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INTEGRATED INFORMATION

International Conference on Integrated Information

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CONTENTS

PREFACE: Proceedings of the International Conference on Integrated Information (IC-INFO 2011) 1
Georgios A. Giannakopoulos, Damianos P. Sakas

Conference Details 3

Keynote Speaker 5

SYMPOSIUM ON INFORMATION AND KNOWLEDGE MANAGEMENT 6
Prof. Christos Skourlas

Towards the Preservation and Availability of Historical Books and Manuscripts: A Case Study 8
Eleni Galiotou

An Extensive Experimental Study on the Cluster-based Reference set Reduction for Speeding-up the k-nn Classifier 12
Stefanos Ougiaroglou, Georgios Evangelidis and Dimitris A. Dervos

Exploiting the Search Culture Modulated by the Documentation Retrieval Applications 16
Nikitas N. Karanikolas and Christos Skourlas

Information and Knowledge Organization: The Case of the TEI of Athens 22
Anastasios Tsolakidis, Manolis Chalaris and Ioannis Chalaris

Providing Access to Students with Disabilities and Learning Difficulties in Higher Education through a Secure Wireless framework 26
Catherine Marinagi and Christos Skourlas

Improving Query Efficiency in High Dimensional Point Indexes 30
Evangelos Outsios and Georgios Evangelidis

Text Segmentation Using Named Entity Recognition and co-Reference Resolution in Greek Texts 34
Pavlina Fragkou

KINISIS, a Graphical XQuery Language 42
Euclid Keramopoulos, Achilleas Pliakas, Konstantinos Tsekos and Ignatios Deligiannis

Dimensionality Curse, Concentration Phenomenon and the KDB-tree 46
Nikolaos Kouiroukidis and Georgios Evangelidi

Applying Balanced Scorecard Strategic Management in Higher Education **50**
Manolis Chalaris, Anastasios Tsolakidis and Ioannis Chalaris

A Web Portal Model for NGOs' Knowledge Management **54**
Zuhal Tanrikulu

The Digital Archives System and Application Optimized for the Tradition Knowledge Archives **58**
Jeon Hong. Chan, In Deok. Hwang, Jae Hak. Park, Hyeok. Sim, U won. Gwon and Soon Cheol. Park

A Semi-automatic Emerging Technology Trend Classifier Using SCOPUS and PATSTAT **62**
Seonho Kim, Woondong Yeo, Byong-Youl Coh, Waqas Rasheed, Jaewoo Kang

Presenting a Framework for Knowledge Management within a Web Enabled Living Lab **66**
Lizette de Jager and Albertus AK Buitendag and Potjie (JS) van der Walt

4TH SYMPOSIUM ON BUSINESS AND MANAGEMENT AND DYNAMIC SIMULATION MODELS SUPPORTING MANAGEMENT STRATEGIES **71**
Dr. Damianos Sakas

New Political Communication Practices: No Budget Events Management. The New Challenge **73**
Evangelia N. Markaki, Damianios P. Sakas and Theodore Chadjipantelis

Free Software – Open Source Software. A Powerful Tool for Developing Creativity in the Hands of the Student **78**
Nasiopoulos K. Dimitrios, Damianos P. Sakas, Konstantinos Masselos

Open Source Web Applications. How it Spread Through the Internet and their Contribution to Education. **82**
Nasiopoulos K. Dimitrios, Damianos P. Sakas, Konstantinos Masselos

Culture in Modern Times in the Frame of Luhmann's System Theory **85**
Anastasia J. Chournazidis

Managing Scientific Journals: A Cultural Viewpoint **87**
Marina C. Terzi, Damianos P. Sakas, and Ioannis Seimenis

A Conceptual Framework for Analyzing Knowledge-based Entrepreneurship **92**
Nikos S. Kanellos

SESSION ON INFORMATION HISTORY: PERSPECTIVES, METHODS AND CURRENT TOPICS **96**
Prof. Laszlo Karvalics

Emerging Research Fields in Information History **98**
Laszlo Z. Karvalics

Information Management through Elementary Data Clusters: New Observations on Pridianum-Type Roman Statistical Documents **102**
Gergő Gellérfi

