The Sixth International Conference on
Business Process Management
BPM’08

Politecnico di Milano
Milano, Italy, Sept. 1-5, 2008
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INTRODUCTION

Welcome Address

Dear colleague, thanks for participating in BPM 2008! We are delighted that you chose to attend the conference and we hope you will find it interesting and stimulating. You will enjoy 23 papers selected among 154 submissions, visionary keynotes by Paul Harmon, Michael Rosemann, and Peter Dadam, and a fascinating tutorial program. Six demos and nine workshops, stimulating discussions on emerging issues in BPM.

We also trust that the social program will also help make the conference and your stay in Milan most enjoyable.

Cheers!

Fabio Casati and Barbara Pernici
BPM’08 General Chairs

Danilo Ardagna
BPM’08 Organizing Chair
About the BPM Conference Series

BPM 2008 is the sixth conference in a series that provides the most distinguished specialized forum for researchers and practitioners in business process management (BPM). The conference has a record of attracting innovative research of the highest quality related to all aspects of business process management including theory, frameworks, methods, techniques, architectures, and empirical findings.

The BPM conference series is coordinated by the BPM Steering Committee. Its goal is to provide a forum on BPM to both academic researchers and industrial participants. The main conference includes scientific paper presentations, industry papers, a demo session and panels. In addition, a number of other scientific events such as workshops and tutorials, enrich the BPM program.

BPM 2008 is organized by the Information Systems group of the Department of Electronics and Information of Politecnico di Milano. Politecnico di Milano is a Technical University, established in 1863, offering degrees in Engineering, Architecture, and Industrial Design, with approximately 42,000 students.

The conference will maximise opportunities for interactions between participants. It will feature a full social programme starting with the welcome reception in the center of Milano with a typical “aperitivo” on Monday September 1st and with an informal reception at Politecnico on the first day of the conference to accompany the demo sessions. The conference dinner will take place at the Palazzo delle Stelline on Wednesday, September 3.
## BPM ’08 PROGRAM AT A GLANCE

### Monday, Sept. 1, 2008

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<td>Paul Harmon (Executive Editor and Founder, BPTrends, USA)</td>
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<td>Business Process Management - Today and Tomorrow</td>
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<td>10.30-11.00</td>
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<td>11.00-12.30</td>
<td>Session 2: Modeling guidelines</td>
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<td>12.30-14.00</td>
<td>Lunch</td>
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<td>14.00-15.30</td>
<td>Session 3: Flexibility &amp; User Interaction</td>
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<td>15.30-16.00</td>
<td>Coffee Break</td>
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<td>16.00-17.30</td>
<td>Session 4: Formal Methods</td>
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<td>17.30-18.30</td>
<td>Session 5: Demo session with light refreshment (in South building Foyer)</td>
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<td>18.30</td>
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### Wednesday, Sept. 3, 2008 Room S.0.1

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<tr>
<td>9.15-10.30</td>
<td>Session 6: Keynote 2</td>
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<td>Michael Rosemann (Queensland University of Technology, Australia)</td>
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<td>Understanding and Impacting the Practice of Business Process Management</td>
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<td>10.30-11.00</td>
<td>Coffee break</td>
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<td>11.00-12.30</td>
<td>Session 7: Modelling Paradigms &amp; Issues</td>
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<td>12.30-14.00</td>
<td>Lunch</td>
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<td>14.00-15.30</td>
<td>Session 8: Quantitative Analysis</td>
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<td>15.30-16.00</td>
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<td>16.00-17.00</td>
<td>Session 9: Process Similarity</td>
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<td>17.00-18.00</td>
<td>Session 10 - Panel 1: Managing Process Variability and Compliance in the Enterprise – An Opportunity Not To Be Missed, or a Fools Errand?</td>
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<td>Registration</td>
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| 9.15-10.30 | **Session 11: Keynote 3:**  
Peter Dadam (University of Ulm, Germany)  
The Future of BPM: Flying with the Eagles or Scratching with the Chickens? |
| 10.30-11.00 | Coffee break                                                             |
| 11.00-12.30 | **Session 12: BPM meets SOA**                                            |
| 12.30-14.00 | Lunch                                                                     |
| 14.00-15.00 | **Session 13 - Panel 2:**  
Future of BPMN - Technology and Industry                                  |
| 15.00-16.30 | **Session 14: Process Compliance and Discovery**                        |
| 16.30    | Conference closing and announcement of BPM 2009                           |

### Friday, Sept. 5, 2008

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BPM'08 Main Conference Program

Main conference presentations will be located in room S.0.1

Tuesday (September 2)

8.00 — 9.00 Registration

9.00 — 10.30 Session I: Welcome & Keynote

Welcome
Barbara Pernici and Fabio Casati, BPM'08 General Chairs
Giovanni Azzone, Pro-Rector of Politecnico di Milano
Wil Van Der Aalst, BPM Steering Committee Chair
Marlon Dumas and Manfred Reichert, BPM'08 Program Chairs
Danilo Ardagna, BPM'08 Organization Chair

Keynote 1: Paul Harmon (Executive Editor and Founder, BPTrends, USA)
Business Process Management - Today and Tomorrow
Chair: Fabio Casati

10.30 — 11.00 Coffee Break

11.00 — 12.30 Session II: Modeling Guidelines, chair: Akhil Kumar

• Jana Koehler, Thomas Gschwind and Janette Wong. Applying Patterns during Business Process Modeling
• Hajo Reijers and Jan Mendling. Modularity in Process Models: Review and Effects
• Juliane Siegeris and Oliver Grasl. Model Driven Business Transformation (Industry paper)

12.30 — 14.00 Lunch

14.00 — 15.30 Session III: Flexibility & User Interaction, chair: Schahram Dustdar

• Helen Schonenberg, Barbara Weber, Boudewijn van Dongen and Wil van der Aalst. Supporting Flexible Processes Through Log-Based Recommendations
• Massimiliano de Leoni, Wil van der Aalst and Arthur ter Hofstede. Visual Support for Work Assignment in Process-Aware Information Systems
• Todor Stoitsev, Stefan Scheidl, Felix Flentge and Max Mihluser. From Personal Task Management to End User Driven Business Process Modeling (Industry paper)

15.30 — 16.00 Coffee Break

16.00 — 17.30 Session IV: Formal Methods, chair: Jörg Desel

• Jussi Vanhatalo, Hagen Voelzer and Jana Koehler. The Refined Process Structure Tree
• Christian Stahl and Karsten Wolf. Covering Places and Transitions in Open Nets
• Niels Lohmann. Correcting Deadlocking Service Choreographies Using a Simulation-Based Graph Edit Distance
17.30 — 18.30 Session V: Demo Session, chair: Malu Castellanos
• Gero Decker, Hagen Overdick and Mathias Weske. Oryx - An Open Modeling Platform for the BPM Community
• Dominic Muuller, Manfred Reichert, Joachim Herbst, Detlef Koontges and Andreas Neubert. COREPROSim: A Tool for Modeling, Simulating and Adapting Data-driven Process Structures
• Gero Decker, Remco Dijkman, Marlon Dumas and Luciano García-Bañuelos. A Tool for Transforming BPMN to YAWL
• Ali Aït-Bachir, Marlon Dumas and Marie-Christine Fauvet. BESERIAL: Behavioural Service Interface Analyser

During the demo session a light refreshment will be available.

