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Rick Cattell: Independent Consultant, USA
William R. Cook: University of Texas at Austin, USA
Stefan Edligh: TFH Berlin, Germany
Anat Gafni: dLibraries, USA
Robert Greene: Versant Corporation, USA
Leon Guzenda: Objectivity Inc., USA
Molra C. Norrie: ETH Zurich, Switzerland
James Paterson: Glasgow Caledonian University, UK
Roberto V. Zicari: Goethe University Frankfurt, Germany

Conference Organization

ICOODB 2010 was organized by the database group (DBIS) at the Institute of Computer Science, Goethe University Frankfurt in cooperation with ODBMS.ORG (www.odbms.org).

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Roberto V. Zicari: Goethe University Frankfurt, Germany

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Alan Dearle: University of St Andrews, Scotland
Roberto V. Zicari: Goethe University Frankfurt, Germany

Industrial Track Chairs

Anat Gafni: dLibraries, USA
Roberto V. Zicari: Goethe University Frankfurt, Germany

Tutorial Track Chairs

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Jim Paterson: Glasgow Caledonian University, UK

Workshops Chairs

Stefan Edligh: TFH Berlin, Germany
Jim Paterson: Glasgow Caledonian University, UK

Demonstrations and Posters Chairs

Stefan Edligh: TFH Berlin, Germany
Roberto V. Zicari: Goethe University Frankfurt, Germany

Local Organization

Natascha Hoebel: Goethe University Frankfurt, Germany
Naveed Mushtaq: Goethe University Frankfurt, Germany
Clemens Schiffl: Goethe University Frankfurt, Germany
Marion Terrell: Goethe University Frankfurt, Germany
Karsten Tolle: Goethe University Frankfurt, Germany

Program Committee

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William R. Cook: University of Texas at Austin, USA
Suzanne W. Dietrich: Arizona State University, USA
Manfred Jeusfeld: Tilburg University, The Netherlands
David Jordan: SAS Institute, Inc., Germany
Michael Grossniklaus: Politecnico di Milano, Italy
Giovanna Guerini: University of Genoa, Italy
Till Hörer: TU Kaiserslautern, Germany
Natascha Hoebel: Goethe University Frankfurt, Germany
Daniel Lieuwen: Google Inc., USA
Moira C. Norrie: ETH Zurich, Switzerland
Tore J.M. Risch: University of Uppsala, Sweden
Elke A. Rundensteiner: Worcester Polytechnic Institute, USA
Clemens Schiffl: Goethe University Frankfurt, Germany
Nicholas Spiratos: University of Paris South, France
Kazimierz Subieta: Polish-Japanese Institute of Tech., Poland
Karsten Tolle: Goethe University Frankfurt, Germany
Susan D. Urban: Arizona State University, USA
3rd International Conference on Objects and Databases (ICOODB)

September 28-30, 2010

Goethe University Campus Westend
GPS: 50.127576, 8.666773

About ICOODB 2010

ICOODB 2010 is the third in a series of international conferences aimed at promoting the exchange of information and ideas between members of the objects and databases communities. A key feature of the conference is its goal to bring together developers, users and researchers. At the same time, the conference aims to meet the needs of the different sub-communities. The conference therefore consists of three different tracks offered as a tutorial & workshop day and two conference days with research and industry tracks.

Registration and Coffee Breaks
Room HZ 15 / Foyer 3rd Floor

The registration will be on the top/3rd floor. All participants for the tutorials, workshop as well as the main conference should register to collect tutorial/workshop and conference material, including vouchers for lunches. The registration desk will be open at the following times:

<table>
<thead>
<tr>
<th></th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>28 September</td>
<td>08:30 – 10:00</td>
<td>HZ 15</td>
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<tr>
<td>28 September</td>
<td>12:00 – 14:30</td>
<td>HZ 15</td>
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<tr>
<td>29 September</td>
<td>08:00 – 10:00</td>
<td>HZ 15</td>
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<tr>
<td>30 September</td>
<td>08:30 – 10:00</td>
<td>Foyer</td>
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During coffee breaks drinks will be served in room HZ 15 (28 & 29 Sept) or at in the foyer (30 Sept).
Tutorial 1: Object Databases (9:00 – 12:00)  Room: HZ 9

Instructor: Dr. Michael Grossniklaus, Politecnico di Milano

Abstract: As object databases gain popularity, software developers and architects feel the need to extend their knowledge about this technology.