Information and Secrecy on the Silk Road. Methods of Encryption of Legal Documents in Inner Asia (3th-4th century) **106**
Szabolcs Felföldi

The Role of Information and Disinformation in the Establishment of the Mongolian Empire: A Re-examination of the 13th century Mongolian History from the Viewpoint of Information History **110**
Márton Gergő Vér

Early Warning Systems and the Hospitallers in the Eastern Mediterranean **114**
Zsolt Hunyadi

Information Management as Establishment Dutch Navigational Knowledge on Japan, 1608-1641 **118**
Gabor Szommer

Files Everywhere - Register and Training of Men for Military and Civil Purpose in Prussia in the early 18th century **123**
Marton Holczer

SYMPOSIUM ON INTEGRATED INFORMATION: THEORY, POLICIES, TOOLS **126**
Prof. Georgios Giannakopoulos

Approaching Information as an Integrated Field: Educating Information Professionals **128**
Georgios Giannakopoulos, Daphne Kyriaki Manesi and Sryridon Zervos

Special Libraries as Knowledge Management Centers **132**
Eva Semertzaki

Digital Libraries' Developers and their Suitability: A Case Study **136**
Maria Monopoli

A Preliminary Study for the Creation of a Greek Citation index in the Humanities and the Social Sciences (GCI – H&SS) **140**
Daphne Kyriaki-Manessi and Evi Sachini

Archiving as an Information Science. Evidence from a Survey Carried out on a Sample of Greek Students **144**
Georgios Giannakopoulos and Ioannis Koumantakis

Transition Process of E-records Management and Archiving System in Universities: Ankara University **147**
S. Özlem Bayram and Fahrettin Ozdemirci

Government Information: Access and Greece's Efforts for Access **150**
Aikaterini Yiannoukakou

School Archives and their Potentials in Teaching: Aspects of Greek Reality **156**
Sonia Geladaki and Panagiota Papadimitriou

Research on School Libraries in Greece and Suggestions on its Further Development **160**
Georgios D. Bikos

Building Digital Collections for Archeological Sites: Metadata Requirements and CIDOC CRM Extension **164**
Georgios S. Gkrous and Mara Nikolaidou

Museological Claims to Autonomous Knowledge: Rethinking the Conceptual Mode of Display and its Claims to Knowledge **169**
Assimina Kaniari and Georgios Giannakopoulos

Use of Library Loan Records for Book Recommendation **172**
Keita Tsuji, Erika Kuroo, Sho Sato, Ui Ikeuchi, Atsushi Ikeuchi, Fuyuki Yoshikane and Hiroshi Itsumura

Developing a National Database on Librarianship and Information Science. The Case of E-VIVA, the Hellenic Fulltext Database **176**
Filippos Ch. Tsimpoglou, Vasiliki V. Koukounidou and Eleni K. Sakka

Integrated Access to Cultural Heritage Information Pieces in Iran Astan-Quds Razavi's Organization of Libraries, Museums and Documents Center: A Theory of Unionization Disparate Information Assets over Imam Reza's Zarih **181**
Ms. Mitra Zarei and Ms. Maliheh Farrokhnia

Attitudes of University Librarians and Information Scientists towards the Draft Code of **185**

Library Ethics to Present a Model for Final Library Ethical Codes
Mahsoomeh Latifi, Fatemeh Zandian and Hasan Siamian

SESSION ON OPEN ACCESS REPOSITORIES: SELF-ARCHIVING, METADATA, CONTENT POLICIES, USAGE 188
Dr. Alexandros Koulouris

Geographical Collections in Greek Academic Libraries: Current Situation and Perspectives 189
Ifigenia Vardakosta and Sarantos Kapidakis

Information Seeking Behavior: Factors that Affect the Behavior of Greek Astronomers 194
Hara Brindesi and Sarantos Kapidakis

Aggregating Metadata for Europeana: The Greek Paradigm 198
Alexandros Koulouris, Vangelis Banos and Emmanouel Garoufallou

Integrating a Repository with Research Output and Publications: The Case of the National Technical University of Athens 202
Dionysis Kokkinos

Implementation of Workflows as Finite State Machines in a National Doctoral Dissertations Archive 205
Nikos Houssos, Dimitris Zavaliadis, Kostas Stamatis and Panagiotis Stathopoulos