Wednesday (September 3)

8.30 — 9.15 Registration

9.15 — 10.30 Session VI: Keynote 2, chair: Manfred Reichert

Michael Rosemann (Queensland University of Technology, Australia): Understanding and Impacting the Practice of Business Process Management

10.30 — 11.00 Coffee Break

11.00 — 12.30 Session VII: Modelling Paradigms & Issues, chair: Hajo Reijers

• Ksenia Wahler and Jochen Kuester. Predicting Coupling of Object-Centric Business Process Implementations
• Gero Decker and Jan Mendling. Instantiation Semantics for Process Models
• Xiao Liu, Jinjun Chen and Yun Yang. A Probabilistic Strategy for Setting Temporal Constraints in Scientific Workflows

12.30 — 14.00 Lunch

14.00 — 15.30 Session VIII: Quantitative Analysis, chair: Frank Puhlmann

• Anne Rozinat, Moe Wynn, Wil van der Aalst, Arthur ter Hofstede and Colin Fidge. Workfow Simulation for Operational Decision Support Using Design, Historic and State Information
• Yudistira Asnar and Paolo Giorgini. Analyzing Business Continuity through a Multi-Layers Model
• Jiajie Xu, Chengfei Liu and Xiaohui Zhao. Resource Allocation vs. Business Process Improvement: How They Impact on Each Other?

15.30 — 16.00 Coffee Break

16.00 — 17.00 Session IX: Process Similarity, chair: Jan Mendling
• Remco Dijkman. Diagnosing Differences between Business Process Models

17.00 — 18.00 Session X: Panel Discussion

Managing Process Variability and Compliance in the Enterprise – An Opportunity Not To Be Missed, or a Fools Errand?
Organizers: Heiko Ludwig & Chris Ward, IBM Research
Panelists: Schahram Dustdar, TU Vienna, Austria, Manfred Reichert, University of Twente, The Netherlands, Jyoti Bhat, Infosys, India, Claudio Bartolini, HP, USA

20.00 Conference Dinner at Palazzo delle Stelline

Thursday (September 4)

8.30 — 9.15 Registration

9.15 — 10.30 Session XI: Keynote 3, chair: Barbara Pernici

• Peter Dadam (University of Ulm, Germany)
• The Future of BPM: Flying with the Eagles or Scratching with the Chickens?

10.30 — 11.00 Coffee Break

11.00 — 12.30 Session XII: BPM meets SOA, chair: Marlon Dumas

• Cesare Pautasso. BPEL for REST
• Thomas Hettel, Christian Flender and Alistair Barros. Scaling Choreography Modelling for B2B Value-Chain Analysis
• Sebastian Stein, Stefan Khne, Jens Drawehn, Sven Feja and Werner Rotzoll. Evaluation of OrViA Framework for Model-Driven SOA Implementations: An Industrial Case Study (Industry Paper)

12.30 — 14.00 Lunch

14.00 — 15.00 Session 13 - Panel 2

Future of BPMN - Technology and Industry
Organizer: Vishal Saxena, Oracle

15.00 — 16.30 Session XIV Process Compliance and Discovery, chair: Wil van der Aalst

• Ahmed Awad, Gero Decker and Mathias Weske. Efficient Compliance Checking using BPMN-Q and Temporal Logic
• Pedro Diniz and Diogo Ferreira. Automatic Extraction of Process Control Flow from I/O Operations
• Josep Carmona, Jordi Cortadella and Michael Kishinevsky. A region-based algorithm for discovering Petri nets from event logs

Conference closing and announcement of BPM 2009
KEYNOTES

September 2 2008

Paul Harmon
Executive Editor and Founder, BPTrends, USA
http://www.bptrends.com/

Business Process Management: Today and Tomorrow

Companies have been striving to improve their business processes for decades, but, in the past few years, the emergence of a variety of new software technologies and the relentless competitive pressures on large companies to outsource and to develop a worldwide presence has taken the interest in business processes to a new level of intensity. In this talk we consider some of the roots of today's interest in business process management (BPM), the growing resources available to those who want to undertake business process change, the emerging BPM systems that seem destined to transform businesses in the next decade, and the implications this transformation will have for those who work in the new generation of process-oriented organizations.

Paul Harmon is a consultant, author and analyst concerned with applying new technologies to real-world business problems. He is the author of Business Process Change: A Manager’s Guide to Improving, Redesigning, and Automating Processes (2003). He has previously co-authored: Developing E-business Systems and Architectures (2001), Understanding UML (1998), and Intelligent Software Systems Development (1993). Mr. Harmon has served as a senior consultant and head of Cutter Consortium's Distributed Architecture practice and has edited several Cutter newsletters, including Expert Systems Strategies, CASE Strategies, and Component Development Strategies. Paul is Executive Editor and Founder of Business Process Trends, a professional newsletter dedicated to BPM, as well as Chief Consultant and Founder of Enterprise Alignment, a professional services company providing educational and consulting services to managers interested in understanding and implementing business process change. In this and other capacities, Paul has worked on major process redesign projects with Bank of America, Wells Fargo, Security Pacific, Prudential, and Citibank, among others.
Understanding and Impacting the Practice of Business Process Management

This presentation will explore how BPM research can seamlessly combine the academic requirement of rigor with the aim to impact the practice of Business Process Management. After a brief introduction into the research agendas as they are perceived by different BPM communities, two research projects will be discussed that illustrate how empirically-informed quantitative and qualitative research, combined with design science, can lead to outcomes that BPM practitioners are willing to adopt. The first project studies the practice of process modeling using Information Systems theory, and demonstrates how a better understanding of this practice can inform the design of modeling notations and methods. The second project studies the adoption of process management within organizations, and leads to models of how organizations can incrementally transition to greater levels of BPM maturity. The presentation will conclude with recommendations for how the BPM research and practitioner communities can increasingly benefit from each other.
The Future of BPM: Flying with the Eagles or Scratching with the Chickens?

Service-oriented architectures, business process management (BPM) systems, and BPM in general receive a lot of attention these days and the number of articles which describe the benefits and the great potential of these technologies has significantly increased. It is something like a second wave after the first (and short) workflow hype in the middle of the 90's. However, the contemporary hype in newspapers and IT magazines does not really reflect reality. In fact, much more companies are still thinking about whether and in which form they shall introduce these technologies rather than concretely performing projects in these fields. And many companies which have started respective projects are still in the phase of designing and implementing (web) services or in evaluating SOA platforms and repositories of different vendors; i.e., they are still not bringing (larger) processes into production. Nevertheless, expectations are very high: Everything will become easier, will become more flexible, implementation of cross-organizational processes will become business as usual, and process management systems will enable new kinds of process-related applications which have to be performed manually today.

