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INTEGRATED INFORMATION

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All papers have been peer-reviewed



Piraeus, Greece, 2011

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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 Prof. Christos Skourlas	6
Towards the Preservation and Availability of Historical Books and Manuscripts: A Case Study Eleni Galiotou	8
An Extensive Experimental Study on the Cluster-based Reference set Reduction for Speeding-up the k-nn Classifier Stefanos Ougiaroglou, Georgios Evangelidis and Dimitris A. Dervos	12
Exploiting the Search Culture Modulated by the Documentation Retrieval Applications Nikitas N. Karanikolas and Christos Skourlas	16
Information and Knowledge Organization: The Case of the TEI of Athens Anastasios Tsolakidis, Manolis Chalaris and Ioannis Chalaris	22
Providing Access to Students with Disabilities and Learning Difficulties in Higher Education through a Secure Wireless framework Catherine Marinagi and Christos Skourlas	26
Improving Query Efficiency in High Dimensional Point Indexes Evangelos Outsios and Georgios Evangelidis	30
Text Segmentation Using Named Entity Recognition and co-Reference Resolution in Greek Texts Pavlina Fragkou	34
KINISIS, a Graphical XQuery Language Euclid Keramopoulos, Achilleas Pliakas, Konstantinos Tsekos and Ignatios Deligiannis	42
Dimensionality Curse, Concentration Phenomenon and the KDB-tree Nikolaos Kouiroukidis and Georgios Evangelidi	46

Applying Balanced Scorecard Strategic Management in Higher Education Manolis Chalaris, Anastasios Tsolakidis and Ioannis Chalaris	50
A Web Portal Model for NGOs' Knowledge Management Zuhal Tanrikulu	54
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 Lizette de Jager and Albertus AK Buitendag and Potjie (JS) van der Walt	66
4TH SYMPOSIUM ON BUSINESS AND MANAGEMENT AND DYNAMIC SIMULATION MODELS SUPPORTING MANAGEMENT STRATEGIES Dr. Damianos Sakas	71
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 Anastasia J. Chournazidis	85
Managing Scientific Journals: A Cultural Viewpoint Marina C. Terzi, Damianos P. Sakas, and Ioannis Seimenis	87
A Conceptual Framework for Analyzing Knowledge-based Entrepreneurship Nikos S. Kanellos	92

SESSION ON INFORMATION HISTORY: PERSPECTIVES, METHODS AND CURRENT TOPICS	96
Prof. Laszlo Karvalics	
Emerging Research Fields in Information History Laszlo Z. Karvalics	98
Information Management through Elementary Data Clusters: New Observations on Pridianum-Type Roman Statistical Documents Gergő Gellérfi	102
Information and Secrecy on the Silk Road. Methods of Encryption of Legal Documents in Inner Asia (3th-4th century) Szabolcs Felföldi	106
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 Márton Gergő Vér	110
Early Warning Systems and the Hospitallers in the Eastern Mediterranean Zsolt Hunyadi	114
Information Management as Establishment Dutch Navigational Knowledge on Japan, 1608-1641 Gabor Szommer	118
Files Everywhere - Register and Training of Men for Military and Civil Purpose in Prussia in the early 18th century Marton Holczer	123
SYMPOSIUM ON INTEGRATED INFORMATION: THEORY, POLICIES, TOOLS Prof. Georgios Giannakopoulos	126
Approaching Information as an Integrated Field: Educating Information Professionals Georgios Giannakopoulos, Daphne Kyriaki Manesi and Sryridon Zervos	128
Special Libraries as Knowledge Management Centers Eva Semertzaki	132
Digital Libraries' Developers and their Suitability: A Case Study Maria Monopoli	136