Practices of "Local" Repositories of Legally Protected Immovable Monuments. A Global Scheme for 'Designation – Significance' Information 209
Michail Agathos and Sarantos Kapidakis

Integration of Metadata in BWMETA-2.0.0 Format 213
Katarzyna Zamlynska, Jakub Jurkiewicz and Lukasz Bolikowski

SESSION ON EVIDENCE-BASED INFORMATION IN CLINICAL PRACTICE 216
Dr. Evangelia Lappa

Applicability of Data Mining Algorithms on Clinical Datasets 218
Wilfred, Bonney

Changing Roles of Health Librarians with Open Access Repositories 221
Christine Urquhar and Assimina Vlachaki

From Medical Records to Health Knowledge Management Systems: The Coding to Health Sector 225
Evangelia C. Lappa and Georgios A. Giannakopoulos

The Survey of Skill, Attitude and Use of Computer and Internet among Faculty Members **229**
Hasan Siamian, Azita Bala Ghafari, Kobra Aligolbandi, Mohammad Vahedi and Gholam Ali Golafshani Jooybari

Trends in Scholarly Communication among Biomedical Scientists in Greece **232**
Assimina Vlachaki and Christine Urquhart

SESSION ON ELECTRONIC PUBLISHING: A DEVELOPING LANDSCAPE **236**
Dr. Dimitris Kouis

E-Journal and Open Access Journal Publishing in the Humanities: Preliminary Results from a Survey among Byzantine Studies Scholars **238**
Victoria Tsoukala and Evi Sachini

Preliminary Results on a Printed VS Electronic Text Books Assessment Through Questionnaire **242**
Dimitrios A. Kouis and Kanella Pouli

An Interpretation of Aristotelian Logic According to George Boole **246**
Markos N. Dendrinos

SESSION ON INFORMATION CONTENT PRESERVATION AS OUTCOME OF CONSERVATION OF CULTURAL HERITAGE: ETHICS, METHODOLOGY AND TOOLS **251**
Prof. George Panagiaris and Dr. Spiros Zervos

Intrinsic Data Obfuscation as the Result of Book and Paper Conservation Interventions **254**
Spiros Zervos, Alexandros Koulouris and Georgios Giannakopoulos

Mass Deacidification: Preserving More than Written Information **258**
Michael Ramin, Evelyn Eisenhauer and Markus Reist

Information Literacy of Library Users: A Case Study of Mazandaran Public Library Users, Iran **260**
Hussein Mahdizadeh and Hasan Siamian

The Narratives of Paper in The Archives of the New Independent Greek State (Mid 19th c.) **264**
Ourania Kanakari and Maria Giannikou

From Macro to Micro and from Micro to Nano: The Evolution of the Information Content Preservation of Biological Wet Specimen Collections **268**
Nikolaos Maniatis and Georgios Panagiaris

Digital images: A valuable scholar's tool or misleading material? **272**
Patricia Engel

Attitudes of University Librarians and Information Scientists Towards the Draft Code of Library Ethics to Present a Model for Final Library Ethical Codes **277**
Mahsoomeh Latifi, Fatemeh Zandianand and Hasan Siamian

Investigation of the Degradation Mechanisms of Organic Materials: From Accelerated Ageing to Chemometric Studies **280**
Ekaterini Malea, Effie Papageorgiou and Georgios Panagiaris

SESSION ON DIVERGENCE AND CONVERGENCE: INFORMATION WORK IN DIGITAL CULTURAL MEMORY INSTITUTIONS **285**
Dr. Susan Myburgh

Extending Convergence and Divergence in Cultural Memory Institutions: The Old Slave Lodge in the New South Africa **287**
Archie L Dick

The Transfer of Knowledge from Large Organizations to Small: Experiences from a Research Project on Digitization in Wales **289**
Clare Wood-Fisher, Richard Gough, Sarah Higgins, Menna Morgan, Amy Staniforth and Lucy Tedd

The Usage of Reference Management Software (Rms) in an Academic Environment : A Survey at Tallinn University **293**
Enrico Francese

Varialog : How to Locate Words in a French Renaissance Virtual Library **297**
Marie-Hélène Lay