In fact, BPM has a great potential. However, to realize this potential in practice, we have to face much more the challenges of the real world, we have to learn more seriously from how business processes are executed today, and we have to understand how they deal with exceptional situations. It is not hard to predict what will happen with the current BPM hype if users should discover that they cannot do much more with these technologies than with previous ones or, even worse, that they can do less. And no organization will accept to become inflexible. - It is partially up to us, whether BPM will become a big and sustainable success or whether it will share the fate of many other hypes (like Computer Integrated Manufacturing (CIM) at the end of the 80's).

This talk will present real-world examples from different domains to illustrate where we jump too short. It will use the ADEPT project to show how stimulating it can be also from a research point of view to face the reality as it is.

Peter Dadam is full professor at the University of Ulm and director of the Institute of Databases and Information Systems. Before he was director of the department of Advanced Information Management (AIM) at the IBM Heidelberg Science Center, where he managed the AIM-P project on advanced database technology. His current research interests focus on next generation process management technology and the use of this technology in advanced application areas.
PANELS

PANEL 1:

Managing Process Variability and Compliance in the Enterprise - An Opportunity Not To Be Missed, or a Fools Errand?

Organizers: Heiko Ludwig & Chris Ward, IBM Research

Panelists: Schahram Dustdar, TU Vienna, Austria, Manfred Reichert, University of Twente, The Netherlands, Jyoti Bhat, Infosys, India, Claudio Bartolini, HP, USA

Business process management has taken hold in enterprises and corresponding process management applications are deployed widely, in particular in large, process-oriented organizations. Managing large sets of process specifications deployed all over the enterprise has since become a pressing issue. Enterprises have for many years supported process variability as a necessary evil, but one which could be contained by geographic regionalization of the process variations or by focus on particular accounts that are served with the process. As enterprises lunge towards supporting a more globally integrated posture this level of maturity for process variability management is no longer sufficient. Work packets that can be usefully executed in a manner so as to maximize the relative skills availability and cost basis of the distributed resource pool are moved quickly and efficiently between execution centers and capability by workflow engines. Additionally, enterprises are increasingly looking towards multi-vendor and service oriented quantization of work in order to facilitate fulfilment of these services by other businesses, providing a light-weight agile approach to service fulfilment. In addition to operational streamlining regulatory requirements demand managing process variations for compliance with government or industry standards, in particular in the sectors of health and finance.

These changes argue for a far more disciplined approach to managing process specifications and handling process variability and compliance, one which is flexible enough to handle unavoidable regional or customer process variations and yet is sufficiently flexible to ensure the macro process flows continue unencumbered and regulatory requirements are being observed. The problem then arises: how to control these process variations? On the one hand, allowing the bottom-up development of process definition encourages organic differentiation of best practices (which nevertheless conform to regulation). On the other hand enforcement of top down process specifications ensures that global process flows through the uniform application of standards.

In this panel we will argue whether strongly controlling process variability and enforce compliance is an opportunity that cannot be missed, one that is necessary for enterprise agility, or a fools errand and doomed to impossible to maintain and irrelevant to the final outcome.
PANEL 2: Future of BPMN - Technology and Industry

Organizer: Vishal Saxena, Oracle

BPMN has seen huge adoption over the past four years. It has become very popular with business analysts, tool vendors, practitioners and end users. BPMN brings business and IT together in a collaborative environment where as designed and as implemented are the same. In this panel, we discuss the two major forces that will shape up the future of BPMN. On the one side are technology trends like Web 2.0, SaaS, Semantic web and Cloud Computing which will impact the way people define and execute their business processes, and at the same time there are the needs identified by industry practitioners to facilitate meaningful adoption like closer alignment with organizational models, facilitating process discovery and monitoring. We believe that these two forces will define the future of the BPM industry and therefore we have invited a slew of BPMN and technology practitioners to this panel to discuss the future path for BPMN.
TUTORIALS

TUTORIAL 1: Semantic Business Process Management
Agata Filipowska, Sami Bhiri, Sebastian Stein, Barry Norton, Marin Dimitrov

The tutorial explains and demonstrates how the combination of Business Process Management (BPM) and Semantic Web Services (SWS) can eliminate the deficiencies that current BPM technology exhibits. The tutorial will present the state of the art in both areas (business process management and process execution, the SOA concept in BPM, the SWS approach and frameworks, etc.), motivate the need for explicit use of semantics to overcome the current challenges in BPM, and present a consolidated technical framework that integrates SWS into BPM technology.

Intended Audience

The target audience of the proposed tutorial includes researchers as well as practitioners that work in the areas of BPM or SWS and are interested in the latest technological developments. Although no specific pre-knowledge is required to follow the tutorial, basic knowledge in BPM, ontologies, and Web services may allow better following the tutorial and for gaining more benefiting from it. However, such basic knowledge can be expected from attendees of Semantic Web conferences.

The material to be handed out to the attendees will be a booklet with the tutorial slide set, and a CD with the software as well as further material. We will also provide this material for download before the tutorial day on our tutorial homepage, see: http://www.ip-super.org/content/view/114/63/.

Dr. Sami Bhiri is a postdoctoral researcher at DERI - the National University of Ireland, Galway, where he is involved in managing several EU projects. Before joining DERI, he was a research and teaching assistant in the University of Nancy 1 and in the ECOO team of the LORIA-INRIA research laboratory. His research interests are in the area of applying semantics to B2B Integration, Service Oriented Computing and Business Process Management. He published over 20 research papers in journals and academic conferences, gave tutorials on several topics including B2B integration and workflow management.

Sebastian Stein is responsible for the requirements and software specification of the ARIS SOA Architect product at IDS Scheer AG. He is also working at IDS Research participating in different public research projects. His research focus is on combining the concept of service oriented architecture (SOA) with business process management (BPM). He received an MSc in Software Engineering at Blekinge Institute of Technology, Sweden and a German diploma in Business and Computer Science at the University of Applied Sciences Dresden, Germany. He is working on his PhD thesis at the University of Kiel, Germany.
Barry Norton is a Research Associate in Semantic Web Services at the Knowledge Media Institute of the Open University. He has delivered several tutorials on Semantic Web Services and Semantic Business Process Management at major events, and is the co-founder of the Young Researchers Workshop on Service-Oriented Computing. His research interests concern process models and behavioural reasoning, and he has been involved in several major projects including Dot.Kom, AKT, DIP and SUPER. He is an active member of the STI Conceptual Models for Services working group, formerly the WSMO working group, and of the OASIS Semantic Execution Environment technical committee.

