ADBIS'2002

**Sixth East-European Conference on Advances in Databases
and Information Systems
September 8-11, 2002, Bratislava, Slovakia**

`http://www.dcs.elf.stuba.sk/adbis2002`

In co-operation with ACM SIGMOD, the Moscow ACM SIGMOD Chapter, Slovak Society for Computer Science, and Faculty of Electrical Engineering and Information Technology STU Bratislava.

AIMS AND SCOPE

Everyone interested in database and information systems is invited to participate in ADBIS 2002, the Sixth East-European Conference on Advances in Databases and Information Systems. This year conference will follow the tradition of providing high quality tutorials and invited talks led by internationally recognized experts. A diverse selection of technical sessions will provide a forum for the exchange of the latest ideas and results on the field of database theory, development of advanced DBMS technologies, and their advanced applications.

PRELIMINARY PROGRAM

SATURDAY	7.9.2002			**Registration**	**Welcome Drink**
SUNDAY	8.9.2002	**Tutorials**		**Tutorials**	**Concert**
MONDAY	9.9.2002	**Invited Lecture**	**Technical Sessions**	**Technical Sessions**	**Welcome Dinner**
TUESDAY	10.9.2002	**Invited Lecture**	**Technical Sessions**	**Conference Trip**	
WEDNESDAY	11.9.2002	**Invited Lecture**	**Technical Sessions**	**Technical Sessions**	

TUTORIALS

Awais Rashid (Computing Dept., Lancaster Univ., UK):

ASPECT-ORIENTED PROGRAMMING: WHAT DOES IT MEAN FOR DATABASE SYSTEMS?

Aspect-oriented programming (AOP) aims at easing software development by providing abstractions which serve to localise crosscutting concerns e.g. code which cannot be encapsulated within one class but is tangled over many classes. This tutorial will discuss the role of AOP in the context of database systems. The aims of the tutorial are fourfold: to introduce the audience to basic concepts of aspect-oriented programming; to highlight crosscutting concerns in database systems at both the DBMS level and database level; to describe the use of aspect-orientation to achieve cost-effective customisation and reduced maintenance overheads at both the DBMS level and the database level; to discuss new requirements imposed on database systems in terms of aspect storage and integration with aspect-oriented programs and some solutions to address these requirements.

Timos Sellis (Knowledge and Database Systems Laboratory, National Technical Univ. of Athens, GREECE):

DESIGN AND MAINTENANCE OF DATA WAREHOUSES

This tutorial will discuss topics involved in the design and maintenance of data warehouses (DW). It starts with the definition of data warehouses and On-Line Analytical Processing (OLAP) by emphasizing the differences with data bases and On-Line Transaction Processing (OLTP). It then introduces architectures of DW systems by discussing the various components of such architectures (data sources, wrappers and mediators, data marts, etc) and the models used (MOLAP, ROLAP, HOLAP, etc). It then looks in detail into the issues involved in the design of data warehouses, the maintenance principles and the algorithms used to efficiently perform the design and maintenance of data warehouses. Finally, it looks into special research issues such as storage and query processing alternatives as well as indexing and other operational issues.

INVITED TALKS

Oliver Gunther (Humboldt-Univ. zu Berlin and PULV, Paris)

TRUST IS NOT ENOUGH: HOW TO HIDE SENSITIVE DATA FROM YOUR SERVICE PROVIDER

This talk will present several technical solutions how customers can use a provider's services without giving him access to any sensitive data. Our focus will be on privacy homomorphisms, an encryption technique originally proposed by Rivest et al. that maintains the structure of the input data while obscuring the actual content. We shall present several of our own proposals how to integrate privacy homomorphisms into existing service architectures and a comparative analysis that compares costs and benefits of the solutions currently available.

