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# INTEGRATED INFORMATION

International Conference on Integrated Information

Kos, Greece      September, 29 – October, 3 2011

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**All papers have been peer-reviewed**



**Piraeus, Greece, 2011**

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# **Preface: Proceedings of the International Conference on Integrated Information (IC-ININFO 2011)**

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## **Aims and Scope of the Conference**

The International Conference on Integrated Information 2011 took place in Kos Island, Greece, between September, 29 and October, 3, 2011. IC-ININFO is an international interdisciplinary conference covering research and development in the field of information management and integration.

The conference aims at creating a forum for further discussion for an Integrated Information Field incorporating a series of issues and/or related organizations that manage information in their everyday operations. Therefore, the call for papers is addressed to scholars and/ or professionals of the fields of Library and Archives Science (including digital libraries and electronic archives), Museum and Gallery Studies, Information Science, Documentation, Information Management, Records Management, Knowledge Management, Data management and Copyright experts the latter with an emphasis on Electronic Publications. Furthermore, papers focusing on issues of Cultural Heritage Management and Conservation Management are also be welcomed along with papers regarding the Management of Nonprofit Organizations such as libraries, archives and museums.

One of the primary objectives of the IC-ININFO will be the investigation of information-based managerial change in organizations. Driven by the fast-paced advances in the Information field, this change is characterized in terms of its impact on organizations that manage information in their everyday operations.

Grouping emerging technologies in the Information field together in a close examination of practices, problems and trends, IC-ININFO and its emphases on integration and management will present the state of the art in the field. Addressed jointly to the academic and practitioner, it will provide a forum for a number of perspectives based on either theoretical analyses or empirical case studies that will foster dialogue and exchange of ideas.

## **Topics of general Interest**

Library Science, Archives Science, Museum and Gallery Studies, Information Science, Documentation, Digital Libraries, Electronic Archives, Information Management, Records / Document Management, Knowledge Management, Data Management, Copyright, Electronic Publications, Cultural Heritage Management, Conservation Management, Management of Nonprofit Organizations, History of Information, History of Collections, Health Information

## **Symposia**

The Conference offered a number of sessions under its patronage, providing a concise overview of the most current issues and hands-on experience in information-related fields.

- Symposium on Integrated information: Theory, Policies, Tools
- 4th Symposium on Business and Management and Dynamic Simulation Models supporting management strategies

- Session on Open Access Repositories: Self-archiving, Metadata, Content policies, Usage
- Session on Evidence-Based Information in Clinical Practice
- Session on Business Management and Communication Strategies supporting Decision Making Process in Tourism Sector
- Session on Electronic Publishing: A Developing Landscape
- Session on Information and Knowledge Management
- Session on Information Content Preservation as Outcome of Conservation of Cultural Heritage: Ethics, Methodology and Tools
- Session on Advances Information for Strategic Management
- Session on Information History: Perspectives, Methods and Current Topics
- Session on Divergence and Convergence: Information Work in Digital Cultural Memory Institutions
- Session on Contemporary issues in Management: Organisational Behaviour, Information Technology, Education & Hospital leadership.

The wide range of aspects that the sessions covered, highlighted future trends in the Information Science.

### **Paper Peer Review**

More than 300 papers had been submitted for consideration in IC-ININFO 2011. From them, 91 were selected for presentation, after peer review in a double blind review process. The accepted papers were presented at IC-ININFO 2011.

### **Thanks**

We would like to thank all members that participated in any way in the IC-ININFO 2011 Conference and especially:

- The famous publishing house Emerald for its communication sponsorship.
- The co-organizing Universities and Institutes for their support and development of a high-quality Conference scientific level and profile.
- The members of the Scientific Committee that honored the Conference with their presence and provided a significant contribution to the review of papers as well as for their indications for the improvement of the Conference.
- All members of the Organizing Committee for their help, support and spirit participation before, during and after the Conference.
- The Session Organizers for their willing to organize sessions of high importance and for their editorial work, contributing in the development of valued services to the Conference.
- PhDC Marina Terzi for her excellent editorial work, contributing in the production of the Conference proceedings.

## CONFERENCE DETAILS

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Dimitris Kouis, Greek Ministry of Education, Lifelong Learning and Religious Affairs  
Dionysis Kokkinos, National Technical University of Athens

## KEYNOTE SPEAKER



Professor Amanda Spink

Professor Amanda Spink has published over 340 scholarly journal articles, refereed conference papers and book chapters, and 6 books. Many of her journal articles are published in the Journal of the American Society for Information Science and Technology, Information Processing and Management, and the Journal of Documentation. She is Editor of the Emerald journal Aslib Proceedings. Amanda's research has been published at many conferences including ASIST, IEEE ITCC, CAIS, Internet Computing, ACM SIGIR, and ISIC Conferences. Her recent books include Information Behavior: An Evolutionary Instinct and Web Search: Multidisciplinary Perspectives, both published by Springer. Amanda's research focuses on theoretical and empirical studies of information behavior, including the evolutionary and developmental foundations. The National Science Foundation, the American Library Association, Andrew R. Mellon Foundation, Amazon.com, Vivisimo. Com, Infospace.com, NEC, IBM, Excite.com, AlltheWeb.com, AltaVista.com, FAST, and Lockheed Martin have sponsored her research. In 2008 Professor Spink had the second highest H-index citation score in her field from 1998 to 2008 [Norris, M. (2008)]. Ranking Fellow Scholars and their H-Index: Preliminary Survey Results. Loughborough University, Dept of Information Science Report].