The Urge to Merge: A Theoretical Approach **301**
Susan Myburgh

SYMPOSIUM ON ADVANCES INFORMATION FOR STRATEGIC MANAGEMENT **304**
Professor Nikolaos Konstantopoulos

Empowerment in the Tax Office of Greece **306**
Antonios E. Giokas and Nikolaos P. Antonakas

Building Absorptive Capacity Through Internal Corporate Venturing **310**
Ioannis M. Sotiriou and Alexandros I. Alexandrakis

The Monitoring Information System (M.I.S.) - An information and Management System for Projects Co-financed Under the National Strategic Reference Framework (NSRF) and the Community support framework (CSF) **314**
Catherina G. Siampou, Eleni G. Fassou and Athanassios P. Panagiotopoulos

Corruption in Tax Administration: The Entrepreneurs View Point **318**
Nikolaos P. Antonakas, Antonios E. Giokas and Nikolaos Konstantopoulos

Conflicts between the IT Manager and the Software House after the Strategic Choice of Outsourcing of the Information Processes in Maritime Companies. **322**
Anthi Z. Vaxevanou, Nikolaos Konstantopoulos, Damianos P. Sakas

Contemporary Forms of Ordering Between the Supply Department and Ship Chandler Companies in the Shipping Industry **325**
Anthi Z. Vaxevanou, Nikolaos Konstantopoulos, Damianos P. Sakas

Strategies Implemented and Sources Used for the Acquisition of Information on Foreign Markets **329**
Myropi Garri, Nikolaos Konstantopoulos and Michail G. Bekiaris

The Effect of High Performance Working Systems on Informative Technology in Enterprises after Organisation Changes such as Mergers & Acquisitions **333**
Nikolaos Konstantopoulos and Yiannis Triantafyllopoulos

Personnel's Absorptive Capacity as a Guiding Concept for Effective Performance in Informative Technology **337**
Nikolaos Konstantopoulos and Yiannis Triantafyllopoulos

SESSION ON CONTEMPORARY ISSUES IN MANAGEMENT: ORGANISATIONAL BEHAVIOUR, INFORMATION TECHNOLOG, EDUCATION & HOSPITAL LEADERSHIP **341**
Dr. Panagiotis Trivellas

Investigating the Importance of Sustainable Development for Hotel SMES **343**
Panagiotis Reklitis and Anestis Fotiadis

Strategic Alignment of ERP, CRM and E-business: A Value Creation **347**
Catherine C. Marinagi and Christos K. Akrivos

The Impact of Occupational Stress on Performance in Health Care **351**
Panagiotis Trivellas Panagiotis Reklitis and Charalambos Platis

The Impact of Emotional Intelligence on Job Outcomes and Turnover Intention in Health Care **356**
Panagiotis Trivellas Vassilis Gerogiannis and Sofia Svarna

SYMPOSIUM ON BUSINESS MANAGEMENT AND COMMUNICATION STRATEGIES SUPPORTING DECISION MAKING PROCESS IN TOURISM SECTOR **360**
Dr. Panagiota Dionysopoulou

The Human Factor as a Mediator to the Total Quality in the Tourism Companies. The impact of Employees' Motivation to Quality Improvements **362**
Christos K. Akrivos and Panagiotis Reklitis

Tourist Destination Marketing and Management Using Advanced ICTS Technologies **365**
Anastasia Argyropoulou, Panagiota Dionyssopoulou, Georgios Miaoulis

G.N.T.O. (Greek National Tourism Organization) Communication Strategy in Advertising Campaigns 1991-2006 **370**
George Stafylakis and Panagiota Dionyssopoulou

GENERAL PAPERS **375**

The role of Environmental Education within the Framework of the Environmental Policy of a Regional Municipality **376**
Vassiliki Delitheou and Dimitra Thanasia

Issues of Social Cohesion: A case study from the Greek Urban Scenery **380**
Evgenia Tousi

Merging Activity and Employee Performance: The Greek Banking System **384**
Panagiotis Liargovas and Spyridon Repousis

Sustainable Development and Corporate Social Responsibility in Higher Education: Some Evidence from Greece **387**
Anastasios Sepetis and Fotios Rizos

Exploring the Effects of Organizational Culture on Collaborative vs. Competitive Knowledge Sharing Behaviors **395**
Hanan Abdulla Mohammed Al Mehairi and Norhayati Zakaria

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 Rrepositories: 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

Chairs

Georgios A. Giannakopoulos, Technological Educational Institute of Athens, Greece
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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].