Marin Dimitrov is a senior project manager at Ontotext Lab, the R&D division of Sirma Group, with more than 9 years of experience in the company. His work experience includes software and research in various areas, such as enterprise integration systems, e-commerce, information retrieval and extraction, ontology management, semantic web services and semantic business process management as well as experience in 5 EU IST research projects. Marin Dimitrov has a MSc degree in Computer Science and his research interests include human language technologies, semantics for business processes management and web services. He has more than 15 publications in different research areas.

TUTORIAL 2: Process Mining: Beyond Business Intelligence
W.M.P. van der Aalst

More and more information about processes is recorded in the form of event logs. Equipment ranging from embedded systems to enterprise information systems are logging the behaviors that take place. This data explosion allows for the analysis of reality and the construction of models that reflect what actually happened. This can be used to diagnose and improve processes in a variety of domains. Especially business processes involving human actors are interesting to diagnose because these processes are not controlled by software and there may be a gap between what people think that happens and what really happens. Process mining provides a versatile and extendible way to analyze such processes. Using process mining techniques it is possible to extract different types of models from event logs, e.g., the construction of a process and organizational models. Moreover, other techniques support the conversion and analysis of models. Using conformance checking techniques models can also be compared with reality and existing models can be enhanced with additional information, e.g., indicating bottlenecks in a process. Many vendors claim to offer support for Business Intelligence (BI). Unfortunately, these BI tools are not intelligent at all. Moreover, these tools require input data of a particular type and a predefined model. Process mining overcomes these limitations and makes it possible to extract new knowledge from information systems in a truly intelligent way. Process mining addresses the problem that most organizations have very limited information about what is actually happening in their organization. In practice, there is often a significant gap between what is prescribed or supposed to happen, and what actually happens. Only a concise assessment of the organizational reality, which process mining strives to deliver, can help in verifying process models, and ultimately be used in a process redesign effort. This tutorial aims to provide an overview of process mining techniques and, using many real-life
examples, it will be shown how particular techniques can be applied and what kind of insights such analyses provide.

**Intended audience**

The tutorial is intended for both researchers and practitioners in the area of business process management. It is assumed that people have a basic understanding of business process management and are familiar with the basics of process modeling using languages such as BPMN, EPC, or similar. It aims at an audience that is interested in the analysis of processes as they actually happen in reality.

Prof.dr.ir. Wil van der Aalst is a full professor of Information Systems at the Technische Universiteit Eindhoven (TU/e). Currently he is also an adjunct professor at Queensland University of Technology (QUT). His research interests include workflow management, process mining, Petri nets, business process management, process modeling, and process analysis. Wil van der Aalst has published more than 85 journal papers, 13 books (as author or editor), 200 refereed conference/workshop publications, and 25 book chapters. Many of his papers are highly cited (he has an h-index of more than 50 according to Google Scholar) and his ideas have influenced researchers, software developers, and standardization committees working on process support. For more information about his work visit: www.workflowpatterns.com, www.workflowcourse.com, www.processmining.org, www.yawlsystem.com, www.wvdaalst.com.

**TUTORIAL 3: Analyzing Risk and Continuity of Business Objectives**

*Yudistira Asnar, Paolo Giorgini, and Fabio Massacci*

These days, IT systems become, more and more, significant achieving the business objectives of an organization. Moreover, the correct operation of IT systems is becoming more closely related with human behaviors. In this setting, called socio-technical systems, it is essential that ones analyze the system's risks and continuity along with the organization-setting. The focus of this tutorial is presenting a framework that allows analysts to assess the risk and continuity of business goals of an organization. First, we present the standard approach is to analyze the risk and continuity of business over IT infrastructures and their challenges. Afterward, we provide an overview of the state-of-the-art and the challenges in the field of risk management and business (process) management. Although they support the representation and analysis to assess the risk suffered by an organization, they are only be able to to capture smaller notions of risks (i.e., risks result from the failure of infrastructures). We argue that risks are more than just uncertain events that obstruct IT infrastructures. Many risks threat business processes/objectives without impacting any underlain infrastructures. For instance, in air traffic management the risk of issuing incorrect instruction by a controller does not affect any assets/infrastructures of the system, but surely it may put the air traffic management service out of business. To maintain the business objectives, analysts should consider all risks at any level of business (i.e., objective, process, infrastructure).

Thus, we propose the Tropos Goal Risk (GR) methodology that improves Tropos, an agent-oriented software development methodology, in order to analyze risk and continuity of business goals in an organization. The GR framework is employed with the concepts of goal, process, resource, event, and countermeasure that are organized into asset, event, and treatment layer. Here risks are modeled by events with negative impact, and opportunities as events with positive impact. By means of this
representation, analysts can conduct trade-off analysis over an event that acts as a risk and an opportunity in the same time.

Treatments are, essentially, processes that are aiming at mitigating the risk either by reducing its likelihood or its severity impacting business objects (goal, process, and resource). The GR framework is equipped with two basic reasoning mechanisms: 1) computing the risk level for a given setting (i.e., treatments), and 2) proposing a set of treatment that is required to achieve the acceptable level of risk. The other reasoning, called continuity reasoning, is aiming at assessing the adequacy of a contingency recovery plan with respect to the Maximum Time-Period of Disruption (MTPD) for maintaining the continuity of processes and consequently the business.

In the tutorial, we show how the framework supports business (process) engineer in validating their business solutions to meet their business objectives. We illustrate the Tropos GR framework through its application to comprehensive case studies (e.g., air traffic management, loan-originating process of bank). Finally, we demonstrate a graphical CASE tool that supports the Tropos GR framework. A key feature of this tool is the support for formal automated reasoning that allows analysts to verify the adequacy, sufficiency, and side-effects of solutions in maintaining the business goals.

**Intended Audience**

The intended audiences are people who have a reasonable understanding of business process/strategy engineering, and would like to become acquainted with modeling and analyzing risk and continuity aspects of their solutions in realizing the business objectives.

Yudistira Asnar ([http://yudis.asnar.net](http://yudis.asnar.net)) is PhD Student at University of Trento. He received a B.Eng. Degree in Informatics Engineering at the Bandung Institute of Technology-ITB (Indonesia) in 2002. He visited the Open University, United Kingdom in 2007. His research interests lie in the area of requirement engineering, agent systems, and security-dependability risk management. The main focus of his research is on the modelling and analysing risks along the organization and actors/agents analysis.

Paolo Giorgini ([http://disi.unitn.it/~pgiorgio/](http://disi.unitn.it/~pgiorgio/)) received his Ph.D. degree from Computer Science Institute of University of Ancona (Italy) in 1998. He has worked on the development of requirements and design languages for agent-based systems; he is one of the founder of Tropos, an agent-based oriented software engineering methodology. His publication list includes more than 140 refereed journal and conference proceedings papers and eight edited books. He is Co-editor in Chief of the International Journal of Agent-Oriented Software Engineering (IJAOSE).

