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International Conference on Integrated Information

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## CONTENTS


Georgios A. Giannakopoulos, Damianos P. Sakas

Conference Details

3

Keynote Speaker

5

**SYMPOSIUM ON INFORMATION AND KNOWLEDGE MANAGEMENT**

Prof. Christos Skourlas

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

A Web Portal Model for NGOs’ Knowledge Management
Zuhal Tanrikulu

The Digital Archives System and Application Optimized for the Tradition Knowledge Archives

A Semi-automatic Emerging Technology Trend Classifier Using SCOPUS and PATSTAT
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

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

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
Nasiopoulos K. Dimitrios, Damianos P. Sakas, Konstantinos Masselos

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

Culture in Modern Times in the Frame of Luhmann’s System Theory
Anastasia J. Chournazidis

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

A Conceptual Framework for Analyzing Knowledge-based Entrepreneurship
Nikos S. Kanellos
SESSION ON INFORMATION HISTORY: PERSPECTIVES, METHODS AND CURRENT TOPICS
   Prof. Laszlo Karvalics

Emerging Research Fields in Information History
   Laszlo Z. Karvalics

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

Information and Secrecy on the Silk Road. Methods of Encryption of Legal Documents in Inner Asia (3th-4th century)
   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
   Márton Gergő Vér

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

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

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

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

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

Special Libraries as Knowledge Management Centers
   Eva Semertzaki

Digital Libraries' Developers and their Suitability: A Case Study
   Maria Monopoli
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Preliminary Study for the Creation of a Greek Citation index in the</td>
<td>140</td>
</tr>
<tr>
<td>Humanities and the Social Sciences (GCI – H&amp;SS)</td>
<td></td>
</tr>
<tr>
<td>Daphne Kyriaki-Manessi and Evi Sachini</td>
<td></td>
</tr>
<tr>
<td>Archiving as an Information Science. Evidence from a Survey Carried</td>
<td>144</td>
</tr>
<tr>
<td>out on a Sample of Greek Students</td>
<td></td>
</tr>
<tr>
<td>Georgios Giannakopoulos and Ioannis Koumantakis</td>
<td></td>
</tr>
<tr>
<td>Transition Process of E-records Management and Archiving System in</td>
<td>147</td>
</tr>
<tr>
<td>Universities: Ankara University</td>
<td></td>
</tr>
<tr>
<td>S. Özlem Bayram and Fahrettin Ozdemirci</td>
<td></td>
</tr>
<tr>
<td>Government Information: Access and Greece’s Efforts for Access</td>
<td>150</td>
</tr>
<tr>
<td>Aikaterini Yiannoukakou</td>
<td></td>
</tr>
<tr>
<td>School Archives and their Potentials in Teaching: Aspects of Greek</td>
<td>156</td>
</tr>
<tr>
<td>Reality</td>
<td></td>
</tr>
<tr>
<td>Sonia Geladaki and Panagiota Papadimitriou</td>
<td></td>
</tr>
<tr>
<td>Research on School Libraries in Greece and Suggestions on its Further</td>
<td>160</td>
</tr>
<tr>
<td>Development</td>
<td></td>
</tr>
<tr>
<td>Georgios D. Bikos</td>
<td></td>
</tr>
<tr>
<td>Building Digital Collections for Archeological Sites: Metadata</td>
<td>164</td>
</tr>
<tr>
<td>Requirements and CIDOC CRM Extension</td>
<td></td>
</tr>
<tr>
<td>Georgios S. Gkrous and Mara Nikolaidou</td>
<td></td>
</tr>
<tr>
<td>Museological Claims to Autonomous Knowledge: Rethinking the</td>
<td>169</td>
</tr>
<tr>
<td>Conceptual Mode of Display and its Claims to Knowledge</td>
<td></td>
</tr>
<tr>
<td>Assimina Kaniari and Georgios Giannakopoulos</td>
<td></td>
</tr>
<tr>
<td>Use of Library Loan Records for Book Recommendation</td>
<td>172</td>
</tr>
<tr>
<td>Keita Tsuji, Erika Kuroo, Sho Sato, Ui Ikeuchi, Atsushi Ikeuchi,</td>
<td></td>
</tr>
<tr>
<td>Fuyuki Yoshikane and Hiroshi Itsumura</td>
<td></td>
</tr>
<tr>
<td>Developing a National Database on Librarianship and Information</td>
<td>176</td>
</tr>
<tr>
<td>Science. The Case of E-VIVA, the Hellenic Fulltext Database</td>
<td></td>
</tr>
<tr>
<td>Filippos Ch. Tsimpoglou, Vasiliki V. Kounkoudou and Eleni K. Sakka</td>
<td></td>
</tr>
<tr>
<td>Integrated Access to Cultural Heritage Information Pieces in Iran</td>
<td>181</td>
</tr>
<tr>
<td>Astan-Quds Razavi’s Organization of Libraries, Museums and Documents</td>
<td></td>
</tr>
<tr>
<td>Center: A Theory of Unionization Disparate Information Assets over</td>
<td></td>
</tr>
<tr>
<td>Imam Reza's Zarih</td>
<td></td>
</tr>
<tr>
<td>Ms. Mitra Zarei and Ms. Maliheh Farroknia</td>
<td></td>
</tr>
<tr>
<td>Attitudes of University Librarians and Information Scientists</td>
<td>185</td>
</tr>
<tr>
<td>towards the Draft Code of</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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  
Dr. Alexandros Koulouris