A Preliminary Study for the Creation of a Greek Citation Index in the Humanities and the Social Sciences (GCI – H&SS)

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Abstract: *This preliminary study aims at examining the major policy issues regarding the formation of a Greek Citation Index. The National Documentation Centre in 2011 has undertaken the task and it is at the stage of establishing policies and setting the goals, the parameters and the collaborations for the currying out of the project. The study examines issues such as:*

a. the selection of humanities and social sciences as a start of point for the citation index,

b. the need to set the goals and objectives of the index in view of the use of impact factor for the assessment of academics and the issues arising from such practices

c. the comparison of international to national production of citation indices

d. the mechanism needed to establish policies regarding the use of standards, selection of material, the compliance with repository policies and open access practices

e. the need to assess the situation within the framework of language (and alphabet) differences, demographics and audience, scientific production within the need to make Greek scientific publications available to the international scientific community and finally

f. the decision regarding the creation of an independent national citation index or incorporate it as a part of one of the international citation indices (ERIH, Web of Science, Scopus)

Keywords: *Citation index, Humanities*,

I. PURPOSE

This preliminary study aims at exploring the major issues regarding policies for the creation of a Greek Citation Index in the Humanities and the Social Sciences (GCI – H&SS). It also serves, as a guideline for decision making and the implementation of the GCI – H&SS.

II. METHODOLOGY

A. Methods

An initial investigation was carried out to determine the international practices on the formation of citation indexes, especially on the most widely known Citation Index by the Institute for Scientific Information (Thomson Reuters)[3] and Scopus (Elsevier)[4] and the European Reference Index for the Humanities (ERIH)[5] along with some national efforts with main example the Indian Citation Index (ICI)[6] and the Spanish Citations in Economics (CitEc)[7] carried out by the Valencia Economic Research Institute. In that respect a literature review was carried out along with a web search and applied inquiries on the major citation indices available today on line[8].

Goals, policies on inclusion of published research, issues on impact factor, major concerns on distribution and use were examined within the Greek parameters imposed by language barriers, readability and usability.

B. The project's framework

The National Documentation Centre, got a grant from the EU Funded Program "Digital Plan" with the title "National Information System for Research and Technology- Social Networks – Digital Content produced by users: Documentation". One of the main activities of the project is the creation of the "Greek Reference Index". The project has just started in March 2011 and this study is the preliminary findings regarding the undertaking.

The project was launched with a focus on the humanities and the social sciences as it was evident that the lack of any resources on those disciplines made the project even more imperative. Greek scientists, due to the nature of their disciplines publish their work in international journals which are indexed either in the Web of

[3] Social Science Citation Index (2011). Thomson Reuters. http://thomsonreuters.com/products_services/science/science_products/a-z/social_sciences_citation_index/

[4] Sciverse (2011). Elsevier. http://www.info.sciverse.com/Home

[5] European Science Foundation (2011). European Reference Index for the Humanities http://www.esf.org/research-areas/humanities/erih-european-reference-index-for-the-humanities.html

[6] Indian Citation Index (2011). The Knowledge Foundation. http://www.indiancitationindex.com/ici.aspx?target=aboutICI

[7] Citations in Economics (2011). Valencia Economic Research Institute. http://citec.repec.org/faq.html

[8] See Table 1

Science or Scopus. Contrary to that, researchers in the humanities and especially those with subjects related to Greek history, literature and culture publish mostly in Greek journals which are not indexed locally and are not part of international indices. At this point it should be mentioned that there are no Greek indexing services available. Therefore, the need to focus on humanities and the social sciences was evident as the lack of an index on materials, not indexed anywhere, would cover a definite scientific and informational need.

C. **Process and methodology**

As a first step the fields of humanities and social sciences were depicted and prioritized by weighing the needs of use, volume of production by Greek scholars and subjects of "Greek" interest such as Greek literature, Greek civilization and Greek history.