# Open Source Web Applications. How it Spread through the Internet and their Contribution to Education.

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**Abstract:** *Open Source Web Applications are all those applications that are accessible through the World Wide Web[1], and also their source code is open to anyone who wants to participate in their amendment. The benefits of the World Community from these applications are enormous. The use of open source applications begins already at school. At University it doesn't create just users, but develops students' programming skills. At the same time, it promotes and contributes to the research conducted by the academic community. Later, in the workplace, these applications are always useful and can help in all areas of daily work as well as in the development of a company. It's very important that the open source applications promote cooperation and exchange of knowledge between people, through discussion groups(forum), since they allow the simultaneous work. Furthermore, the benefits are economic as well, since it can be saved a great amount of financial resources, that would be spent for the purchase of the necessary software licenses[2].*

**Keywords:** *Dynamic simulation models, Open source web applications, Web 2.0[3], Education.*

## I. INTRODUCTION

In this research, we shall indicate that the Open Source Web Applications can turn out to be a "Social" tool[4], which may help to the communication of Global working groups[5], as much as the tool that aims to the communication of people from anywhere around the world, either for research or entertainment purposes. On the other hand, the social tools of the Internet due to the ease with which can be used, have managed to overcome all these limitations that existed in past years, when the access to knowledge and the usage of the internet was parlance for the few and highly qualified ones.

Finally, the open source web apps expand students' knowledge, offering them the opportunity to come into contact with people of other countries, through discussion groups on the internet (forum), to broaden their horizons beyond the boundaries of their countries and to derive "global" knowledge[6]. These applications give students the chance to join a global team that has the same goal: to create common tools.

To see whether in fact the field of higher education knows, uses and develops Open Source Web Applications, we conducted a qualitative and quantitative research[7] to students and professors of

Faculty of Sciences. The questions were, whether the students know, use and develop social software, whether professors use and promote Web Applications and whether Universities have the resources to develop and promote Open Source Web Application.

Based to the survey findings, we concluded that such applications are not widespread in the University community. Students do not know that Open Source applications can become a tool for everyday use, although some of them use those applications, without knowing that they belong to the open source applications.

So far, we come to the conclusion that Universities and professors should undertake the role of promoting the Open Source Web Applications, through the courses, in a way that more applications become familiar and useful to students.

This will result in the actual evolution of open source web applications, as more people will be involved in their use and development.

## II. METHODS

### A. Dynamic Simulation Model

The conjunction between Open Source Web Applications, professors, students and knowledge gained by students who know and develop such applications, is dynamic. There has been conducted a qualitative and quantitative research in 1000 students and 100 professors of Faculties of Sciences.

As shown by the dynamic simulation model, the results change, every time we modify the provision of the existed resources to the factors. Depending on the resources that are provided by the University, involving money, personnel, personnel training and classrooms, the percentage of students who know and develop open source applications changes qualitatively, as much as quantitatively.

**A.1. Reasons to create the simulation model**  
In order to highlight, in the best way we can, the problem among students, Universities and Open Source Web Applications, we created the Dynamic Simulation Model. The main reasons are listed below.

1. Comparison between Web Applications and Web Open Source Applications.
2. Savings for the University.
3. Developing students' skills and knowledge.
4. Benefits for the finished products, **due** to the free availability of the source code.



projects of public interest.

- Information and gradual promotion of the use of social software in order to encounter specific needs in different fields of the public sector.
- Provision of information to companies on the benefits of the use or transition to social software.
- Encouragement of the development of Open Source Web Applications by the academic community itself.
- Technical support and pedagogical guidance during the development and adaptation of educational software[9], as well as evaluation of products and services.
- Training of the academics and professors[10] in the pedagogical reclamation of the educational material that is produced (software, activities, etc.) and installation and management of social software.
- Promotion of the production of social software in Universities in team work.
- Creation of courses that are based on the use of multimedia software[11] for education.

### III. CONCLUSIONS

Learning and using the Open Source Internet based Apps, gives the students qualities and skills that can be a sustainable competitive advantage in the labor arena.

At the same time, that makes them aware of a technology that will be of fundamental importance for the future communication.

These conclusions arise, despite the fact that throughout the course of our investigation, we examined a small sample of the new technologies and internet sites that encourage users to create and share content.

The use of social tools of communication that enables the common and real-time collaboration is a constantly growing tendency. An example is the use of video conference[12] that enables a new telecommunication with electronic display of participants. It also enables online real-time communication (video-call), such as Skype[13], as well as the exchange of personal views, such as Facebook[14], where, additional to the communication, people can exchange files and games. A good example of real-time online work is the combination of business oriented Gmail with the video-call of Gtalk.

Eventually, the use of Open Source Web Applications, also contributes to the economy of a country. Many studies have demonstrated the positive contribution of open source products to economy, especially in countries with smaller production sizes[15].

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