

Área Temática 1

La universidad de la *sociedad de la información*: modelos y propuestas

A Quality Approach for Information Systems Models in Higher Education

Cristina Mendonça, PhD
Senior Research Fellow
CEGE-ISEG
Portugal

This paper intends to contribute to a better understanding of the process through which information resource, information technology, and organisation actors can contribute to the performance and quality of higher education institutions. Conceptual models will be presented and discussed.

We will discuss:

- A conceptual model for the performance optimisation of higher education as a function of Applied Information Systems (ApIS).
Institutions of Higher Education have to develop a viable strategic information resources management system and create some operating principles, which provide basis for consistent decision-making and resource allocation, and support efforts to reach their social mission and objectives. ApIS integrates several concepts, such as competence, skill, expertise, and literacy. It should consider the characteristics of constructive learners, face attitudes regarding the usefulness of IT as an intensive effort to improve quality management Systems in the organisation, attempt to incorporate significant differences between prior knowledge, metacognition, motivation and the “learning style.”
- The quality of the image processing tasks by modelling them as flexible workflow processes.
We specify flexible structures and we model quality of service goals, to allow comparing of the goal fulfilments along alternative execution options. We suggest a method to improve quality of service results for image processing tasks by controlling different execution options.
- A virtual object manipulation system using a 3-D human motion sensing without physical restrictions.
This is the most promising approach to realize seamless coupling between virtual environments and real world. The model is based on doing seamless mapping of human motion in the real world into the virtual environments. Motion capturing by computer vision techniques is applicable for such purposes.

We hope that these three models are issues for an improvement of quality in Education, particularly in higher education, which is by the moment our aim.