Secondly, a pilot search was conducted for determining the Greek scientific periodicals published in the humanities and the social sciences. The preliminary search yielded 45 journals on the humanities and 40 on the social sciences. It was evident that these journals represented the top scientific production and their publishers were mostly research institutes and universities.

The need to go further and locate locally produced and commercial scientific publications lead to the development of a strategic plan based on the following axes:

- search of Greek bibliographic databases including the National Library's catalogues, academic libraries' union catalogue and subject bibliographic databases developed by the National Documentation Centre
- search of publishers' catalogues
- university and research centre publications and related activities
- search through the repository databases
- and web search targeting mostly e- journals (McVeigh, 2004)[9]

A selection process was developed based on:

Step 1: determination of publication type

During this first process a policy was formulated excluding reprints, non scientific newsletters and works of popular science.

Step 2: data collected through bibliographic description such as publisher, frequency, volume of publications, endurance through time and type of publisher are to be input on a form and publications will go to the third step for further description

Step 3: full description of publication

- Data regarding the status of the publisher, his yearly production, his collaborations with scientific institutions and his length of presence on publishing are to be documented.
- Size of publication, nature of works included, their length, frequency of publication, indexing, distribution and availability are also to be documented
- Publishing policies focusing mostly on peer reviewing processes, percentage of acceptances and standardization of references are also to be recorded.

Based on the above a weighing indicator is to be developed based mostly on the frequency that each criterion is met and by the corresponding number of publications. A "priority" list will be formulated that will indicate the succession of publications for the indexing process.

At this point, a discussion on developing a scaled categorization for publications was extensively discussed but after examining the pros and cons the idea was discarded. The benefits of such a list would be only for an internal management for the index whilst this could bring about an arbitrary categorization and pose a threat of mistrust for the index in the scientific community.

The collection of data is set to be done online through the National Documentation Centre's web page where all information regarding the project and the relevant form to be filled will be posted.

Special committees per discipline are to be formed to evaluate the data collected per publication and approve its incorporation in the Citation Index.

D. **Major issues and concerns**

Some of the major issues discussed regarding the inclusion of publications in the Greek Citation Index include:

- Inclusion of past issues of journals and retrospective indexing. In this respect the policy is to start from the current issues and go on retrospectively starting from the most recent ones and going backwards
- Setting a cutoff date for submissions of data by publishing bodies for inclusion in the index. This policy, though convenient for the time management of the project, is still under consideration as it entails the danger of leaving out several worthwhile publications
- Inclusion of dissertations. This is a process normally done by universities as a measure of scientific quality. However, the NDC is the official body of gathering and cataloguing all Greek dissertations and has an extensive database of dissertations produced in Greek

[9] Marie McVeigh. Open Access journals in the ISI Citation Database: Analysis of impact factors and citation patterns. Thomson Scientific. October 2004. http://science.thomsonreuters.com/m/pdfs/openaccesscitations2.pdf

Universities and/or dissertations produced by Greeks abroad. In this respect, it seems that a Citation Index carried out by the NDC is almost expected to include the dissertations.

- balancing the representation of sciences and
- balancing between influx and lack of sources

An issue that is also under discussion is the production of indicators based on data gathered from the citation index such as impact factor, aggregated impact factor and immediacy index. Given the interest in scientometrics (Harnad, 2008)[10] and webometrics (Björneborn and Ingwersen, 2004)[11] this is a highly expected product of the project and the academic community is looking forward to it. In spite of the long discussion and often abusive use of impact factor in Greek academic selection of faculty members, the value of the impact factor indicator stands in itself as a means of scientometrics. On that note we point out that, Greek academic journals in the humanities being secluded by language the barrier and the restrictions imposed by the lack of indexing end up having citations that are characterized by:

- Their truthfulness
- Their thorough investigation
- The lack of standardization (formats such as Harvard or Chicago Manual of Style), though they present full data
- The lack of wide-ranging citations
- Extensive referrals to foreign publications (this is mostly due to the availability of sources such as databases and indexes)

In that respect we believe that the data gathered from these publications will reflect a "real" impact factor (EASE 2008)[12] to journals. Difficulties, such as the lack of standardization can be overcome easily.