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

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

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

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

Implementation of Workflows as Finite State Machines in a National Doctoral Dissertations Archive  
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  
Michail Agathos and Sarantos Kapidakis

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

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

Applicability of Data Mining Algorithms on Clinical Datasets  
Wilfred, Bonney

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

From Medical Records to Health Knowledge Management Systems: The Coding to Health Sector  
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

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

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

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

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

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

SESSION ON INFORMATION CONTENT PRESERVATION AS OUTCOME OF CONSERVATION OF CULTURAL HERITAGE: ETHICS, METHODOLOGY AND TOOLS
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

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

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

The Narratives of Paper in The Archives of the New Independent Greek State (Mid 19th c.)
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
Nikolaos Maniatis and Georgios Panagiaris
Digital images: A valuable scholar's tool or misleading material?  
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  
Mahsoomeh Latifi, Fatemeh Zandianand and Hasan Siamian

Ekaterini Malea, Effie Papageorgiou and Georgios Panagiaris

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

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

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

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

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

The Urge to Merge: A Theoretical Approach  
Susan Myburgh

SYMPOSIUM ON ADVANCES INFORMATION FOR STRATEGIC MANAGEMENT  
Professor Nikolaos Konstantopoulos

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

Building Absorptive Capacity Through Internal Corporate Venturing  
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)

Catherina G. Siampou, Eleni G. Fassou and Athanassios P. Panagiotopoulos

Corruption in Tax Administration: The Entrepreneurs View Point

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.

Anthi Z. Vaxevanou, Nikolaos Konstantopoulos, Damianos P. Sakas

Contemporary Forms of Ordering Between the Supply Department and Ship Chandler Companies in the Shipping Industry

Anthi Z. Vaxevanou, Nikolaos Konstantopoulos, Damianos P. Sakas

Strategies Implemented and Sources Used for the Acquisition of Information on Foreign Markets

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

Nikolaos Konstantopoulos and Yiannis Triantafyllopoulos

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

Nikolaos Konstantopoulos and Yiannis Triantafyllopoulos

SESSION ON CONTEMPORARY ISSUES IN MANAGEMENT: ORGANISATIONAL BEHAVIOUR, INFORMATION TECHNOLOGY, EDUCATION & HOSPITAL LEADERSHIP