This tutorial is intended to give an overview and introduction to object databases, providing the necessary background to professionals in order to make informed decisions in the future. The tutorial is structured in two parts. In the first part, it will introduce the main concepts and properties of object databases. In this second part, these features will be revisited by means of practical examples that show how actual products address these requirements.

Coffee Break: 10:30 – 11:00

Tutorial 2: Patterns of Data Modeling (14:00 – 17:00)  Room: HZ 9

Instructor: Dr. Michael Blaha, Modelsoft Consulting Corporation

Abstract: The premise of software engineering is to think, and think deeply, about an application before writing code. Such careful attention leads to software with predictable performance, high quality, and the ability to evolve for future needs. Data modeling is an aspect of software engineering and is important when building database applications.

Many developers understand that they should model their databases, but have trouble getting started. Patterns help this situation by providing fragmentary models as starting points for core aspects of an application. There are always choices in representation and patterns help illuminate the options.

Coffee Break: 15:30 – 16:00
28 September 2010  Tutorial and Workshop Day

NoSQL Workshop (12:30 – 19:30)  Room: HZ 8

Workshop Chairs: Stefan Edlich, Jim Paterson

Program

- 12:30: Informal Get Together
- 13:00 - 13:30: Nuno Job, MarkLogic "Beyond NoSQL with MarkLogic: The Universal Index"
- 14:00: Marc Boeker, ONchestra, "Dinner in the sky with MongoDB"
- 14:50: Tim Lossen, wooga, "Scale Out vs. Scale In - a face-off between Cassandra and Redis"
- 15.40: Drink / Coffee Break (HZ 15)
- 16:00: Achim Friedland, Sones, "The Graph DB Landscape and SonesDB"
- 16:50: Peter Neubauer, Neo Technology, "Neo4j for deep spatial and social intelligence"
- 17:40: Break
- 18:00: Doug Judd, Hypertable Inc, "Mastering Massive Data Volumes with Hypertable"
- 18:50: Mikeal Rogers, Couchio, "Agile Web Data with CouchDB"
- 19:30: Official Part Ends
- 20:00: NoSQL / ICOODB After Workshop Beer.
29 September 2010

First Conference Day
Room HZ 6

08:30 – 09:00 Welcome
09:00 – 10:00 Keynote: "Search Computing Challenges and Directions"

Stefano Ceri, Professor of Database Systems at the Politenico di Milano

10:00 – 10:30 Session 1 (Research)

Chair: Anat Gafni

Revisiting Schema Evolution in Object Databases in Support of Agile Development
Tilmann Zäschke (ETH Zürich), Moira Norrie (ETH Zürich)

10:30 – 11:00 Coffee Break

11:00 – 13:00 Session 2 (Research)

Chair: Anat Gafni

The Case for Object Databases in Cloud Data Management
Michael Grossniklaus (Politecnico di Milano)

Query Optimization by Result Caching in the Stack-Based Approach
Piotr Cybula (University of Lodz, Poland), Kazimierz Subieta (Polish Academy of Sciences, Warsaw, Poland)

A Flexible Object Model and Algebra for Uniform Access to Object Databases
Michael Grossniklaus (Politecnico di Milano), Alexandre de Spindler (ETH Zurich), Christoph Zimmerli (ETH Zurich), Moira Norrie (ETH Zurich)

Data Model Driven Implementation of Web Cooperation Systems with Tricia
Christian Neubert (Technische Universität München), Thomas Büchner (Technische Universität München), Florian Matthes (Technische Universität München)

13:00 – 14:00 Lunch Break (Note: There are demos and exhibitions in HZ 15!)
29 September 2010  
First Conference Day  
Room HZ 6

14:00 – 15:00 Session 3 (Industry)

Chair: Suad Alagic

*Approaches to Data Modeling in Non-Relational Systems using Apache Cassandra*
Gary Dusbabek (Rackspace)

*Efficient Development of Event-Driven Systems with Versant Object Database*
Guenter Ressel-Herbert (Versant)

15:00 – 16:30 Keynote Panel *“New and old Data stores”*

Moderation: Alan Dearle and Roberto V. Zicari

Panelists:
  - Ulf Michael Widienius,
  - Michael Keith,
  - Patrick Linskey,
  - Robert Greene,
  - Leon Guzenda,
  - Peter Neubauer