Paolo Atzeni (Universita Roma Tre, Italy)

COORDINATES FOR WEB SITE MODELING: TIME, VERSION, EDITION, SPACE, PERSONALIZATION

Adoption of high level models has been advocated by many authors as instrumental in Web site development as a strong support to both development and maintenance. We will discuss how the specification of Web sites at the logical level can greatly benefit from the introduction of specific features for the representation of time, which could interact with the support for versions and editions objects in the site. However, time can be seen as a "coordinate" of Web models, a more general notion that includes various forms of specializations, personalizations, and variations, such as those related to location, language, user preferences, device type.

Hans-Jörg Schek, Heiko Schuldt, Christoph Schuler, Roger Weber (Swiss Federal Inst. of Techn., Zurich, Switzerland)

INFRASTRUCTURE FOR INFORMATION SPACES

In the past we talked about single information systems. In the future we expect an increasing number of information systems and data sources, reaching from traditional databases and large document collections, information sources contained in web pages, down to information systems in mobile devices and embedded information in mobile "smart" objects as they will occur in a pervasive computing environment. Therefore not only the immense amount of information demands new thoughts but also the number of different information sources and their coordination poses a great challenge for the development of future tools that will be suitable to access, process, and maintain information. We talk about the continuous, "infinite" information, shortly called the " information space". Information in this space is distributed, heterogeneous and undergoes continuous changes. The infrastructure for information spaces must provide convenient tools for accessing information via sophisticated search facilities and for combining or integrating search results from different sources.

TECHNICAL SESSIONS

31 selected papers will appear in Conference Proceedings by Springer in the LNCS Series. 24 selected papers will be published in local Communications.

REGISTRATION AND FEES

Registration can be made on-line at `www.dcs.elf.stuba.sk/adbis2002` by filling in the registration form. Alternatively, you can register by sending an e-mail to adbis@dcs.elf.stuba.sk.

	EARLY (by June 30)	**LATE** (by August 15)	**ON SITE**
ACM Non-member	17 500 SKK or 410 €	18 700 SKK or 440 €	19 900 SKK or 470 €
ACM Member	15 400 SKK or 360 €	16 600 SKK or 390 €	17 800 SKK or 420 €
PC/SC Member	13 300 SKK or 320 €		
Student	8 300 SKK or 200 €	9 300 SKK or 220 €	10 300 SKK or 240 €
Additional Copy of Proceedings	2 500 SKK or 60 €		
Accompanying Person	5 000 SKK or 120 €		
Trip to Cerveny Kamen	2 500 SKK or 60 €		

PAYMENTS

All payments have to be made by bank transfer to:
  Tatra Banka, a.s., Vajanského nábr. 5, P.O. BOX 50, 810 11 Bratislava 111, Bratislava, Slovakia
  Account Name: Nadacia pre rozvoj informatiky; *Account number: 2663040002/1100*
  Swift code: TATRSKBX
  Purpose of payment: adbis2002 {your name}
Please specify your name on the bank transfer so that your payment be can more easily identified. Additionally, a copy of your bank transfer should be faxed to +421 2 654 20 587. Payments should be made no later than June, 15th for participants with accepted papers and no later than August, 15th for others. All money transfers must be free of charge for the recipient.

CONFERENCE VENUE

The Conference will be held in Bratislava, Slovakia, at the congress centre Družba located about 3 km west from the historical centre of Bratislava. Bratislava, the capital and the largest city in Slovakia, is an old central European city that has always gained attention through its location on the river Danube, its nearness to Vienna and Budapest, and the hospitality of its inhabitants. Throughout the history, Bratislava has grown not only to the administrative, industrial, cultural and scientific centre of Slovakia but first of all to the lovely city worth of staying in. Today's visitors, sitting in restful cafés or walking through the streets and squares in immediate vicinity to the St. Martin gothic cathedral, the Town Hall, Primate's Palace, or other historical buildings, can fully enjoy and admire the ancient architecture of Bratislava's old city. The picturesque region around Bratislava, known for large vineyards and winemaking districts and for original ceramic manufacturing, impresses a visitor with hundreds of years of handicrafts, culture and traditions in this neighbourhood.

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