Fabio Massacci ([http://www.massacci.org](http://www.massacci.org)) received a M.Eng. in 1993 and Ph.D. in Computer Science and Engineering at University of Rome “La Sapienza” in 1998. He joined University of Siena as Assistant Professor in 1999, and was visiting researcher at IRI Toulouse in 2000, and joined Trento in 2001 where is now full professor. His research interests are in security requirements engineering, formal methods and computer security. His h-index on Google Scholar is 20, and his h-index normalized for individual impact (hI_norm) is 13 (in June/2008). He is currently scientific coordinator of multimillion Euros industry R&D European projects on security and compliance.
TUTORIAL 4: Management of Service-Oriented Implementations of Business Processes: From Quality of Service to Business Value

Vladimir Tosic, Claudio Bartolini, and Patrick C. K. Hung

Management (monitoring and control) of business processes is needed to ensure regular operation, attain or surpass the guaranteed quality of service (QoS), accommodate change, keep track of the consumed resources, and perform billing. Monitoring is used to measure QoS and/or business value attributes, while control is used to reactively/proactively ensure that the measured quantities are within desired (guaranteed) boundaries. To successfully perform management activities, a comprehensive specification of management goals is necessary.

Management of business processes can be viewed from several aspects and at several layers of granularity. In this tutorial, we will discuss monitoring and control of service-oriented implementations of business processes, with particular emphasis on QoS management and maximization of business value. That is, we will assume that services implementing business process activities are using Web service technologies such as SOAP and the Web Services Description Language (WSDL) and that they are composed using technologies such as the Web Services Business Process Execution Language (WSBPEL). By QoS we will mean technical metrics such as response time, throughput, and availability, while by business value we will mean both financial metrics such as prices, profit, and return on investment (ROI) and non-financial business metrics such as number of customers, market share, and customer satisfaction.

The tutorial will first clarify the importance of these topics and why the widely used basic Web service technologies are not enough. Then, it will explain theoretical principles for specification, monitoring, and control of QoS and business value attributes. Examples of these principles are contracts (including service level agreements - SLAs), policies, intermediaries, probes, and multiple request queues. Next, it will provide a critical analysis of several important specification languages, research infrastructures, industrial products, and standardization efforts in this area. Currently there are many more results on management maximizing QoS than on management maximizing business value, but the latter promises better alignment between business and information technology (IT). Therefore, this tutorial will also present a brief introduction into business-driven IT management (BDIM) and will discuss possible approaches to extend QoS driven management solutions into business value driven management solutions. At the end, a number of open topics and resources for further study will be identified.

After attending this tutorial, participants will have general knowledge and understanding of the challenges and fundamental concepts related to the specification, monitoring, and control of QoS and business value attributes of Web services and business processes implemented with Web services, the state of the art in the area, and open research issues. This knowledge can help them in making decisions about using some of the existing technologies and/or in conducting further research and development in the area.
**Intended Audience**

Academic and industrial researchers, educators, graduate students, software developers, network and system administrators, managers, decision makers, policy makers, and others who are interested in business processes and/or Web service technologies and want to go beyond the basics.

Vladimir Tosic is a Researcher at NICTA in Sydney, Australia; a Visiting Fellow at the University of New South Wales, Australia; and an Adjunct Research Professor at the University of Western Ontario, Canada. He previously held several positions in industry and academia in Europe, Canada, and Australia. He received many academic awards, including the 2001 Upsilon Pi Epsilon / IEEE Computer Society Award for Academic Excellence. Most of his peer-reviewed papers were in the area of management of service-oriented architectures and business processes. Additionally, he presented several conference tutorials about this topic and co-organized several related workshops. Web page: [http://www.nicta.com.au/people/tosicv](http://www.nicta.com.au/people/tosicv)

Claudio Bartolini is a Principal Researcher at HP Laboratories in Palo Alto, USA. His background is on architecture and design of software systems and frameworks. His current research interest is in methodologies for business and IT alignment. In addition to many journal, conference, and workshop papers and book chapters, he co-authored the W3C WSCL specification and holds a number of patents in various countries. He chaired a number of conferences and workshops and presented tutorials at several international conferences. Claudio envisioned, founded and chairs the series of IEEE workshops on business-driven IT management (BDIM) since 2006. Web page: [http://www.hpl.hp.com/personal/Claudio_Bartolini](http://www.hpl.hp.com/personal/Claudio_Bartolini)

Patrick Hung is an Associate Professor and IT Director at the Faculty of Business and Information Technology in UOIT, Canada and an Adjunct Assistant Professor at the Department of Electrical and Computer Engineering in University of Waterloo. He is an executive committee member of the IEEE Computer Society's Technical Steering Committee for Services Computing, a steering member of EDOC “Enterprise Computing,” and an associate editor/editorial board member/guest editor in several international journals such as the IEEE Transactions on Services Computing, International Journal of Web Services Research (IJSWR) and International journal of Business Process and Integration Management (IJBPIM). Web page: [http://www.cs.ust.hk/~cshck/](http://www.cs.ust.hk/~cshck/)
Workshops Programme

Nine workshops are running on the first day of the conference, on September 1, 2008:

- 2nd International Workshop on Collaborative Business Processes - CBP-08
- 4th International Workshop on Business Process Design - BPD-08
- 4th International Workshop on Business Process Intelligence - BPI-08
- 1st International Workshop on Business Process Management and Social Software - BPMS2-08
- 1st International Workshop on Model-Driven Engineering for Business Process Management - MDE4BPM-08
- 1st International Workshop on Process Management for Highly Dynamic and Pervasive Scenarios - PM4HDPS-08
- 2nd International Workshop on Process-oriented information systems in Healthcare ProHealth-08
- 1st International Workshop on QoS of Self-Healing Web services - QSWS-08
- 3rd International Workshop Semantics for Web services - semantics4ws-08
2nd International Workshop on Collaborative Business Processes
CBP-08

Workshop Chairs
Chengfei Liu, Swinburne University of Technology, Australia
Wasim Sadiq, SAP Research, Australia
Xiaohui Zhao, Swinburne University of Technology, Australia

Technical Program

8.00 — 9.00 Registration

9.00 — 10.30 Session I
- 9.00 — 9.15
  Brief Introduction of CBP workshop
- 9.15 — 9.40
  Recursive Construction and Evolution of Collaborative Business Processes (Nikolay Mehandjiev, Iain Stalker, Martin Carpenter)
- 9.40 — 10.05
  Characterization of Methods for Process-Oriented Engineering of SOA (Jan Ricken, Michael Petit)
- 10.05 — 10.25
  Quality Contracts for Cooperative Services and Associated Resources (Marco Comuzzi, Mariagrazia Fugini, Stefano Modafferi)