Dr. Panagiotis Trivellas

Investigating the Importance of Sustainable Development for Hotel SMES

Panagiotis Reklitis and Anestis Fotiadis

Strategic Alignment of ERP, CRM and E-business: A Value Creation

Catherine C. Marinagi and Christos K. Akrivos

The Impact of Occupational Stress on Performance in Health Care

Panagiotis Trivellas, Panagiotis Reklitis and Charalambos Platis
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Impact of Emotional Intelligence on Job Outcomes and Turnover Intention in Health Care</td>
<td>356</td>
</tr>
<tr>
<td>Panagiotis Trivellas Vassilis Gerogiannis and Sofia Svarna</td>
<td></td>
</tr>
<tr>
<td>SYMPOSIUM ON BUSINESS MANAGEMENT AND COMMUNICATION STRATEGIES SUPPORTING DECISION MAKING PROCESS IN TOURISM SECTOR</td>
<td>360</td>
</tr>
<tr>
<td>Dr. Panagiota Dionysopoulou</td>
<td></td>
</tr>
<tr>
<td>The Human Factor as a Mediator to the Total Quality in the Tourism Companies. The impact of Employees’ Motivation to Quality Improvements</td>
<td>362</td>
</tr>
<tr>
<td>Christos K. Akrivos and Panagiotis Reklitis</td>
<td></td>
</tr>
<tr>
<td>Tourist Destination Marketing and Management Using Advanced ICTS Technologies</td>
<td>365</td>
</tr>
<tr>
<td>Anastasia Argyropoulou, Panagiota Dionyssopoulou, Georgios Miaoulis</td>
<td></td>
</tr>
<tr>
<td>George Stafylakis and Panagiota Dionyssopoulou</td>
<td></td>
</tr>
<tr>
<td>GENERAL PAPERS</td>
<td>375</td>
</tr>
<tr>
<td>The role of Environmental Education within the Framework of the Environmental Policy of a Regional Municipality</td>
<td>376</td>
</tr>
<tr>
<td>Vassiliki Delitheou and Dimitra Thanasia</td>
<td></td>
</tr>
<tr>
<td>Issues of Social Cohesion: A case study from the Greek Urban Scenery</td>
<td>380</td>
</tr>
<tr>
<td>Evgenia Tousi</td>
<td></td>
</tr>
<tr>
<td>Merging Activity and Employee Performance: The Greek Banking System</td>
<td>384</td>
</tr>
<tr>
<td>Panagiotis Liargovas and Spyridon Repousis</td>
<td></td>
</tr>
<tr>
<td>Sustainable Development and Corporate Social Responsibility in Higher Education: Some Evidence from Greece</td>
<td>387</td>
</tr>
<tr>
<td>Anastasios Sepetis and Fotios Rizos</td>
<td></td>
</tr>
<tr>
<td>Exploring the Effects of Organizational Culture on Collaborative vs. Competitive Knowledge Sharing Behaviors</td>
<td>395</td>
</tr>
<tr>
<td>Hanan Abdulla Mohammed Al Mehairi and Norhayati Zakaria</td>
<td></td>
</tr>
</tbody>
</table>

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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


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.
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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].
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

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Abstract: The topic of this article is a reinterpretation of the establishment of the Mongolian Empire from an information history point of view. At the beginning of the 13th century Genghis Khan united the nomadic Mongolian tribes and established the largest inland empire, never before seen in history. The borders of the new state reached from China in the East and the Carpathians in the West. Research over the past 200 years based the success of this vast empire on many reasons including the nomadic military organization as well as the favorable political situation of that time. In the following I will demonstrate the fact that the role of information and disinformation in this subject was utmost importance.

Keywords: Military intelligence, Diplomacy, Mongolian Empire, Military technology, Postal system,

I. INTRODUCTION

The notions of information and disinformation are very important in our daily life today. In the 21th century the flow of information is faster than it has been any time before. At the same time governments, companies, political parties make enormous efforts to preserve information from their opponents at all costs. In this competition of getting and saving information disinformation is also a major factor. This phenomenon wasn’t different throughout history. From the beginning of time people tried to get as much information as they could about their surroundings, while disclosing as little as possible about themselves. Military activities apply the same tactics. Historians have proved the existence of intelligence services during the time of the states of the Ancient Near East (Dvornik, 1974). A discipline of information history researches the role of the flow of information during wars throughout the history of mankind. This article aims to examine this flow of information and disinformation during the period of the Mongolian conquest in the 13th century. In addition I will examine the bureaucratic institutions of the Mongolian Empire. The role of information and disinformation appears in many different situations during the analysis of the Mongolian conquest. I have divided the presence of these phenomena into four categories: diplomatic relations, military intelligence, postal system, circulation of military technologies.