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 Aikaterini Yiannoukakou	150
School Archives and their Potentials in Teaching: Aspects of Greek Reality Sonia Geladaki and Panagiota Papadimitriou	156
Research on School Libraries in Greece and Suggestions on its Further Development Georgios D. Bikos	160
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 Keita Tsuji, Erika Kuroo, Sho Sato, Ui Ikeuchi, Atsushi Ikeuchi, Fuyuki Yoshikane and Hiroshi Itsumura	172
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 Ifigenia Vardakosta and Sarantos Kapidakis	189
Information Seeking Behavior: Factors that Affect the Behavior of Greek Astronomers Hara Brindesi and Sarantos Kapidakis	194
Aggregating Metadata for Europeana: The Greek Paradigm Alexandros Koulouris, Vangelis Banos and Emmanouel Garoufallou	198
Integrating a Repository with Research Output and Publications: The Case of the National Technical University of Athens Dionysis Kokkinos	202
Implementation of Workflows as Finite State Machines in a National Doctoral Dissertations Archive Nikos Houssos, Dimitris Zavaliadis, Kostas Stamatis and Panagiotis Stathopoulos	205
Practices of "Local" Repositories of Legally Protected Immovable Monuments. A Global Scheme for 'Designation – Significance' Information Michail Agathos and Sarantos Kapidakis	209
Integration of Metadata in BWMETA-2.0.0 Format Katarzyna Zamlynska, Jakub Jurkiewicz and Lukasz Bolikowski	213
SESSION ON EVIDENCE-BASED INFORMATION IN CLINICAL PRACTICE Dr. Evangelia Lappa	216
Applicability of Data Mining Algorithms on Clinical Datasets Wilfred, Bonney	218
Changing Roles of Health Librarians with Open Access Repositories Christine Urquhar and Assimina Vlachaki	221
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 Hasan Siamian, Azita Bala Ghafari, Kobra Aligolbandi, Mohammad Vahedi and Gholam Ali Golafshani Jooybari	229
Trends in Scholarly Communication among Biomedical Scientists in Greece Assimina Vlachaki and Christine Urquhart	232
SESSION ON ELECTRONIC PUBLISHING: A DEVELOPING LANDSCAPE Dr. Dimitris Kouis	236
E-Journal and Open Access Journal Publishing in the Humanities: Preliminary Results from a Survey among Byzantine Studies Scholars Victoria Tsoukala and Evi Sachini	238
Preliminary Results on a Printed VS Electronic Text Books Assessment Through Questionnaire Dimitrios A. Kouis and Kanella Pouli	242
An Interpretation of Aristotelian Logic According to George Boole Markos N. Dendrinos	246
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 Spiros Zervos, Alexandros Koulouris and Georgios Giannakopoulos	254
Mass Deacidification: Preserving More than Written Information Michael Ramin, Evelyn Eisenhauer and Markus Reist	258
Information Literacy of Library Users: A Case Study of Mazandaran Public Library Users, Iran Hussein Mahdizadeh and Hasan Siamian	260
The Narratives of Paper in The Archives of the New Independent Greek State (Mid 19th c.) Ourania Kanakari and Maria Giannikou	264
From Macro to Micro and from Micro to Nano: The Evolution of the Information Content Preservation of Biological Wet Specimen Collections Nikolaos Maniatis and Georgios Panagiaris	268

Digital images: A valuable scholar's tool or misleading material? Patricia Engel	272
Attitudes of University Librarians and Information Scientists Towards the Draft Code of Library Ethics to Present a Model for Final Library Ethical Codes Mahsoomeh Latifi, Fatemeh Zandianand and Hasan Siamian	277
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 Dr. Susan Myburgh	285
Extending Convergence and Divergence in Cultural Memory Institutions: The Old Slave Lodge in the New South Africa Archie L Dick	287
The Transfer of Knowledge from Large Organizations to Small: Experiences from a Research Project on Digitization in Wales Clare Wood-Fisher, Richard Gough, Sarah Higgins, Menna Morgan, Amy Staniforth and Lucy Tedd	289
The Usage of Reference Management Software (Rms) in an Academic Environment : A Survey at Tallinn University Enrico Francese	293
Varialog : How to Locate Words in a French Renaissance Virtual Library Marie-Hélène Lay	297
The Urge to Merge: A Theoretical Approach Susan Myburgh	301
SYMPOSIUM ON ADVANCES INFORMATION FOR STRATEGIC MANAGEMENT Professor Nikolaos Konstantopoulos	304
Empowerment in the Tax Office of Greece Antonios E. Giokas and Nikolaos P. Antonakas	306
Building Absorptive Capacity Through Internal Corporate Venturing Ioannis M. Sotiriou and Alexandros I. Alexandrakis	310