10.30 — 11.00 Coffee Break

11.00 — 12.30 Session II
- 11.00 — 11.25
  Dynamic Selection of Service Peers with Multiple Property Specifications (Jun Shen, Shuai Yuan, Aneesh Krishna)
- 11.25 — 11.50
  Distribution and Composition of Collaborative Business Processes through Peer-to-Peer Networks (Dirk Werth, Philipp Walter)
- 11.50 — 12.10
  Towards a BPMN Semantics using UML models (Oana Nicolae, Mirel Cosulschi, Adrian Giurca, Gerd Wagner)
- 12.10 — 12.30
  A Case Study of Business Process Interoperability in a Logistics Supply Chain Environment (Simon Martin, Laurent Bagnoud)

12.30 — 14.00 Lunch

19.30 Welcome reception at Galleria Meravigli
4th International Workshop on Business Process Design  
BPD-08

Workshop Chairs  
Hajo Reijers, Eindhoven University of Technology, The Netherlands  
Selma Limam Mansar, Carnegie Mellon University, Qatar  
Michael Rosemann, Queensland University of Technology, Australia

Technical Program

8.00 — 9.00 Registration

9.00 — 9.15  
Opening (Hajo Reijers, Eindhoven University of Technology, The Netherlands)

9.15 — 10.15  
Key note: "Transcience and Continuity in Process Management" (Stefan Heusinkveld, Raboud University, The Netherlands)

10.15 — 10.30 Discussion

10.30 — 11.00 Coffee Break

11.00 — 11.30  
Paper presentation: "Detecting Regulatory Compliance for Business Process Models through Semantic Annotations" (Guido Governatori, Joerg Hoffmann, Shazia Sadiq and Ingo Weber)

11.30 — 12.00  
Paper presentation: "Crosscutting Concern Documentation by Visual Query of Business Processes" (Chiara Di Francescomarino and Paolo Tonella)

12.00 — 12.30  
Paper presentation: "Real Support for Perspective-compliant Business Process Design" (Agnes Koschmider, Francois Habryn and Florian Gottschalk)

12.30 — 14.00 Lunch

14.00 — 14.30  
Paper presentation: "Elicitation of Requirements for a Business Process Model Repository" (Khurram Shahzad, Birger Andersson, Maria Bergholtz, Ananda Edirisuriya, Tharaka Ilayperuma, Prasad Jayaweera and Paul Johannesson)
14.30 — 15.00

Paper presentation: "Issues in Modeling Process Variants with Provop" (Alena Hallerbach, Thomas Bauer and Manfred Reichert)

15.00 — 15.30

Paper presentation: "On the Alignment of Business Models and Process Models" (Ananda Edirisuriya and Paul Johannesson)

15.30 — 16.00 Coffee Break

16.00 — 16.30

Paper presentation: "Dimensions of Business Processes Quality (QoBP)" (Mitra Heravizadeh, Jan Mendling and Michael Rosemann)

16.30 — 16.45 Closing (Michael Rosemann, Queensland University of Technology, Australia)

19.30 Welcome reception at Galleria Meravigli
4th International Workshop on Business Process Intelligence
BPI-08

Workshop Chairs
Dr. Malu Castellanos, Intelligent Enterprise Technologies Lab, Hewlett-Packard Laboratories
Dr. Ana Karla Alves de Medeiros, Information Systems Group, Technische Universiteit Eindhoven
Dr. Jan Mendling, BPM Cluster, Queensland University of Technology
Dr. Barbara Weber, Institut für Informatik, Universität Innsbruck

Technical program

8.00 — 9.00 Registration

9.00 — 10.30 Session 1 (Session Chair: Barbara Weber)
• Scott Buffett and Liqiang Geng. Bayesian Classification of Events for Task Labeling Using Workflow Models
• Minseok Song, Christian W. Günther and Wil van der Aalst. Trace Clustering in Process Mining
• Chen Li, Manfred Reichert and Andreas Wombacher. Mining Based on Learning from Process Change Logs

10.30 — 11.00 Coffee Break

11.30 — 12.00 Session 2 (Session Chair: Minseok Song)
• Marco Montali, Paola Mello, Federico Chesani, Fabrizio Riguzzi, Sergio Storari and Maurizio Sebastianis. Checking Compliance of Execution Traces to Business Rules
• Andreas Burger and Jürgen Moormann. Detecting Intrinsic Inefficiency on Process Level — Benchmarking of Transactions in Banking
• Scott Buffett and Bruce Hamilton. Abductive Workflow Mining (Short Paper)
• Zan Huang and Akhil Kumar. New Quality Metrics for Evaluating Process Models (Short Paper)

12.30 — 14.00 Lunch

14.00 — 17.30 Tutorial Process Mining (Prof.dr.ir. Wil van der Aalst)

19.30 Welcome reception at Galleria Meravigli
1st International Workshop on Business Process Management and Social Software
BPMS2-08

Workshop Chairs
Selmin Nurcan, University Paris 1 Panthéon Sorbonne, France
Rainer Schmidt, Aalen University, Germany

Technical Program

8.00 — 9.00 Registration

9.00 — 10.30 Session I
- Opening Introduction, Selmin Nurcan, Rainer Schmidt
- BPM and Social Software, Selmin Nurcan, Rainer Schmidt

10.30 — 11.00 Coffee Break

11.00 — 12.30 Session II
- Social Software for Modeling Business Processes, Agnes Koschmider, University of Karlsruhe, Minseok Song, and Hajo A. Reijers, Eindhoven University of Technology
- Automating Knowledge Transfer and Creation in Knowledge Intensive Business Processes, Michael Granitzer, Gisela Granitzer, Klaus Tochtermann, Stefanie Lindstaedt, Andreas Rath, and Wolfgang Groiss, Know-Center Graz, Graz University of Technology, Institut for Knowledge Management, m2n consulting GmbH, Linz
- Digital Identity and Reputation in the Context of a Bounded Social Ecosystem, Ben Jennings and Anthony Finkelstein, University College London

12.30 — 14.00 Lunch

14.00 — 15.30 Session III
- From a social wiki to a social workflow system a case study, Gustaf Neumann, Selim Erol, Vienna University of Economics and Business Administration
- Utilizing Firm-hosted Online Communities in Software Product Business: A Dimensional View, Sami Jantunen, Kari Smolander, Lappeenranta University of Technology, Sanna Malinen, Tytti Virtanen, Sari Kujala, Tampere University of Technology
- Workflow Enactment in a Social Software Environment, Davide Rossi and Fabio Vitali, Universita di Bologna
15.30 — 16.00 Coffee Break

16.00 — 17.30 Session IV

- Enterprise 2.0, Simone Happ, T-Systems MMS
- Research Agenda / Common Project / Further Steps

19.30 Welcome reception at Galleria Meravigli
1st International Workshop on Model-Driven Engineering for Business Process Management
MDE4BPM-08

Workshop Chairs
Cesare Pautasso, University of Lugano, Switzerland
Jana Koehler, IBM Zurich Research Lab, Switzerland

Technical Program

8.00 — 9.00 Registration

9.00 — 10.30 Session Business Driven Development

- 9.10-9.50
  Business to IT Transformations Revisited
  (Sebastian Stein, Stefan Kühne and Konstantin Ivanov)
- 9.50-10.30
  A Model-Driven Approach to Implementing Coordination Protocols in BPEL
  (Oliver Kopp, Branimir Wetzstein, Ralph Mietzner, Stefan Pottinger, Dimka Karastoyanova, and Frank Leymann).