Finally, another major issue that is on the top of the agenda for the National Documentation Centre is the creation of an independent "Greek Citation Index" or to make it as a part of an international effort such as ERIH, SSCI or Scopus. From the preliminary steps of this effort contact has been made with the European effort of ERIH, where a contribution to the index is on the way. This however, does not exclude the possibility of creating a national index that contributes to the European (ERIH), very much like the model of Europeana Library and Europeana Local Library.

Index	Proprietor	Includes	Available through
Google scholar	Google	All	Google
Science Citation Index	Thomson Reuters	6,500 journals 150 sciences 1900 onwards	Web of Sci / Web of Kno
Social Science Citation Index	Thomson Reuters	2,474 journals 50 sciences 1956 onwards	Web of Sci
Arts and Humanities Citation Index	Thomson Reuters	1.300 journals 16 sciences of the humanities 1980 onwards	Dialog
Patents Citation Index	Thomson Reuters	7.8 million patents	Dialog
Scopus	Elsevier	18,500 titles Sciences, social sciences, health sciences, applied sciences, humanities, arts	Web / subscription
ERIH	European Science Foundation	14,000 journals Humanities	Web/ Free
Indian Citation Index	Knowledge Foundation	1,000 journals All subjects	Knowledge Foundation / subscription
Citations in Economics	VERI	302,400 items Economics	Web/free

Table 1 Citation indexes

The major concern for creating an index which will be part of the international and commercial effort of ISI or Elsevier (SSCI and Scopus) is that the parameters imposed for journal inclusion are not always relevant or applicable to Greek scientific publishing. For example, significant journals do not follow standards for citations or their rate of recurrence is not regular having lengthy intervals between issues etc. These facts will have a

[10] Harnad, S. (2008) Validating Research Performance Metrics Against Peer Rankings. *Ethics in Science and Environmental Politics*, 8 (11). Ανακτήθηκε 9/7/2011 http://eprints.ecs.soton.ac.uk/15619

[11] Lennart Björneborn and Peter Ingwersen (2004). "Toward a basic framework for webometrics". *Journal of the American Society for Information Science and Technology* **55** (14): 1216–1227. Retrieved 8/7/2011 http://onlinelibrary.wiley.com/doi/10.1002/asi.20077/

[12] It is worth noting the statement of the European Association of Scientific Editors regarding the use of impact factor, a great discussion is debating not the production but rather the use of impact factor. European Association of Scientific Editors (2008). **EASE statement on inappropriate use of impact factors.** http://www.ease.org.uk/artman2/uploads/1/EASE_statement_IFs_final.pdf

fatal effect on Greek scientific journals when put into the framework of citation indices such as Scopus or SSCI. Furthermore, language barriers have to be dealt with in any case, even in the case of a national index. NDC is planning a bilingual index so as to meet one of the main goals of the work to make Greek scientific production available to their international counterparts.

III. CONCLUSIONS

Stating the goals and objectives of the Greek Citation Index

Based on the findings of the preliminary research, the initial scope and goals of the Index became more definite and precise. The initial scope of creating a tool for the use of Greek researchers and information professionals in the humanities and the social sciences was formulated and further specified to encompass:

- ✓ The enhancement of research
- ✓ The revealing of Greek scientific production - which is published in Greek language and not indexed- through the use of indexing metadata in English
- ✓ The application of bibliometric, scientometric and webometric methods
- ✓ The adoption of international indicators, such as impact factor, aggregated impact factor and immediacy index and their implementation within the Greek environment. Parameters arising from language, demographics and publishing practices of the country will be taken into account.
- ✓ The promotion of scientific works, their authors and their publishers
- ✓ The availability of the aforementioned material to the international scientific community

And specifically to create:

- ✓ A tool to be used by researchers in the humanities and the social sciences in order to draw from, verify and substantiate scientific references; to enhance collaboration among colleagues and institutions and to provide the basic means for scientometrics.
- ✓ A tool to be used by information professionals in order to enhance information retrieval in specific fields; to improve subject organization of scientific publications; to provide the basic means for measuring use of information sources, along with the boosting of the use of repositories, the exchange of data and the use of standards.

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