II. DIPLOMATIC RELATIONS

We can handle the presence of information and disinformation in diplomatic relations and military activities in history as a part of intelligence history. The German historian Hansgerd Göckenjan (2001) published an article dealing with nomadic intelligence, answering some important questions and contributing greatly to this topic. Nevertheless the nomadic intelligence has remained poorly researched. This study brought attention to the importance of strategic intelligence in nomad warfare. Here I have to state that from this point on I will use the strategic and tactical categories as used in B. H. Liddell Hart’s indispensable book Strategy (1991†). On one hand he claims that strategy is the segment in the art of war that minds war in general and the different operational theories and practices. On the other hand tactics is the segment in the art of war that deals with the leading of troops in different battle situations.

Before engaging in larger campaigns, the nomads always tried to gather as much information on the internal situations of opposing forces as it was possible. Accumulating this information was done by using different methods, which can be observed in the events I researched. Firstly I would like to detail the above mentioned diplomatic connections used in nomadic intelligence.

The account given by Friar Julian on his second journey to the east from the Hungarian Kingdom in 1237-38, quotes a letter sent by one of the Mongolian leaders to the Hungarian King, Béla IV. The messenger had been captured by the Suzdal prince before the letter reached the recipient. According to the letter, this envoy was the 30th sent to the Hungarian King, but the Khan had received no reply so far (Dörrie, 1956). We might consider that number of 30 legations is an exaggeration. But a letter from the French traveler Yvo de Narbonne proves the presence of Mongolian envoys in the Hungarian court. The letter states that the Dalmatian governor captured 8 Mongolians, one of which turned out to be of English origin. This person acted as an interpreter and envoy on behalf of the Mongolian Khan, who travelled twice to the court of King Béla IV (Gombos, 1937). On the basis of this information sole, we can state that the envoys of the Mongolian Empire were well prepared and spoke many different languages. The account of Friar Julian’s first journey (1235-36) supports this fact as well, which tells us about his meeting with a Mongolian envoy in the course of the Eastern Hungarians. According to the description, the envoy spoke Russian, Cuman, German, Persian and Mongolian (Gombos, 1938). The movement of these envoys in the Mongolian Empire was brought to
perfection in a way which had never been seen before in nomadic states. Using a method practiced by Persians and Arabs, postal stations (called jam) were built throughout the Empire. Below I will give further information on this subject. The Mongolians not only sent but also received many envoys. In the account of Polonius regarding his travel in the court of Güjük Khan, he writes of 3000 envoys from different countries being present at the election ceremony of the Khan (Dawson, 1955). Meanwhile we can notice that in the accounts of monks travelling to the East, only a few pieces of information could be gathered regarding the Mongolian military organization. The main reason for this was that after entering the Empire, the monks were guarded by Mongolians. This implies that although many envoys travelled throughout the Empire, they were successfully hindered from acquiring accurate information regarding Mongolian military. I believe this to be an early version of counter intelligence and disinformation.

III. MILITARY INTELLIGENCE

The military intelligence can be also divided into two parts: strategic and tactical intelligence. We can find perfect examples for both in the military history of the Mongols. Strategic military intelligence has two major parts as well: one is the above discussed diplomacy, the other are the preliminary campaigns. The goal of these campaigns was not to occupy a territory. During these expeditions the Mongols aimed to gather as many information about an unknown region as they could. In connection with the preliminary or investigative campaigns, we may say that the first Mongolian expedition to the West which started in the autumn of 1219 and ended in 1224 where the ending point was the Russian steppe, is regarded by scholars as a campaign to acquire knowledge of the area in preparation of a large scale attack. A large part of the territory was not occupied by military troops, although the whole area was investigated by them. We may regard this action as a success, since the scattered scout groups travelled the Western territories of the steppe, gathering first hand information on Middle and Eastern Europe.