16:30 – 17:00 Coffee Break  *(Note: There are demos and exhibitions in HZ 15!)*

17:00 – 18:30 Session 4 (Industry)

Chair: Suad Alagic

*MySQL Cluster - real time performance for web applications with 5x9 availability and sometimes SQL*
Bernd Ocklin (Sun Microsystems)

*Objects, Tables and Performance*
Stefan Wittmann (InterSystems)

*db4o Best Practices*
Eric Falsken (db4o),
Roman Stoffel (db4o)

Afterwards a reception/award and book ruffle will be at the 3rd floor!
09:00 – 10:00 Keynote: "Searching the Web of Objects"
Ricardo Baeza-Yates, VP, Yahoo! Research, Europe and Latin America

10:00 – 11:00 Session 5 (Industry)
Chair: Michael Grossniklaus

State of MariaDB
Michael Widenius

Dynamic columns in MariaDB: A feature that allows one to have a different set of columns for each row in a SQL table
Michael Widenius

11:00 – 11:30 Coffee Break

11:30 – 13:00 Session 6 (Industry)
Chair: Michael Grossniklaus

The Synergy Between the Object Database, Graph Database, Cloud Computing and NoSQL Paradigms
Leon Guzenda (Objectivity)

Accelerate Rapid Prototyping for Database Application
Guido Rost (Versant)

13:00 – 14:00 Lunch Break

14:00 – 15:00 Keynote: "Unifying Remote Data, Remote Procedures, and Web Services"
William Cook, University of Texas at Austin

15:00 – 16:00 Session 7 (Research)
Chair: Leon Guzenda

iBLOB: Complex Object Management in Databases Through Intelligent Binary Large Objects
Tao Chen (University of Florida),
Arif Khan (University of Florida),
Markus Schneider (University of Florida),
Ganesh Viswanathan (University of Florida)
16:00 – 16:30 Coffee Break

16:30 – 18:00 Session 8 (Research)

Chair: Leon Guzenda

*Solving ORM by MAGIC: MApping Generation and Composition*
David Kensche (RWTH Aachen University),
Christoph Quix (RWTH Aachen University),
Xiang Li (RWTH Aachen University),
Sandra Geisler (RWTH Aachen University)

*Closing Schemas in Object-Relational Databases*
Manuel Torres (University of Almeria),
Jose Samos (University of Granada),
Eladio Garvi (University of Granada)

*A Comparative Study of the Features and Performance of ORM Tools in a .NET Environment*
Stevica Cvetković (Faculty of Electronic Engineering, University of Niš),
Dragan Janković (Faculty of Electronic Engineering, University of Niš)
29 September 2010
Social Event
Room HZ 15

**Demonstration and Exhibition (12:30 – 18:30)**

Demonstration and exhibition will provide an opportunity for participants to see latest product and research developments in action. List of exhibitors:

- Versant
- InterSystems
- IBM
- sones

and the following demonstrations (at: 13:00 – 14:00 and 16:30 – 17:00):

- *Benchmarking Object Databases* by Alexandre de Spindler
- *Deductive Object Database Prototype* by Arturs Licis and Mikus Vanags
- *Eclipse Distributed Data Modeling* by Eike Stepper

**Reception and Best Objects and Databases Lecture Notes Award 2010 Ceremony (starting: 18:30)**

On the evening of September 29, a reception and the "Best Objects and Databases Lecture Notes" Award Ceremony will be held.

ODBMS.ORG has issued the "Best Objects and Databases Lecture Notes" Award 2010, for the most complete and up to date lecture notes on Objects and Databases, that have been, or have strong potential to be, instrumental to the teaching of theory and practice in the field of objects and databases.

Any Lecture Notes published in ODBMS.ORG during the years 2004–2010 is eligible for the 2010 award, under the following categories:

- ODBMS Lecture Notes
- OO Lecture Notes
- DB Lecture Notes
- NoSQL Lecture Notes

The best Best Object Databases Lecture Notes will be selected by an independent panel consisting of selected members of the ODBMS.ORG Experts Board, composed of:

- Prof. Suad Alagic, University of Southern Maine, USA
- Prof. Dr. Alfonso F. Cárdenas, UCLA, USA
- Leon Guzenda, Objectivity, USA
- John McHugh, Progress Software, USA
- Prof. Renzo Orsini, University of Venice, Italy
- Prof. Tore J.M. Risch, University of Uppsala, Sweden
- Prof. Nicolas Spyratos, University of Paris South, France
- Prof. Roberto V. Zicari, Goethe University Frankfurt, Germany.

