Full Program

Monday 08:30-09:00
Opening Ceremony
Room: Louise 1a

Monday 09:00-10:30
Keynote 1: The Role of Conceptual Modeling in Managing and Changing the Business
Carson Woo (University of British Columbia, Canada)
Room: Louise 1a
Chair: Tok Wang Ling (National University of Singapore, Singapore)
Abstract: p. 55

Monday 11:00-12:30
ER 1 - Modeling Goals and Compliance
Room: Louise 1a
Chair: Matthias Jarke (Aachen University, Germany)
CSRML: A Goal-Oriented Approach to Model Requirements for Collaborative Systems
Miguel A. Teruel, Elena Navarro, Víctor López-Jaquero, Francisco Montero, and Pascual González
Establishing Regulatory Compliance for Software Requirements
Silvia Ingolfo, Alberto Siena, and John Mylopoulos
Making Explicit some Implicit i* Language Decisions
Lidia López, Xavier Franch, and Jordi Marco

MoRe-BI Keynote 1: Modeling management information
Arthur E. Overlack (Altran, The Netherlands)
Room: Louise 1b
Chair: Ivan Jureta (Université de Namur, Belgium)
Abstract: p. 41

MoRe-BI 1 - Multidimensional Modeling
Room: Louise 1b
Chair: Ivan Jureta (Université de Namur, Belgium)
A model-driven approach for enforcing summarizability in multidimensional modeling
Jose-Norberto Mazón, Jens Lechtenbörger and Juan Trujillo
A Comprehensive Framework on Multidimensional Modeling
Oscar Romero and Alberto Abelló
Full Program

CICM Panel 1: SOA, C4ISR, Software Architecture

Panelists: John Callahan, Paul Losiewicz, T.C. Ting, Peter Chen, and others

Room: Louise 3b
Chair: Arne Sølvberg (Norwegian University of Science and Technology, Norway)

Monday 14:00-15:30
ER 2 - Human and Socio-Technical Factors
Room: Louise 1a
Chair: Bernhard Thalheim (Kiel University, Germany)

The Impact of Perceived Cognitive Effectiveness on Perceived Usefulness of Visual Conceptual Modeling Languages
Kathrin Figl and Michael Derntl

Effects of External Conceptual Models and Verbal Explanations On Shared Understanding in Small Groups
Wolfgang Maass, Veda C. Storey, and Tobias Kowatsch

Sociotechnical Trust: An Architectural Approaches
Amit K. Chopra, Elda Paja, and Paolo Giorgini

MoRe-BI 2 - Ontologies and Classification
Room: Louise 1b
Chair: Jose-Norberto Mazón (Universidad de Alicante, Spain)

Semantic Cockpit: An Ontology-driven, Interactive Business Intelligence Tool for Comparative Data Analysis
Bernd Neumayr, Michael Schrefl and Konrad Linner

Repairing Dimension Hierarchies under Inconsistent Reclassification
Monica Caniupan and Alejandro Vaisman

Ontologies and Functional Dependencies for Data Integration and Reconciliation
Abdelghani Bakhtouchi and Ladjel Bellatreche

Poster & Demo Session
Room: Louise 3a

An Eclipse Plugin for Validating Names in UML Conceptual Schemas
David Aguilera, Raúl García-Ranea, Cristina Gómez, and Antoni Olivé

KEYRY: a Keyword-based Search Engine over Relational Databases based on a Hidden Markov Model
Sonia Bergamaschi, Francesco Guerra, Silvia Rota, and Yannis Velegrakis

VirtualEMF: a Model Virtualization Tool
Cauê Clasen, Frédéric Jouault, and Jordi Cabot

Towards a model-driven framework for Web usage warehouse development
Paul Hernández, Octavio Glorio, Irene Garrigós, and Jose-Norberto Mazón

CRESCO: Construction of Evidence Repositories for Managing Standards Compliance
Rajwinder Kaur Panesar-Walawege, Torbjorn Skyberg Knutsen, Mehrdad Sabetzadeh, and Lionel Briand
Modeling Approach for Business Networks with an Integration and Business Perspective
Daniel Ritter and Ankur Bhatt

Mosto: Generating SPARQL Executable Mappings Between Ontologies
Carlos R. Rivero, Inma Hernández, David Ruiz, and Rafael Corchuelo