The other important part of military intelligence is the tactical intelligence. The main goal of these military activities was to serve the campaign’s success with information. Fortunately in our sources many precedents of this activity can be found. During the actual large scale attack a method used in acquiring tactical information, was incorporating leaders with a wide knowledge of the terrain. In the case of the Mongol conquests in Europe, among the works of Jan Długosz, there is a source which suspects Rus captives in Poland, leading the Mongolian troops.

The troops functioning as scout groups were called manglai, which means forehead (Rachewiltz, 2004). Even Friar Giovanni DiPlano Carpini mentions that the scout groups march ahead of the army. He says: “When they are going to make war, they send ahead an advance guard and these carry nothing with them but their tents, horses and arms. They seize no plunder, burn no houses and slaughter no animals; they only wound and kill men or, if they can do nothing else, put them to flight. They much prefer, however, to kill than to put to flight. The army follows after them, taking everything they come across, and they take prisoner or kill any inhabitants who are to be found. Not content with this, the chiefs of the army next send plunderers in all directions to find men and animals, and they are most ingenious at searching them out.” (Dawson, 1955)

We can find more precise information in the reports on Mongolians, which can be connected to the Southern Chinese Song dynasty. This source writes that the primary assignment of the scout troops was to settle on the hills and higher terrain that fell in the path of their armies, as well as to capture enemy prisoners. The source also lists the questions with which the troops interrogated their prisoners (Meng-Ta–Hei-Ta, 1980).

In the book entitled The Secret History of the Mongols – which is the oldest surviving Mongolian literary work -, we can find several references that the scout groups set up camps at certain distances and sent even more troops forward from these points: “Činggis Qa’an sent Altan, Qučar, and Dāritai, as a vanguard; the Ong Qan sent Senggüm, Jaqa Gambu, and Bilge Beki. Patrols were also dispatched ahead of these vanguards: at Enegen Gülėli they set up an observation post; beyond that, at Mount Cekčer they set up another observation post; and beyond that, at Mount Čıqurq, they set up a further observation post. Altan, Qučar, Senggüm and the others of our vanguard arrived at Utkiya. While they were deciding whether to camp there, a man from the observation post wich had been set up at Čıqurq came riding in haste and brought the news that the enemy was approaching.” (Rachewiltz, 2004)

Based on this data we can say that the Mongol troops were able to do long-range, efficient exploration on the enemy’s territory. The description of these camps can also be found in the reports already mentioned. On the basis of this we know that the horses were both tended to and fed inside of these camps while in normal camps they were kept outside. With this method the Mongol scouts could prove their quick response ability. Another interesting piece of information is that the cooking was done before sunset, and the fires were left burning at night while they moved to a different location to mislead and misinform the enemy.

Overall it can be said that the well organized military intelligence (strategic as well as tactical) was a very important part of the Mongol warfare.

IV. POSTAL SYSTEM

The Mongol postal relay system is very well known from Marco Polo’s report. The Mongol postal system was established during the reign of Ögödei (1229–1241), the third son of Genghis Khan. This network of post
stations (jam) was known much earlier in Inner Asia and was used before the Mongols had even established their empire. The vast size of this network was far more extraordinary than any postal system used before (Allsen, 2009). In the 13th century the extent of this network covered almost the whole empire starting from Central Mongolia to China in the East and reached the lower Volga in the West. The aim of this huge and sophisticated system was to help the flow of information and goods throughout the empire. There were three types of postal stations: morin or ‘horse’ stations for moving people, messengers, and officials; narin or ‘careful [-handling]’ stations to enable the direct communication with the great khan; and tergen or ‘wagon’ stations used for the transportation of goods. The jam was maintained by the Mongol military establishment, although the provision of horses and supplies was the responsibility of the local population. The supplies were given by the locals as a tax to maintain these stations. At every relay station horses and other necessary supplies could be found. Messengers could change their horses at these stations, and by so doing did not have to stop to rest. Important messages could be carried at an accelerated rate. Marco Polo who travelled around China during the Mongol rule says: „Thus it is so expeditiously conveyed from station to station, that in the course of two days and two nights his Majesty receives distant intelligence that in the ordinary mode could not be obtained in less than ten days.” (Polo, 1958)

