reduction, leading to general improvement of the overall quality of the operations of open universities.

Contents

1. Introduction

E-Learning is overtaking conventional classroom teaching methods. Via this approach, knowledge can be more flexibly propagated and absorbed irrespective of the teaching personnel and learners. Many universities in the world are adopting e-learning as their principal teaching method.

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Keywords

- **IEEE Keywords**

  Variable speed drives, XML, Organizations, Educational institutions

- **INSPEC: Controlled Indexing**

  grid computing, computer aided instruction, cost reduction, distance learning, educational institutions

- **INSPEC: Non-Controlled Indexing**

  cost reduction, grid based e-learning model, open university, storage capability, learning support infrastructure, grid computing technology, remotely located campus, elegant architectural framework

Authors

Emebo Onyeka
Department of computer and information sciences, Covenant University, Nigeria
Daramola Olawande
Department of computer and information sciences, Covenant University, Nigeria
Ayo Charles
Department of computer and information sciences, Covenant University, Nigeria

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