The CSTL Processor: A Tool for Automated Conceptual Schema Testing
Albert Tort, Antoni Olivé, and Maria-Ribera Sancho

A Tool for Filtering Large Conceptual Schemas
Antonio Villegas, Maria-Ribera Sancho and Antoni Olivé

Tutorial 1: Towards a theory of search queries
Jan Van den Busche (Hasselt University, Belgium)

Room: Louise 3b
Abstract: p. 37

Monday 16:00-17:30

ER 3: User Interfaces and Software Classification
Room: Louise 1a
Chair: Avigdor Gal (Technion - Israel Institute of Technology, Israel)

From Pattern-based User Interfaces to Conceptual Schemas and Back
Ravi Ramdoyal and Anthony Cleve

Automatically Mapping and Integrating Multiple Data Entry Forms into a Database
Yuan An, Ritu Khare, Il-Yeol Song, and Xiaohua Hu

External Variability of Software: Classification and Ontological Foundations
Iris Reinhartz-Berger, Arnon Sturm, and Yair Wand

MoRe-BI Keynote 2: Business Continuity Management
Philip Taylor (SAP Research, UK)

Room: Louise 1b
Chair: Stéphane Faulkner (Université de Namur, Belgium)
Abstract: p. 42

MoRe-BI 3 - Models and Concepts
Room: Louise 1b
Chair: Stéphane Faulkner (Université de Namur, Belgium)

GrHyMM: a Graph-oriented Hybrid Multidimensional Model
Francesco Di Tria

Formal Concept Analysis for Qualitative Data Analysis over Triple Stores
Frithjof Dau and Baris Sertkaya

Poster & Demo Session
Room: Louise 3a
CICM Panel 2: Incorporating Security in Conceptual Modeling

Panelists: John Callahan, Paul Losiewicz, T.C. Ting, Mark Elmore, Peter Chen, and others

Room: Louise 3b
Chair: Arne Sølvberg (Norwegian University of Science and Technology, Norway)

Tuesday 09:00-10:30

Keynote 2: Adding Meaning to your Steps

Stefano Spaccapietra (EPFL, Switzerland)

Room: Louise 1a
Chair: Lois Delcambre (Portland State University, USA)
Abstract: p. 36

Tuesday 11:00-12:30

ER 4 - Data Model Theory

Room: Louise 1a
Chair: Jacky Akoka (National Conservatory of Arts and Crafts, France)

Querying Conceptual Schemata with Expressive Equality Constraints
Andrea Calì, Georg Gottlob, and Andreas Pieris

A Precious Class of Cardinality Constraints for Flexible XML Data Processing
Flavio Ferrarotti, Sven Hartmann, and Sebastian Link

Formal Semantics and Ontological Analysis for Understanding Subsetting, Specialization and Redefinition of Associations in UML
Dolors Costal, Cristina Gómez, and Giancarlo Guizzardi

SeCoGIS 1 - Topology

Room: Louise 1b
Chair: Roland Billen (Université de Liège, Belgium)

Cognitive Adequacy of Topological Consistency Measures
Nieves R. Brisaboa, Miguel R. Luaces and Andrea Rodriguez

Referring Expressions in Location Based Services: The case of the 'Opposite' Relation
Phil Bartie, Femke Reitsma, Eliseo Clementini and Simon Kingham

The Neighborhood Configuration Model. a New Framework To Distinguish Topological Relationships between Complex Volumes
Tao Chen and Markus Schneider

Panel 1: New Directions for Conceptual Modeling

Panelists: Antoni Olivé, Sudha Ram, Gerd Wagner, Yair Wand, and Eric Yu

Room: Louise 3a
Chair: Jeffrey Parsons (Memorial University of Newfoundland, Canada)
Abstract: p. 39
Tuesday 14:00-15:30

ER 5 - Model Development and Maintainability

Room: Louise 1a
Chair: Sudha Ram (University of Arizona, USA)

Developing RFID Database Models for Analysing Moving Tags in Supply Chain Management
Wilfred Ng

Semi-Automatic Conceptual Data Modeling Using Entity and Relationship Instance Repositories
Ornsiri Thonggroom, Il-Yeol Song, and Yuan An