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 Panagiotis Reklitis and Anestis Fotiadis	343
Strategic Alignment of ERP, CRM and E-business: A Value Creation Catherine C. Marinagi and Christos K. Akrivos	347
The Impact of Occupational Stress on Performance in Health Care Panagiotis Trivellas Panagiotis Reklitis and Charalambos Platis	351

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 Anastasia Argyropoulou, Panagiota Dionyssopoulou, Georgios Miaoulis	365
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	376
Policy of a Regional Municipality	
Vassiliki Delitheou and Dimitra Thanasia	
Issues of Social Cohesion: A case study from the Greek Urban Scenery Evgenia Tousi	380
Merging Activity and Employee Performance: The Greek Banking System Panagiotis Liargovas and Spyridon Repousis	384
Sustainable Development and Corporate Social Responsibility in Higher Education: Some	387
Evidence from Greece	
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

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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].

Personnel's Absorptive Capacity as a Guiding Concept for Effective Performance in Informative Technology

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Abstract: This article aims to examine the personnel's absorptive capacity as a guiding concept for an effective performance management strategy in business that use Informative technology. For this purpose the article is based not only on the latest literature in performance management strategy, but also to interviews of executive members of manufacturing Greek companies. Findings indicate personnel's absorptive capacity as a critical effect for the implementation of performance management practices while organizations need to emphasize in personnel's capacity, in motivation and in the organizational structure in order to enable the knowledge transfer and communication.

Keywords: Absorptive capacity, High performance management Working practices, Informative technology, Organisational change

I. INTRODUCTION

Absorptive capacity is a firm's ability to identify, assimilate, transform, and apply valuable external knowledge. Put another way, absorptive capacity is a limit to the rate or quantity of scientific or technological information that a firm can absorb. Conceptually, it is similar to information processing theory, but at the firm level rather than the individual level. Absorptive capacity was introduced by Cohen and Levinthal in 1990.

In a business context, IT performance management is concerned with measuring the expenditure of capital and human resources on Information Technology projects. This allows the business to determine how these expenditures improve strategic and operational capabilities of the firm in designing and developing products and services for maximum customer satisfaction, corporate productivity, profitability, and competitiveness

The article aims to examine, the Absorptive capacity as a concept for the effective performance of Human Resource practices in organizations that use Information Technology. For this purpose this article is based on a theoretical research in the recent literature, and the results of a qualitative analysis as these revealed from the interview of some executive members of Greek companies with experience.

II. ABSORVINE CAPACITY & ORGANIZATIONAL LEARNING IN INFORMATIVE COMPANIES

Cohen and Levinthal (1990),) claimed absorptive capacity is critical to an organisations innovative capacity, which in turn is seen as a critical element for business (Welsch, Liao & Stoica, 2001). These are complex adaptive systems, and the management is characterised by uncertainty, an imperfect knowledge base and a need for learning by doing (Rogers, Roux, Biggs, 2000). It is specifically this uncertainty that demands a management approach that is adaptive. However, Rogers and others (2000) also note that there has been an unfortunate tendency to super impose adaptive management on bureaucratic organisational structures that lack readiness.

