



Guest Editorial: Impact of Integrated Intelligent Information and Analytical Systems on Society

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Abstract

The Special Issue of the *Journal of Information Technology Management (JITM)* is publishing very selective papers on information management, technology in higher education, integrated systems, enterprise management, cultural thoughts, strategic contributions, management information systems, and cloud computing. We received numerous papers for this special issue but after an extensive peer-review process, 10 papers were finally selected for publication. The current special issue consisted of areas viz Integrated Intelligent Systems, Analytical Systems, and Enterprise Management.

Keywords: Cloud Technologies; Intellectual Systems; Analytical Systems; Management Information Systems.

Overview of the Submissions

The development of the integrated computerized systems becomes the basic need of the current modern society, where it is almost impossible to live without integrated intelligent information systems. Due to the growth of these intelligent systems, one of the problems that society is facing today is the complexity and process management of these systems. Since intellectual systems are also playing a vital role in environmental and economic governance, therefore, it is very essential to provide a solution regarding a new paradigm of complex systems and process management.

Furthermore, cloud technologies are the newest effort in computing resources. Cloud technologies represent shift away from computing as a product that is bought, to computing as a service. These services sometimes are essential to implement in order to address the problem of complex process management and enterprise management system. These interesting facts and figures are published in the following articles.

Five articles present works developed on these topics:

- Efficiency of information management and analysis for industrial entrepreneurship.
- Integrated intelligent information and analytical system of man-agreement of a life cycle of products of transport companies.
- New realities of the enterprise management system information support: economic and mathematical models and cloud technologies.
- Strategic guidelines for the improvement of logistic activities of trade enterprises.
- Cloud Computing Technology Algorithms Capabilities in Managing and Processing Big Data in Business Organizations: MapReduce, Hadoop, Parallel Programming.

In today's world, technology has become large in several sectors inducing higher education. In higher education there is extensive use of computer and mobile technologies that include both – hardware and software. In education, there are two ways of internationalization, i.e., traditional and non-traditional. A detailed study of these aspects is discussed in the following interesting research.

Two submissions illustrate works in these areas:

- Technology enhanced internationalization in higher education, non-traditional indicators
- Intrapreneurial culture through think tanks in higher education institutions

One of the obstacles in higher education for teachers and decision-makers is curriculum development. The design of curriculum development requires extensive knowledge, design pattern, and teaching strategies. Some teachers in universities apply scientific methods to take

operational decisions for their curriculums advanced professional courses. An article that describes the contribution of a practical approach for curriculum design in the context of progressive and professional Management information Systems.

- An Operational Ontology for the Selection of Advanced Courses in Management Information Systems

Traffic flows in cities are rapidly growing due to the lack of commute facilities. With the rapid growth of traffic, the demand for intelligent monitoring of traffic flows also increases. Interesting research is presented where a client-server system has been built that allows locating real-time information regarding the basic features of traffic flows at any point using mobile devices.

Following article explains works in these areas:

- Method of Video-Measurements of Traffic Flow Characteristics at a Road Junction

The success of a business is determined by its strategic policies and business processes. To remain in the market, business policies must be competitive and beneficial to its consumers. The challenging facts and figures are presented regarding the business process, strategic contribution, and performance measures, that are further characterized.

- Strategic Contribution of a Business Process to Company's Performance

This article illustrates the three indicators, i.e., the added value of the business process, the share of the process for Critical Success Factors (CSF), the cost of the made changes.

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