Impact of MDE Approaches on the Maintainability of Web Applications: an Experimental Evaluation
Yulkeidi Martínez, Cristina Cachero, Maristella Matera, Silvia Abrahao, and Sergio Luján

SeCoGIS Keynote: Semantic modelling and vario-scale geo-information

Peter van Oosterom (Delft University, The Netherlands)

Room: Louise 1b
Chair: Max Egenhofer (University of Maine, USA)
Abstract: p. 40

Variability@ER Keynote: ISO Initiatives on Software Product Line Engineering: Vision and Current Status

Timo K. Käärola (Univ. of Jyväskyla, Jyväskyla, Finland)

Room: Louise 3a
Chair: Arnon Sturm (Ben-Gurion University, Israel)
Abstract: p. 43

Variability@ER 1 - Standards and Techniques

Room: Louise 3b
Chair: Arnon Sturm (Ben-Gurion University, Israel)

An Overview of Techniques for Detecting Software Variability Concepts in Source Code
Angela Lozano

Tutorial 2: Patterns of Data Modeling

Michael Blaha (Modelsoft Consulting Corp, USA)

Room: Louise 3b
Abstract: p. 37
Tuesday 16:00-17:30

**ER 6 - Ontologies**

**Room:** Louise 1a  
**Chair:** Sven Hartmann (Clausthal University of Technology, Germany)

- **Generating SPARQL Executable Mappings to Integrate Ontologies**  
  *Carlos R. Rivero, Inma Hernández, David Ruiz, and Rafael Corchuelo*

- **Enterprise Monitoring Ontology**  
  *Patrício de Alencar Silva and Hans Weigand*

- **Multilingual Ontologies for Cross-Language Information Extraction and Semantic Search**  
  *David W. Embley, Stephen W. Liddle, Deryle W. Lonsdale, and Yuri Tijerino*

**SeCoGIS 2 - Topology and Semantics**

**Room:** Louise 1b  
**Chair:** Eliseo Clementini (University of L’Aquila, Italy)

- **Towards Modeling Dynamic Behavior with Integrated Qualitative Spatial Relations**  
  *Stefan Mitsch, Werner Retschitzegger and Wieland Schwinger*

- **Transforming conceptual spatiotemporal model into Object model with semantic keeping**  
  *Chamseddine Zaki, Myriam Servières and Guillaume Moreau*

- **Reasoning with Complements**  
  *Max Egenhofer*

**Variability@ER 2 - Patterns and Tools**

**Room:** Louise 3a  
**Chair:** Kim Mens (Université catholique de Louvain, Belgium)

- **Service Variability Patterns**  
  *Ateeq Khan, Gunter Saake, Christian Küstner, and Veit Köppen*

- **Variability in Multi-tenant Environments: Architectural Design Patterns from Industry**  
  *Jaap Kabbedijk and Slinger Jansen*

- **Feature Modeling Tools: Evaluation and Lessons Learned**  
  *Mohammed El Dammagh and Olga De Troyer*

**CICM Panel 3: Web Service Design and Conceptual Modeling**

  *Panelists: Paul Losiewicz, T.C. Ting, Peter Chen, and others*

**Room:** Louise 3b  
**Chair:** Arne Sølvberg (Norwegian University of Science and Technology, Norway)

Wednesday 09:00-10:30

**Keynote 3: Best-Effort Modeling of Structured Data on the Web**

  *Alon Halevy (Google, USA)*

**Room:** Louise 1a  
**Chair:** Manfred Jeusfeld (Tilburg University, The Netherlands)

**Abstract:** p. 36
Wednesday 11:00-12:30

**ER 7 - Evolution, Propagation and Refinement**

**Room:** Louise 1a  
**Chair:** Anthony Cleve (Université de Namur, Belgium)

- **Context Schema Evolution in Context-Aware Data Management**  
  *Elisa Quintarelli, Emanuele Rabosio, and Letizia Tanca*

- **Modeling the Propagation of User Preferences**  
  *Paolo Ciaccia and Riccardo Torlone*

- **Towards a Theory of Refinement for Data Migration**  
  *Bernhard Thalheim and Qing Wang*

**Foundations and Practices of UML Workshop**

**Room:** Louise 1b  
**Chair:** Guido Geerts (University of Delaware, USA)

- **On Automated Generation of Associations in Conceptual Database Models**  
  *Drazen Brdjanin and Slavko Maric*