Zahra and George (2002) emphasized the dynamic nature of Absortive Capacity, namely as "a set of organizational routines and processes by which organisations acquire, assimilate, transform and exploit knowledge to produce a dynamic organisational capability." Todorova and Durisin (2007), reconceptualised Zahra and George's (2007),) model and modified the core of their definition to "recognise the value, acquire, transform or assimilate, and exploit knowledge". They had reinstated Cohen and Levinthal's (1990) "recognise the value" as a step before acquisition and suggested that transform and assimilate are not consecutive, but rather alternative processes.

The definitions of Zahra and George (2002), and Todorova and Durisin 2007), lend themselves more naturally to big organisations difficult to accept changes and adapt to new strategies. Based on these definitions Absortive capacity is the enterprise's ability to integrate, build, and reconfigure internal and external competences to address rapidly changing environments (Teece & Pisano, 1997),) or else the dynamic capability of the enterprise.

The term 'dynamic' which appears in the littérature for the capability of the enterprise, refers to the capacity to renew competences so as to achieve alignment with that changing environment. Identifying Absortive Capacity with dynamic capabilities specifically provides an even lower level (i.e., more practical) framework for understanding what an organisation needs to be able to do, namely, recognise the value, acquire, transform or assimilate, and exploit knowledge. Teece and others (1997), also suggest that innovative responses are required when time-to-market and timing are critical, the rate of technological change is rapid, and the nature of future competition and markets difficult to determine. Informative Technology plays also a vital role as technological change is also rapid in this arena, particularly in the sense of new supporting data becoming available and in the increasing availability of new ways of processing such data. These factors contribute to a sense of urgency and therefore justify the importance given to the need for organisational innovation in this paper, and the associated need to explore new concepts in this arena, like Absortive Capacity.

Furthermore Teece and others (1997), suggest that the term 'capabilities' emphasises the key role of strategic management in appropriately adapting, integrating, and reconfiguring internal and external organisational skills, resources, and functional competences to match the requirements of a changing environment.

So 'dynamic capabilities' is a core generic descriptor of the outcomes of those knowledge processes at the heart of AC, namely recognising the value, acquiring, transforming or assimilating, and exploiting knowledge. The management of Absorptive Capacity will necessarily be very closely aligned to the kind of management suggested by Armitage (Armitage, 2005), in the context of adaptive capacity, namely reflecting organisational learning, experimentation and innovation. Indeed, this is adaptive management with the learning ideally characterised by effective feedback loops and genuine organisational change when necessary.

In order to realize this lack of readiness for the use of adaptive practices in organizations it is better to understand first the what the term "adaptive" means. Adaptive capacity has been defined as management that reflects learning and the ability to experiment and foster innovative solutions in complex social and ecological circumstances (Armitage, 2005)

This is strongly aligned with the learning by doing proposed by Rogers and others (2000) and also links directly to the theme of organisational learning. The definition of a learning organisation is the one that is 'skilled at creating, acquiring and transferring knowledge, and at modifying its behaviour to reflect new knowledge and insights' (Garvin, 1993).

Practiced effectively, adaptive management creates an enabling environment and can result in an outcome

described as adaptive capacity. Murray et all, (2011) named 4 Key Absorptive Capacity concepts :

• The In-House Prior Related Knowledge. According to Grunfeld (2003))an organisation needs specific competencies that enable personnel to understand and adapt the performance practices. In most companies the in-house capacity can be built in various ways where informative technology plays one of the vital role. Schmidt (2005), also concluded that in-house capacity residing in highly skilled individuals and Knowledge management tools that stimulate the involvement of employees in innovation projects seemed important for exploiting external knowledge