The award consists of a plaque presented at the ICOODB 2010 conference in Frankfurt on September 29, 2010.

After the award a books ruffle will be performed. Don’t miss it.
Practical Information

Frankfurt

Since the Middle Ages, the former free city of Frankfurt on the river Main has developed into one of the most important European financial and trading centers. Today, 348 banks, including the European Central Bank, 148 foreign banks, and the world's fourth largest stock exchange, channel the flow of money. Everyday life here is international and multilingual, given that almost every third person in Frankfurt holds a non-German passport. Frankfurt's airport is an international hub, and its more than 45 million passengers a year make it the largest airport on the European continent. The Frankfurt Trade Fair, one of the oldest in the world, is also a global actor: be it the Frankfurt Book Fair, Music Fair, or International Motor Show, the fairgrounds attract approximately 2.7 million visitors to Frankfurt in peak years.

Lunches

Vouchers for lunch will be issued to paying participants when they register. These can be used in the University canteen (Casino or Anbau Casino). Both are located in building 2 (see map below) opposite the conference building. The vouchers are valid for: a starter, main dish with side dish, dessert and a soft-drink.

Internet Access

At the registration you will receive a personalized login password in order to use the free wireless LAN within the conference building.

Travel and Maps

From Frankfurt Airport

At Frankfurt Airport Regionalbahnhof take S8/9 (Direction Hanau), get off at Kontablerwache, then change to U 36 (Direction Westbahnhof) and get off at Uni Campus Westend.

From Frankfurt Hauptbahnhof (central railway station)

At Frankfurt Hauptbahnhof take U 4 (Direction Bockenheimer Warte) to the end of line, then change to U 36 (Direction Hainer Weg) and get off at Uni Campus Westend or

At Frankfurt Hauptbahnhof take any S at platform 101/102 (Direction City) get off at Hauptwache, then change to U 1/2/3 (Direction Heddenheim) and get off at Holzhausenstraße, follow the signpostings to Uni Campus Westend (10-minute walk).

Coming by car

Drivers please note that we can only arrange to have a limited number of cars be given access to the Lübecker Strasse entrance and parking lot.
From Cologne/ Koblenz

Take the A3 to the Wiesbadener Kreuz, turn off onto the A66, heading towards Frankfurt. Take the A66 towards Frankfurt. Exit at Miquelallee. Keeping right, follow until you reach Hansaallee. Turn right onto Hansaallee and follow it, keeping right.

Two blocks down on your right will be Lübecker Strasse. The entrance to the University will be marked by a sign on the right. Please use the parking lot P2 or P3.

From Wuerzburg/ Nuremberg

Take the A3 to Frankfurter Kreuz. Turn off here onto the A5 heading towards Kassel. Take the A5 until Nordwestkreuz Frankfurt. Turn off there onto the A66 heading towards Frankfurt. Follow the A66. Exit at Miquelallee. Keeping right follow Miquelallee, until you reach Hansaallee. Turn right onto Hansaallee and follow it, keeping right.

Two blocks down on your right will be Lübecker Strasse. The entrance to the University will be marked by a sign on the right. Please use the parking lot P2 or P3.

From Darmstadt/ Mannheim/ Karlsruhe

Take the A5 to Nordwestkreuz Frankfurt. Turn off here onto the A66 heading towards Frankfurt. Follow the A66. Exit at Miquelallee. Keeping right follow Miquelallee, until you reach Hansaallee. Turn right onto Hansaallee and follow it, keeping right.

Two blocks down on your right will be Lübecker Strasse. The entrance to the University will be marked by a sign on the right. Please use the parking lot P2 or P3.
Hauptgebäude / IG-Hochhaus
2 Casinogebäude + Anbau Casino
3 House of Finance
4 Hörsaalzentrum / ICOODB 2010
5 Rechts- und Wirtschaftswissenschaften
6 Studierendenwohnheim
7 Interkulturelles Begegnungszentrum

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