- **Specification and Utilization of Core Assets: Feature-Oriented vs. UML-based Methods**  
  *Iris Reinhartz-Berger and Arava Tsoury*

- **Actor-eUML for Concurrent Programming**  
  *Kevin Marth and Shangping Ren*

**OntoCom 1 - Ontological Foundations for Conceptual Modeling**

**Room:** Louise 3a  
**Chair:** Oscar Pastor (Universidad Politécnica de Valencia, Spain)

- **Ontological Usage Schemes: A Working Proposal for the Ontological Foundation of Language Use**  
  *Frank Loebe*

- **Levels for Conceptual Modeling**  
  *Claudio Masolo*

- **Principled Pragmatism: A Guide to the Adaptation of Ideas from Philosophical Disciplines to Conceptual Modeling**  
  *David W. Embley, Stephen W. Liddle, and Deryle W. Lonsdale*

**Industrial Track 1 - Business Intelligence**

**Room:** Louise 3b  
**Chair:** Michael Blaha (Modelsoft Consulting Corp, USA)

- **QBX: A CASE Tool for Data Mart Design**  
  *Antonino Battaglia, Matteo Golfarelli, and Stefano Rizzi*

- **The Meta-Morphing Model Used in TARGIT BI Suite**  
  *Morten Middelfart and Torben Bach Pedersen*

- **Tool support for technology scouting using online sources**  
  *Elena Tsiporkova and Tom Tourwe*
Wednesday 14:00-15:30

**ER 8 - UML and Requirements Modeling**

**Room:** Louise 1a  
**Chair:** Yuan An (Drexel University, USA)

- **Design by Selection: A Reuse-based Approach for Business Process Modeling**  
  Ahmed Awad, Sherif Sakr, Matthias Kunze, and Mathias Weske

- **System Identification for Adaptive Software Systems: a Requirements Engineering Perspective**  
  Vítor E. Silva Souza, Alexei Lapouchnian, and John Mylopoulos

- **Using UML Profiles for Sector-Specific Tailoring of Safety Evidence Information**  
  Rajwinder Kaur Panesar-Walawege, Mehrdad Sabetzadeh, and Lionel Briand

**Panel 2: Modeling for Future Internet**

*Arne J. Berre (SINTEF, Norway) and Michele Missikoff (IASI-CNR, Italy)*

**Room:** Louise 1b  
**Abstract:** p. 39

**OntoCom 2 - Ontological Commitments and Experimental Evaluation**

**Room:** Louise 3a  
**Chair:** Yair Wand (University of British Columbia, Canada)

- **Experimental Evaluation of an Ontology-Driven Enterprise Modeling Language**  
  Frederik Gailly and Geert Poels

- **Unintended Consequences of Class-based Ontological Commitment**  
  Roman Lukyanenko and Jeffrey Parsons

- **Formal Ontologies, Exemplars, Prototypes**  
  Marcello Frizione and Antonio Lieto

**Industrial Track 2 - Industrial Applications of Conceptual Modeling**

**Room:** Louise 3b  
**Chair:** Hans Van Mingroot (IBM, Belgium)

- **Governance issues on heavy models in an industrial context**  
  Sabri Skhiri, Marc Delbaere, Yves Bontemps, Gregoire de Hemptinne, and Nam-Luc Tran

- **High quality technical documentation for large industrial plants using an enterprise engineering and conceptual modeling based software solution**  
  Steven J.H. van Kervel

- **Publishing open data and services for the Flemish Research Information Space**  
  Christophe Debruyne, Pieter De Leenheer, Peter Spyns, Geert van Grootel, and Stijn Christiaens
Wednesday 16:00-17:30

**ER 9 - Views, Queries, and Search**

Room: Louise 1a  
Chair: Riccardo Torlone (Università Roma Tre, Italy)

- Merging Relational Views: A Minimization Approach  
  Xiang Li and Christoph Quix

- Ontology Evolution in Data Integration: Query Rewriting to the Rescue  
  Haridimos Kondylakis and Dimitris Plexousakis