10.30 — 11.00 Coffee Break

11.00 — 12.30 Session II Tool Demonstration

- 11.00-11.45
  Towards Transformations from BPMN to Heterogeneous Systems (Tobias Küster and Axel Heßler)
- 11.45-12.30
  Business Process Modelling with Continuous Validation (Stefan Kühne, Heiko Kern, Volker Gruhn and Ralf Laue)

12.30 — 14.00 Lunch

14.00 — 15.30 Session III Model Synchronization

- 14.00-14.40
  On the Formal Generation of Process Redesigns (Mariska Netjes, Hajo A. Reijers and Wil M.P. van der Aalst)
- 14.40-15.20
  Translating BPMN Models into UML Activities (Maria Agustina Cibran)

19.30 Welcome reception at the Galleria Meravigli
1st International Workshop on Process Management for Highly Dynamic and Pervasive Scenarios
PM4HDPS-08

Workshop Chairs
Massimiliano de Leoni, Dipartimento di Informatica e Sistemistica, Università di Roma La Sapienza
Schahram Dustdar, Distributed Systems Group, Vienna University of Technology
Arthur ter Hofstede, Faculty of Information Technology, Queensland University of Technology

Technical Program

8.00 — 9.00 Registration

9.00 — 9.15 Introduction

9.15 — 10.00

Practical Experiences of Emergency Management (Invited - Dirk Hagebölling)

10.00 — 10.30

Toward Process Models for Disaster Response (Dirk Fahland, Heiko Woith)

10.30 — 11.00 Coffee Break

11.00 — 11.30

Workflows in Dynamic Development Processes (Thomas Heer, Christoph Briem, René Woerzberger)

11.30 — 11.55

Domain-driven Process Adaptation in Emergency Scenarios (Invited - Marcello La Rosa, Jan Mendling)

11.55 — 12.25

Hypergraph-based Modeling of Ad-hoc Business Processes (Artem Polyvyanyy, Mathias Weske)

12.25 — 12.30 Closure

19.30 Welcome reception at the Galleria Meravigli
2nd International Workshop on Process-oriented information systems in Healthcare
ProHealth-08

Workshop Chairs
Richard Lenz, Department of Computer Science 6 (Data Management), Friedrich-Alexander-University Erlangen-Nuremberg, Germany
Mor Peleg, Department of Management Information Systems, University of Haifa, Israel
Manfred Reichert, Institute for Databases and Information Systems, University of Ulm, Germany

Technical Program

8.00 — 9.00 Registration

9.15 — 10.30 Session 1 Welcome and keynote

- 09.15 Welcome
- 09.30 Invited Talk: Silvana Quaglini Process mining in healthcare: a contribution to change the culture of blame

10.30 — 11.00 Coffee Break

11.00 — 12.30 Session 2: Process assessment and management

- 11.00 Samrend Saboor, Elske Ammenwerth: A concept for the assessment of electronic communication in integrated information systems.
- 12.00 Karen Marie Lyng, Thomas Hildebrandt, Raghava Rao Mukkamala: From Paper Based Clinical Practice Guidelines to Declarative Workflow Management.

12.30 — 14.00 Lunch

14.00 — 15.30 Session 3: Flexibility and Integration

- 14.00 María Adela Grando, David W. Glasspool, John Fox: Petri Nets as a formalism for comparing expressiveness of workflow-based Clinical Guideline Languages.
15.00

15.30 — 16.00 Coffee Break

16.00 — 17.45 Session 4: Cooperation in Healthcare

- 16.00
  Federico Cabitza, Marco P. Locatelli, Carla Simone: Promoting Process-Based Collaborative Awareness to Integrate Care Teams.
- 16.30
  Øystein Nytrø, Inger Dybdahl Sørby, Gry Seland, Ole A. Alsos, Arild Faxvaag: Session-Aware Clinical Information Systems.
- 17.00
- 17.20
  Final Discussion

19.30 Welcome reception at Galleria Meravigli
1st International Workshop on QoS of Self-Healing Web services
QSWS-08

Workshop Chairs
Liliana Ardissono, Dipartimento di Informatica, Università di Torino
Danilo Ardagna, Dipartimento di Elettronica e Informazione, Politecnico di Milano
Khalil Drira, LAAS-CNRS, University of Toulouse

Technical Program

8.00 — 9.00 Registration

14.00 Session I: Self-healing Web Services and Autonomic Service-Oriented Systems.

- 14.10
  Invited lecture.
- 14.45

15.30 — 16.00 coffee break

16.00 Session II: Technical Papers

- 16.00
- 16.15
  Gaston Tagni, Annette ten Teije and Frank van Harmelen. "Reasoning about Repairability of Workflows at Design Time."
- 16.35
- 17.05
  Liliana Ardissono, Stefano Bocconi, Luca Console, Roberto Furnari, Anna Goy, Giovanna Petrone, Claudia Picardi, Marino Segnan and Daniele Theseider Dupré. "Enhancing Web Service Composition by Means of Diagnosis."

17.30 Workshop closure

19.30 Welcome reception at the Galleria Meravigli
3rd International Workshop Semantics for Web services
semantics4ws-08

Workshop Chairs
Steven Battle, Hewlett-Packard Labs,
John Domingue, Knowledge Media Institute, The Open University,
Martin Hepp, E-Business and Web Science Research Group, School of Business Management and Organisation Science, University of the German Federal Armed Forces
Dumitru Roman, Semantic Technology Institute (STI Innsbruck), University of Innsbruck

Technical Program

8.00 —  9.00 Registration

9.00 — 12.30

Tutorial on Semantic Business Process Management

12.30 —  14.00 Lunch

14.00 —  15.30

- Semantically Annotated EPC within Semantic Business Process Management. Agata Filipowska, Monika Kaczmarek and Sebastian Stein. (Full paper)
- Service Discovery in Ubiquitous Environments: Approaches and Requirement for Context-Awareness. Mohamed Sellami, Samir Tata and Bruno Defude. (Short Paper)

16.00 —  17.30

- Ontology-based Data Mediation in BPEL (for Semantic Web Services). Joerg Nitzsche and Barry Norton. (Full paper)
- A Framework for Dependency based Automatic Service Composition. Abrehet Mohammed Omer and A. Schill. (Short Paper)
- Ontology-based Behavioural Reasoning for Business Processes. Barry Norton. (Full paper)

19.30 Welcome reception at the Galleria Meravigli
General Information

Registration Desk
Our helpful staff will be present at the registration desk in South Building at Politecnico di Milano, in piazza Leonardo da Vinci 32, during all conference events to offer any assistance that you may require.