Even though it may sound like an exaggeration, we can say at that time this was the fastest way of transmitting information. To be able to use the services of these postal relay stations the travelers had to have a paiza, which was a Mongol office emblem that served as a passport throughout the empire.

In general we can say the Mongols built up a postal relay system that had been known before, but they developed immensely. This network was the largest, most sophisticated and fastest at that time. It can’t be overemphasized that this system and the speed of the information relayed by it, was a huge advantage for the empire against their enemies. As I stated before, the foreign envoys and their Mongol escorts used this system as well. In this way this system also prevented the intelligence activities of other states against the Mongolian Empire. The accurate and fast information flow was one of the Mongol’s biggest advantages against their enemies.

V. MILITARY TECHNOLOGY
At the beginning of the 13th century the Mongolian army was equipped with almost the same types of weapons as their nomadic predecessors since the first centuries A.D. As they conquered lands beyond the steppe zone they met with new military technologies. The main difference between them and their predecessors was that they started to use these developments and incorporate them into their warfare. The research of this subject today is well processed, especially in the works of Thomas T. Allsen. In the following I want to summarize his results.

The Mongols interacted with many sedentary people from the Chinese to the people of the Muslim states of Middle- and Western-Asia till the Eastern-European countries. The armies of these states had their own style and equipments of warfare. One of the secrets of the Mongol successes was that they could incorporate these equipments and apply them to their own style of warfare. The biggest innovation of the Mongols was that they did not just incorporate the military techniques, but they captured the enemy technicians. The Mongols regularly moved craftsmen from the occupied lands to the center of their empire (Allsen, 2009). After so doing, these professionals commenced working for the good of the Mongolian Empire. During the campaigns against North China the Mongols sent commissioners (shizhe) into the cities to bring out scholars, artisans and technicians before raiding them. We know from the Chinese sources that the population registers of the Mongols contained separate categories for military, merchant, agricultural and artisan households. With this practice within only a few decades the Mongol rulers created a huge data base that contained a great deal of information about the useful talents in the empire (Allsen, 2009). Allsen state that there existed different types of data bases like maps of strategical points and postal relay systems (Allsen, 2001).

Over all we can say that the Mongols had a systematic practice to incorporate military technology and technicians. With this method they could improve the effectiveness of their army. Moreover we have to say that this practice was not only for military technologies and professionals. Recent researches on this subject clearly proved the fact, Mongols incorporated technologies and experts from many disciplines: for example their taxation system, the state bureaucratic practices, religions, etc.

VI. CONCLUSION
In this article I introduced a new aspect of analysis of the establishment of the Mongolian Empire. The exploration of this subject with the aspect of information history presented the fact that the fast flow of information and the well used disinformation were very important factors in the successful conquerors of the Mongols. The well trained diplomats could gather much information from other countries while foreign envoys were prevented from it. The military intelligence was also well organized, and worked effectively in both tactical and strategic dimensions. The subjects of the postal relay system and the military technologies show us a special talent of the Mongols. They not only incorporated and used new technologies and systems, but they also developed and applied them to their attributes. As we can see the threads of information met at the center of the empire. The well organized
information relay system and the data bases helped the great Khans to make the most effective decisions.

In this paper I emphasized those aspects of information and disinformation that were controlled by the state. Another very interesting subject could be those aspects what were not under the control of the state. For example the religious and all the cultural interactions in Eurasia, initiated by the Mongols in the 13th century and after.

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