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The logo consists of the letters "ULB" in a bold, white, sans-serif font, centered within a solid blue square.

ULB

Rationale

- Presented by leading researchers in the field
- Involvement of industry
- Goal: try to explore together how the BI domain will evolve in the forthcoming years
- A high ratio between tutors (7) and participants (55) to enable “community building” in the BI domain
- Technical and social aspects are equally important

Program

	Sunday, July 2	Monday, July 3	Tuesday, July 4	Wednesday, July 5	Thursday, July 6	Friday, July 7
08:30 - 09:00		Welcome Session Esteban Zimányi				
09:00 - 10:30		Temporal Data Management: An Overview Johann Gamper Free University of Bozen-Bolzano, Italy	Data Quality for Big Data Applications Christoph Quix RWTH Aachen University, Germany	Let's open the black box of deep learning! Jordi Vitria University of Barcelona, Spain	Processing Data Streams Toon Calders University of Antwerpen, Belgium	Programmatic ETL Christian Thomsen Aalborg University, Denmark
10:30 - 11:00		☕ Coffee break ☕				
11:00 - 12:30		Temporal Data Management: An Overview Johann Gamper Free University of Bozen-Bolzano, Italy	Data Quality for Big Data Applications Christoph Quix RWTH Aachen University, Germany	Let's open the black box of deep learning! Jordi Vitria University of Barcelona, Spain	Processing Data Streams Toon Calders University of Antwerpen, Belgium	Programmatic ETL Christian Thomsen Aalborg University, Denmark
12:30 - 14:00		🍴 Lunch 🍴				
14:00 - 15:30		Graph Queries and Analytics on Evolving Data Graphs Evaggelia Pitoura University of Ioannina, Greece	Data Profiling and Data Analytics Ziawasch Abedjan Technical University Berlin, Germany	Social Event <i>Comics Art Museum</i> and <i>Dinner in the city center</i>	Doctoral Colloquium (2 tracks)	Doctoral Colloquium (2 tracks)
15:30 - 16:00		☕ Coffee break ☕			☕ Coffee break ☕	
16:00 - 17:30		Graph Queries and Analytics on Evolving Data Graphs Evaggelia Pitoura University of Ioannina, Greece	Data Profiling and Data Analytics Ziawasch Abedjan Technical University Berlin, Germany		Doctoral Colloquium (2 tracks)	Doctoral Colloquium (2 tracks)
18:00 - 19:00	Registration	Poster Presentation	Poster Presentation			
19:00 - 20:30	Informal Welcome & Joint Light Meal	🍴 Dinner 🍴			🍴 Dinner 🍴	

Tutors

- Academia (5): Italy, Greece, Germany, Spain, Belgium, Denmark
- Close relationship with Erasmus Mundus Master & Doctorate IT4BI
- Reflecting on how to teach BI, how to develop BI curricula, how to do research in BI
- This summer school is one element in this reflection

Students

- Several editions that have students from both the IT4BI master and doctorate programs
- This allows a natural flow of students between these programs
- Also external participants from academia and industry
- Many different nationalities

The Eiffel Tower is illuminated at night, with its golden lights glowing against a dark blue sky. The tower's intricate lattice structure is clearly visible.

**First European Business Intelligence
Summer School (eBISS 2011)**

July 3 - 8, 2011 Paris, France

The Atomium structure is illuminated at night, with its blue lights glowing against a dark blue sky. The structure's unique, interconnected spheres and beams are clearly visible.

**Second European Business Intelligence
Summer School (eBISS 2012)**

July 15 - 21, 2012 Brussels, Belgium

Schloss Dagstuhl is illuminated at night, with its white walls and dark roof glowing against a dark blue sky. The building's Gothic-style architecture, including its towers and windows, is clearly visible.