- Object-Oriented XML Keyword Search  
  Huayu Wu and Zhifeng Bao

- A Hidden Markov Model Approach to Keyword-based Search over Relational Databases  
  Sonia Bergamaschi, Francesco Guerra, Silvia Rota, and Yannis Velegrakis

**ER 10 - Process Modeling**

Room: Louise 1b  
Chair: Juan Trujillo (University of Alicante, Spain)

- Content-Based Validation of Business Process Modifications  
  Maya Lincoln and Avigdor Gal

- Visual Change Tracking for Business Process Models  
  Sonja Kabicher, Simone Kriglstein, and Stefanie Rinderle-Ma

- An Empirical Analysis of Human Performance and Error in Process Model Development  
  Alexander Nielen, Denise Költer, Susanne Mütze-Niewöhner, Jürgen Karla, and Christopher M. Schlick

**OntoCom 3 - Ontological Distinctions in Bioinformatics**

Room: Louise 3a  
Chair: Giancarlo Guizzardi (Federal University of Espírito Santo, Brazil)

- Gene Ontology based automated annotation: why it isn’t working  
  Matthijs van der Kroon and Ana M. Levin

**OntoCom Keynote: Modeling Services as Socio-Technical Systems**

Nicola Guarino (ISTC-CNR, Italy)

Room: Louise 3a  
Chair: Giancarlo Guizzardi (Federal University of Espírito Santo, Brazil)

Abstract: p. [44]

**CICM Panel 4: Searching of Entity-Relationship Data**

Panelists: Paul Losiewicz, T.C. Ting, Mark Elmore, Peter Chen, and others

Room: Louise 3b  
Chair: Arne Sølvberg (Norwegian University of Science and Technology, Norway)
Thursday 09:00-10:30

**ER 11 - Requirements and Business Intelligence**

**Room:** Louise 1a  
**Chair:** Marco Antonio Casanova (PUC Rio, Brazil)

*A Modularization Proposal for Goal-Oriented Analysis of Data Warehouses Using I-star*  
*Alejandro Maté, Juan Trujillo, and Xavier Franch*

**Strategic Models for Business Intelligence**  
*Lei Jiang, Daniele Barone, Daniel Amyot, and John Mylopoulos*

**Evolving Requirements in Socio-Technical Systems: Concepts and Practice**  
*Anna Perini, Nauman Qureshi, Luca Sabatucci, Alberto Siena, and Angelo Susi*

**Composite Indicators for Business Intelligence**  
*Daniele Barone, Lei Jiang, Daniel Amyot, and John Mylopoulos*

**Doctoral Consortium 1**

**Room:** Louise 1b  
**Chair:** Oscar Pastor (Universidad Politécnica de Valencia, Spain)

*Context-Aware Data Management*  
*Emanuele Rabosio*

*Abstract reasoning and individual differences in conceptual modelling*  
*Ilona Wilmont*

*Modeling and analyzing causality between threats to privacy and user behavior of privacy management on Online Social Networks*  
*Kijung Lee*

**Tutorial 3: Uncertain Schema Matching**

*Avigdor Gal (Technion-Israel Institute of Technology, Israel)*

**Room:** Louise 3a  
**Abstract:** p. 38

**WISM Keynote: Academic Social Networks**

*Jose Palazzo Moreira de Oliveira (Universidade Federal do Rio Grande do Sul, Brazil)*

**Room:** Louise 3b  
**Chair:** Giancarlo Guizzardi (Federal University of Espírito Santo, Brazil)  
**Abstract:** p. 42

**WISM 1 - Data Interoperability in Web Information Systems**

**Room:** Louise 3b  
**Chair:** Giancarlo Guizzardi (Federal University of Espírito Santo, Brazil)

*Simon McGinnes*
Thursday 11:00-12:30

**ER 12 - MDA and Ontology-Based Modeling**

Room: Louise 1a  
Chair: Christoph Quix (Technical University of Aachen, Germany)

- Incorporating Traceability in Conceptual Models for Data Warehouses by using MDA  
  *Alejandro Maté and Juan Trujillo*

- Lightweight Verification of Executable Models  
  *Elena Planas, Jordi Cabot, and Cristina Gómez*

- Towards a Model of Services Based on Co-creation, Abstraction and Restriction  
  *Maria Bergholtz, Paul Johannesson, and Birger Andersson*

