Preface

With the explosion of the volume of available information on the Web, the Information Retrieval Systems (IRSs) have become necessary to help the users to find relevant documents. Traditional IRSs may be drastically different if they may take into account the context of the information and the context of the end users' query. Contextual information includes both explicit and implicit knowledge about intentions of the user, environment the user is attached to and the system itself. Such factors constrain the search without intervening in it explicitly. One idea to improve the efficiency of IRSs is to make the contextual information explicit in order to enhance the retrieval performance.

This workshop was held in conjunction with the CONTEXT-05 conference (http://www.context-05.org) in Paris, France, July 5. The workshop was intended to explore related work, theoretical frameworks and applications which focus on contextual IRSs. It was intended for researchers in the areas of computer science, information retrieval, and digital libraries. The workshop's aim was to promote exchanges in these fields, to establish the current state of the art, to identify the emerging problems and to propose future research directions. The topics covered were contextual information retrieval modelling, contextual information retrieval metrics and assessments, theory in context and information retrieval, multiple contexts in information retrieval, adaptive and interactive information retrieval, multi-context based browsing, use of ontologies to contextualize the indexing, experiments with test collection of contextual information retrieval systems, tools to support contextual information retrieval.

We received 21 submissions and among them 10 papers from 6 countries were accepted for presentation. The presentations concerned several meanings of context including

- user context: profile, preferences, semantics of query terms,
- document context: metadata, annotation, language localization, usage or creation circumstances,
- physical context: geographical position, time, temperature,
- dynamic context: dynamic applications, reasoning

The context is used in various directions such as modelling (vector space, profile), filtering (MoBe application, Document Souls), browsing (neighbourhood, conceptual chain graph), and learning (profile). The context is mainly characterized by its dynamicity, it conveys a semantics/intention of the user not made explicit in the query, as well as a semantics/information of the environment not made explicit in the query. The discussion that followed the presentations raised the problems of defining the meanings and the boundaries of context, the evaluation of context-based information retrieval systems, the complexity in terms of resources and time which is increased with the context, the user-centred view and what context brings to information retrieval as well as what information retrieval brings to context.

The conclusion of the workshop is that the Web and the mobile environment contribute greatly to increase the research on contextual information retrieval, that classical models have to be reconsidered to take account of the context in each step of the retrieval process and finally that experimentation is a big challenge to evaluate the results from contextual information retrieval systems. Future directions concern theoretical aspects, the quantitative evaluations and metrics of the experiments, the generalization of local applications to large test collections, and the selection of the dimensions that represent the context. Classical test collections seem to be not useful for contextual information retrieval and a great effort has to be done in the building of new collections for interactive information retrieval systems (HARD Track in TREC, ...).

Thank you to the program committee who contribute for the high quality of the selected papers. Thanks particularly to Patrick Brézillon for his helpful support for the organization of the workshop. Thanks a lot to the organizing and local committee for their continuous support in preparing the workshop. Thank you to all the participants of the workshop who made the event successful and so interesting.

August 2005 Bich-Liên Doan

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Schedule

9h	Introduction
	Bich-Liên Doan
9h10	Contextual Information Retrieval using Concept Chain Graphs
	Rohini K. Srihari, Sudarshan Lamkhede, Ammol Bhasin, Wei Dai
9h40	Document Souls: Joining Personalities to Documents to produce pro-active documents
	engaged in contextualized, independent search
	Gregory Grefenstette, James G. Shanahan
10h10	Information Filtering and Retrieving of Context-Aware Applications within the MoBe
	Framework
	Paolo Coppola, Vincenzo Della Mea, Luca Di Gaspero, Stefano Mizzaro, Ivan
	Scagnetto, Andrea Selva, Luca Vassena, Paolo Zandegiacomo Rizio
101.40	
10h40	coffee break
11h10	Dealing with Fragmented Recollection of Context in Information Management
111110	David Elsweiler, Ian Ruthven, Christopher Jones
11h40	A Content Independent Model for Context Adaptation and Individualization in
111110	Information Retrieval
	Thomas Mandl, Christa Womser-Hacker
12h10	Lunch
13h45	Can Vector Space Bases Model Context?
1011.0	Massimo Melucci
14h15	Profiles re-usability for Personalized Access: application to users contexts
	determination
	Max Chevalier, Chantal Soule-Dupuy, Pascaline Laure Tchienehom
14h45	Dynamic Documents Indexing in Evolving Contexts
	Rolf Nossum, Vladimir Oleshchuk
15h15	Coffee break
151 45	
15n45	Language Variation as a Context for Information
1615	Ahmed Abdelali, Jim Cowie, Handy S. Soliman
101113	Multi-context based browsing in Heterogeneous Semantic Spaces: The Ontology
	Switching Approach Thomas Mandl Christa Womsen Hacker
16h/15	Thomas Mandl, Christa Womser-Hacker Discussion
	Workshop closing
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