Conference ID tags
You will be handed a conference ID when you arrive – please wear it and keep it visible at all times during the conference and all social events.

Internet Access

Desktop computers
Computers connected to the Internet are available in Room S.1.6 in the 1st floor of the South Building.

Wireless
Instructions for accessing the wireless network and your personal credentials are provided in the white envelope.

In Case of Emergency on Campus

Any emergency should be reported to the Politecnico main entrance, in front of the conference location.

Transport

Public Transport
Information about public transport in Milano can be found on the public transportation of Milan website (http://www.atm-mi.it).

Participants of the main conference will receive daily tickets for the three days of the conference. Tickets have to be stapled when first used, then they are valid for 24 hours. The daily urban ticket can be used for 24 hrs after it has been validated on the urban network, on the Milan runs of all the suburban lines of ATM, Trenitalia and Ferrovie Nord and on the rail loop.
Reaching the Politecnico di Milano, Leonardo Campus area

From Piola Subway Station to Leonardo

*On foot*
Take the left exit of the Piola station. Go straight along via Ovidio until it crosses via Spinoza. Turn left and go straight for 30 meters until you reach piazza Leonardo da Vinci. The Campus "Leonardo" is the main building in front of you.

From Centrale Railway Station to Leonardo

*Underground*
Line 2 (MM2 green line), direction: Cologno Nord-Gessate. Get off at Piola station (3rd stop).

*On foot*
Take the left exit of the Piola station. Go straight along via Ovidio until it crosses via Spinoza. Turn left and go straight for 30 meters until you reach piazza Leonardo da Vinci. The Campus "Leonardo" is the main building in front of you.

From Cadorna Railway Station to Leonardo

*Underground*
Line 2 (MM2 green line), direction: Cologno Nord-Gessate. Get off at Piola station (8th stop).

*On foot*
Take the left exit of the Piola station. Go straight along via Ovidio until it crosses via Spinoza. Turn left and go straight for 30 meters until you reach piazza Leonardo da Vinci. The Campus "Leonardo" is the main building in front of you.

From Linate Airport to Leonardo

*Bus*
Bus n. 73, direction: piazza San Babila. Get off at Corsica-Campania stop (8th stop).
Bus n. 93, direction: Loreto. Get off at Ponzio-Celoria stop (7th stop).

*On foot*
Go straight on along via Celoria until it crosses piazza Leonardo da Vinci. The Campus "Leonardo" is the main building on the right.

From Malpensa Airport to Leonardo

*Train*
Malpensa Express, direction: Milano Cadorna. Get off at Milano Cadorna station (terminus).

*Underground*
Line 2 (MM2 green line), direction: Cologno Nord-Gessate. Get off at Piola station (8th stop).

*On foot*
Take the left exit of the Piola station. Go straight along via Ovidio until it crosses via Spinoza. Turn left and go straight for 30 meters until you reach piazza Leonardo da Vinci. The Campus "Leonardo" is the main building in front of you.
ATM

The closest ATM is located in the North Buildings of the Politecnico Leonardo campus.

Tourist information

The city

Milan, the capital of Lombardy, has a population of 1.3 million people. It is the biggest industrial city of Italy with many different industrial sectors. It is a magnetic point for designers, artists, photographers and models. Milan has an ancient city centre with high and interesting buildings and palazzos, that is why so many people from all over the world want to see the city of glamour.

Climate

Italy's climate is predominantly Mediterranean: Alpine in the far north; hot and dry in the south. Winter in Milan is relatively mild but foggy, with temperatures ranging from zero to 8 degrees Celsius. Summer can be very humid with brief thunderstorms; temperatures range from 14 to 29 degrees. From March through April temperatures range from 6 to 18 degrees. From October through November they range from 6 to 17 degrees.

History

Milan's origin goes back to 400 B.C., when Gauls settled and defeated the Etruscans. In 222 B.C. the city was conquered by Romans and was annexed to the Roman Empire. After 313 A.D., the year of the Edict of Tolerance towards Christianity, many churches were built and the first bishop was appointed: Ambrogio was such an influential person that the church became the Ambrosian Church (7 December is a holiday to honour Sant'Ambrogio). In 1300 the Visconti family which are noblemen from Bergamo, Cremona, Piacenza, Brescia and Parma ruled and brought a period of glory and wealth to the city. The Duomo was built in 1386 and became the symbol of Milan.

The Sforza family assumed the Castle and the power of the Visconti family and finally Milan got peace after many years of war against Venice and Florence. Under the Sforza duchy the city began the development of sciences, art and literature. Ludovico il Moro (Ludovico Sforza) called Leonardo da Vinci and "il Bramante" to his court.

Art & Culture

Milan has been a rich and important city all the time, it always was a place for famous artists of the various eras and offered a particular assortment of churches, buildings and monuments. There has been a change of culture and art in the Renaissance with big a contribution in the period of the neoclassicism. Milan offers a big variety of buildings, monuments and museums. Most important church is the Cathedral which is the third largest church in the world. It is overall made of marble, with immense statues, arches, pillars, pinnacles. From the roof you can get a beautiful overview of the city. Santa Maria delle Grazie was built between 1466 and 1490 and modified by Bramante. In the Refectory there is one of the most famous paintings of Leonardo da Vinci: the “Last Supper.” Milan has many historic palazzos like the Palazzo Reale (Royal Palace) which is situated in the south side of Piazza Duomo. The Sforza Castle is one of the symbols of Milan together with the Madonnina and the Galleria Vittorio Emanuele II. All those sights together are just few reasons for a visit.
Social Events

Workshop and Welcome reception (September 1, 19.30)
Via G.Negri, 6.

The place is located between the Duomo and the Castello Sforzesco. To reach the restaurant the best way is to take the metro line 1 (red line) until Cordusio Metro Station (the one indicated on the map), and then have a walk till the Galleria.

Galleria Meravigli
Via Meravigli, 3 - Via G. Negri, 6
20123 Milano
Tel. +39 02.8055125
Demo session refreshment

On the side of the demo session a light refreshment will be available to enjoy your demos with a drink and snack in the Politecnico South Buildings yard.

Conference Dinner at Palazzo delle Stelline (3 September, 20.00-23.00)

Via Aristide De Togni 6/8, Milano at the corner with Corso Magenta.

The restaurant is located close to Palazzo Delle Stelline. To reach the restaurant the best way is to take the metro line 2 (the green one) or line 1 (red line) until Cadorna Metro station. Get out at Cadorna Metro Station and then take via Carducci. Walk along via Magenta until you cross Corso Magenta. Walk along Corso Magenta until you reach via Aristide De Togni. The restaurant is around the corner in via Aristide De Togni 6/8
Maps

All conference rooms are in the South Building (indicated by S as first letter). Rooms S.0.x are at the ground floor and S.1.X at the first floor.

Politecnico di Milano – Leonardo Campus. BPM is located at the building in dark color.
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