- A Semantic Oriented Method for Conceptual Data Modeling in OntoUML Based on Linguistic Concepts  
  *Lucia Castro, Fernanda Baião, and Giancarlo Guizzardi*

**Doctoral Consortium 2**

Room: Louise 1b  
Chair: Stephen W. Liddle (Brigham Young University)

- Requirements Engineering in Data Warehouses  
  *Alejandro Maté*

- Introducing Canonical Structures over a Domain-Specific Collection  
  *Scott Britell*

**Tutorial 3: Uncertain Schema Matching**

*Avigdor Gal (Technion-Israel Institute of Technology, Israel)*

Room: Louise 3a  
Abstract: p. 38

**WISM 2 - Requirements Analysis, User Interaction, and Service Composition in Web Information Systems**

Room: Louise 3b  
Chair: Jose Palazzo Moreira de Oliveira (Universidade Federal do Rio Grande do Sul, Brazil)

- A Goal-Oriented Approach for Optimizing Non-Functional Requirements in Web Applications  
  *José Alfonso Aguilar, Irene Garrigós, and Jose-Norberto Mazón*

- Yet Another BPEL Extension for User Interactions  
  *Mohamed Boukhebeouze, Waldemar Pires Ferreira Neto, and Lim Erbin*

- Semantics-Enabled Web API Organization and Recommendation  
  *Devis Bianchini, Valeria De Antonellis, and Michele Melchiori*
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<td>Opening Session</td>
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<td>Keynote 1: The Role of Conceptual Modeling in Managing and Changing the Business</td>
<td>Keynote 2: Adding Meaning to Your Steps</td>
<td>Keynote 3: Best-Effects of Structured Data on the Web</td>
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<td>11:00</td>
<td>ER 3: Work and Organizational Fit</td>
<td>More-BI Keynote 1: Modelling Information</td>
<td>Coffee Break</td>
<td>Lunch</td>
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<td>12:30</td>
<td>ER 4: Data Model Theory</td>
<td>More-BI Keynote 2: Ontologies and Classification</td>
<td>Lunch</td>
<td>ER 7: Model Development and Maintainability</td>
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<td>14:00</td>
<td>CICM Panel 1: SOA, CA(ISK), Software Architecture</td>
<td>Tutorial 1: Towards a Theory of Search Queries</td>
<td>Tutorial 1: Patterns of Data Modeling</td>
<td>Lunch</td>
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**Social Activities**
- Downtown Brussels
- Beer Tasting Event: Delirium Café
- Welcome Reception: Brussels Town Hall
- Doctoral Consortium 1
- Doctoral Consortium 2

**Rooms**
- Louise 1a
- Louise 1b
- Louise 2a
- Louise 3b

**CICM Panels**
- Panel 1: New Directions for Conceptual Modeling
- Panel 2: Modeling for the Future
- Panel 3: Web Service Design and Conceptual Modeling
- Panel 4: Searching of Entity-Relationship Data

**Conferences**
- ER 1: Requirements and Business Intelligence
- ER 2: Human and Socio-Technical Factors
- ER 3: Work and Organizational Fit
- ER 4: Data Model Theory
- ER 5: Model Development and Maintainability
- ER 6: Ontologies
- ER 7: Evolution, Propagation, and Refinement
- ER 8: UML and Requirements Modeling
- ER 9: Views, Queries, and Search
- ER 10: Process Modeling
- ER 11: Requirements and Business Intelligence
- ER 12: MDA and Ontology-Based Modeling

**Tutorials**
- Tutorial 1: Towards a Theory of Search Queries
- Tutorial 2: Patterns of Data Modeling
- Tutorial 3: Uncertain Schema Matching
- Tutorial 4: Conceptual Modeling and Software Composition Analysis

**Keynotes**
- Keynote 1: The Role of Conceptual Modeling in Managing and Changing the Business
- Keynote 2: Adding Meaning to Your Steps
- Keynote 3: Best-Effects of Structured Data on the Web
- Keynote 4: The Role of Conceptual Modeling in Managing and Changing the Business
- Keynote 5: Adding Meaning to Your Steps
- Keynote 6: Best-Effects of Structured Data on the Web

**Conference Dinner**
- Comic Strip Center

**Venue**
- Brussels Town Hall
- Brussels Convention Center