**Third European Business Intelligence
Summer School (eBISS 2013)**

July 7 – 12 Schloss Dagstuhl, Wadern, Germany



**Fourth European Business Intelligence
Summer School (eBISS 2014)**

July 6 - July 11, 2014 Berlin, Germany



**Fifth European Business Intelligence
Summer School (eBISS 2015)**

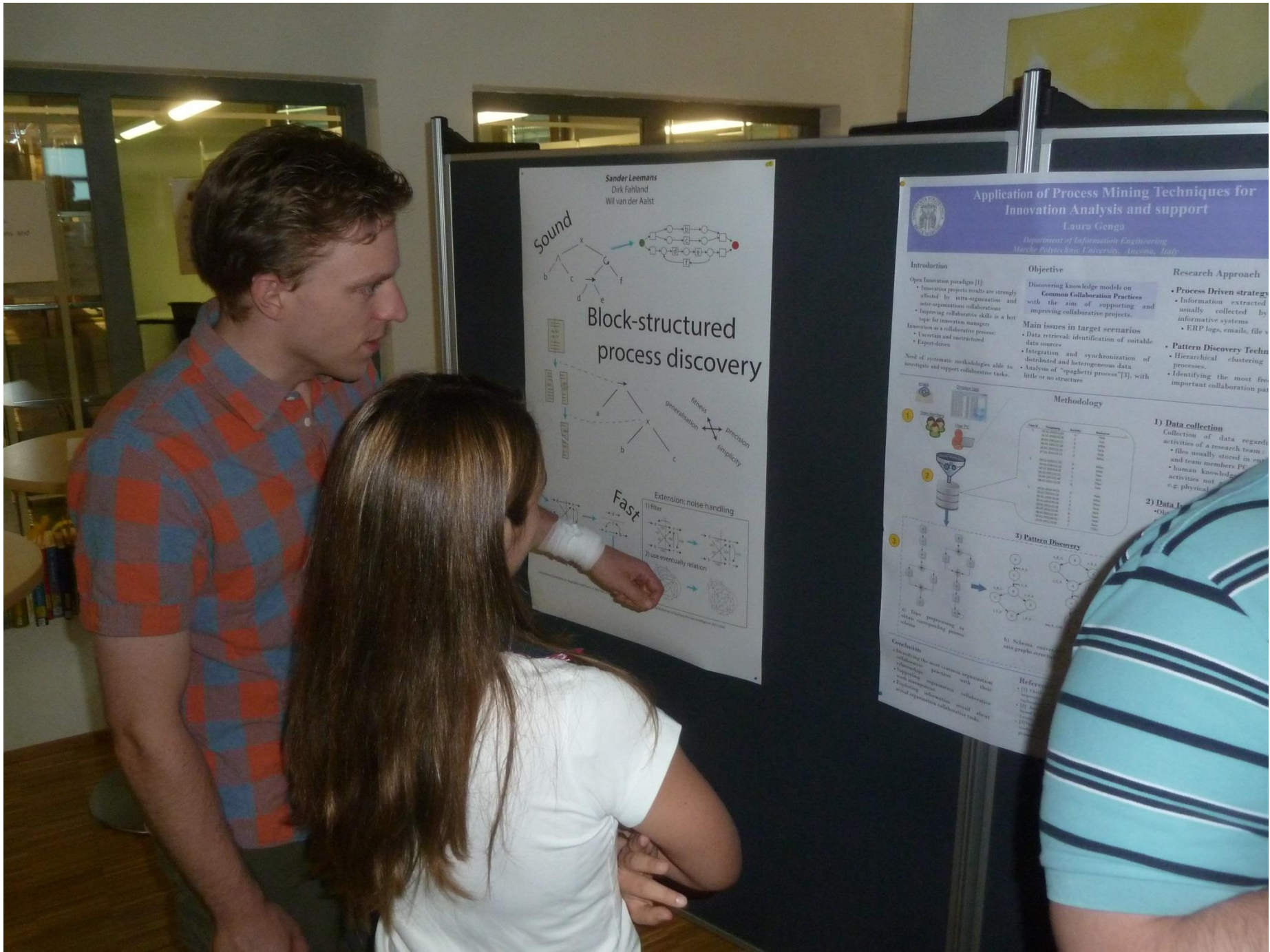
July 5 - July 10, 2015 Barcelona, Spain



**Sixth European Business Intelligence
& Big Data Summer School
(eBISS 2016)**

July 3 - July 8, 2016 Tours, France





Sander Leemans
Dirk Fahland
Wil van der Aalst

Sound

Block-structured
process discovery

Fast

Extension: noise handling

- 1) filter
- 2) use eventually relation

Application of Process Mining Techniques for Innovation Analysis and support
Laura Genga
*Department of Information Engineering
Marche Polytechnic University, Ancona, Italy*

Introduction

Open Innovation paradigm [1]:

- Innovation projects results are strongly affected by intra-organization and inter-organization collaborations
- Improving collaborative skills is a hot topic for innovation managers

Innovation as a collaborative process:

- Uncertain and unstructured
- Expert-driven

Need of systematic methodologies able to investigate and support collaborative tasks.

Objective

Discovering knowledge models on Common Collaboration Practices with the aim of supporting and improving collaborative projects.

Main issues in target scenarios

- Data retrieval: identification of suitable data sources
- Integration and synchronization of distributed and heterogeneous data
- Analysis of "spaghetti process"[3], with little or no structure

Research Approach

- **Process Driven strategy**
- Information extracted usually collected by informative systems
 - ERP logs, emails, file systems
- **Pattern Discovery Techn**
- Hierarchical clustering processes.
- Identifying the most frequent important collaboration patterns

Methodology

Project	Organization	Activities	Resources
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

- 1) **Data collection**
Collection of data regarding activities of a research team:
 - files usually stored in mail and team members PCs
 - human knowledge activities not e.g. physical
- 2) **Data preprocessing**
Data cleaning and normalization
- 3) **Pattern Discovery**
 - a) Tree preprocessing, to obtain corresponding pruned
 - b) Schema conversion into graph structure

Conclusions

- Identify the most common organization collaboration practices with their associated resources
- Compare organization with their own
- Exploring information mined about social organization collaborative tasks

References

- [1] G. Chesbrough, "Open Innovation: The New Imperative for Creating and Profiting from Intellectual Property," Harvard Business Review, vol. 83, no. 3, pp. 57-69, 2003.
- [2] S. Chesbrough, "Open Business Models: How Alliances Enable Innovation," Sloan Management Review, vol. 46, no. 2, pp. 52-61, 2004.
- [3] M. Bevan, "Spaghetti Process: A Case Study in Process Mining," in Proceedings of the 2005 IEEE International Conference on Data Mining, pp. 103-112, 2005.













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Business Intelligence

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Zimányi, Esteban (Ed.)

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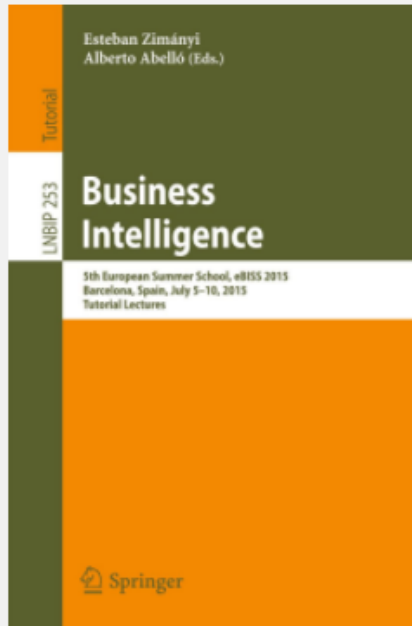
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Zimányi, Esteban

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