- Importance of Informal Knowledge Transfer : According to Schmidt (2005), facilitating informal knowledge transfer is more important than a culture in which information provision is more centralised. Informal Knowledge transfer depend on the organisational structure and on the availability of mechanisms that enable such communication. These in turn will depend on how active the management focus on these issues, within organisations but also across wider learning networks.
- The need of Motivation & Intensity of Effort: Ability and motivation are components of Absorptive capacity that needs to be present in order to facilitate the knowledge transfer of a Human Resource practice (Minbaeva, Pedersen, Bjorkman, Fey, Park, 2003). So, while ability is important it is not sufficient as motivation also required. The intensity of effort is directly connected with the motivation. Often companies use the previous bad experience from failures in order to motivate employees and hence intensify their efforts.. Creating and maintaining absorptive capacity there is a need for a motivated environment which also means focused management
- *The Importance of GateKeepers*: These are individuals who act interfacial between the internal system and external knowledge sources. They can monitor the environment and translate the external information into a form understandable by the organisation. Sometimes is a structured centralised capacity or can be diffused across many individuals. This highlights that should be people with special talents (Graf, 2007). The gatekeeping role could also be extended to a more comprehensive « bridging » role (Hahn, Olsson, Folke, Johansson, 2006), where the organisation can provide a place for trust-building, collaboration, learning, identification of common interests and conflict resolution.

III. THE GREEK EXPERIENCE

As a part of a survey for the performance management strategies after Merger & Acquisitions in Greek enterprises that use the high technology, the results of the interviews raised a number of parameters that influences the whole performance of the new organization.

Responses were submitted from a CEO and a manufacturing manager with service in manufacturing high tech companies before and after acquisitions. The key findings were:

➢ No matter the strategy and the techniques that the new company is using the main difference is the role of leadership and how active and focused on the employees is. All leaders from first to upper level should be trained for the successive organization of performance evaluation meetings. They have to support the effective performance and pass to all employees the appropriate messages for this purpose.

- Firms that use high technology in their systems (eg ERP systems, TQM, web based tools etc) applied the Performance management practices easier than manufacturing companies that still don't use Informative technology.
- Technology and web based tools can help people to understand and better to communicate more clear among teams.
- Clear roles and responsibilities after any change but also during normal operations is vital. In this way the passing from the data to the decision is fast and effective.
- The development of employees should also be the first priority to the leadership and the company targets should also be related with this.
- The daily activities should be performed in such way that should be an alignment between company targets and employees activities.
- Organization structure should be rely on trust and open communication among teams.
- The consideration of knowledge transfer at the individual and at the team or collective level. According the respondents when employees are assigned successively to different project teams, they can transfer their knowledge in high technology to other parts of the organization. This plays more important role in high technology companies.
- Human Resource Practices not always absorbed from the staff, particularly after a change where they feel suspicious and unsecure.
- Performance Management practices should be implemented in a way that people understand the needs and their contribution via the implementation.
- The existence of robust and reliable Key Performance Indicators in order to trace and solve the bad performance issues that raised inevitably.
- Interpersonal Trust: Learning processes are facilitated by good interpersonal relations, that can improve feedback and communication which will facilitate individual learning, development and

growth. If there is no trust, employees will not be cooperative and willingness to share their knowledge to their colleagues

- The diversity among the teams. This is vital in this type of business. Employees can be different in many aspects, like different skills, knowledge, personality characteristics. This diversity will be beneficial to the born of new ideas and consequently new knowledge.
- Organizational Culture: In this type of business this refers mainly to the dimensions of uncertainty avoidance and individualism. For example, coaching is important to overcome the obstacles of individualism for employees that are the competitive advantage of the company.
- Motivation & Reward: The performance process should be related with motivation and reward techniques. This also would be more efficient if there is only one central Human Resource department with uniformly management.
- Use examples from failure organizational changes to motivate and make personnel more proactive and ready to react in difficult cases

The detailed analysis of the above factors and the interpretation of the responses will be revealed in the full paper

III. CONCLUSIONS

In conclusion, the Absorptive capacity plays has a critical effect in the implementation of Performance management practices. Local enterprises need to be ready for changes and prepare their systems and people accordingly. Firms should built in their knowledge and in talented people in order to create an environment of trust and motivation for all employees. Informative technology systems should be used as a tool or vehicle to pass all these in a constructive way.

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