



BPM2017

**15th International Conference
on Business Process Management**

September 10-15, 2017

Barcelona, Spain



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

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ABOUT THE CONFERENCE BPM

BPM 2017 is the 15th conference in a series that provides the most prestigious forum for researchers and practitioners in the field of Business Process Management (BPM).

Over the past decade, the conference has built its reputation by showcasing leading-edge research of the highest quality together with talks, tutorials and discussions by the most renown thought leaders and innovators in the field. The BPM conference series embraces the diversity and richness of the BPM field and serves as a melting pot for experts from a mix of disciplines including Computer Science, Information Systems Management, Services Science and Technology Management.

BPM 2017, hosted by the [Universitat Politècnica de Catalunya](#), will take place in [Barcelona](#), the capital of Catalonia, a Mediterranean and cosmopolitan city with Roman remains, medieval quarters and the most beautiful examples of 20th century Modernism and avant-garde.

Previous BPM Conferences

BPM 2016 in Rio de Janeiro, Brazil

- PC Co-Chairs: Marcello La Rosa, Peter Loos, Oscar Pastor
- General Chair: Flávia Maria Santoro

BPM 2015 in Innsbruck, Austria

- PC Co-Chairs: Hamid Motahari, Jan Recker, Barbara Weber, Matthias Weidlich
- General Chair: Barbara Weber

BPM 2014 in Eindhoven, The Netherlands (relocated from Haifa, Israel)

- PC Co-Chairs: Shazia Sadiq, Pnina Soffer, Hagen Völzer
- General Co-Chairs: Avigdor Gal, Mor Peleg

BPM 2013 in Beijing, China

- PC Co-Chairs: Florian Daniel, Jianmin Wang, Barbara Weber
- General Chair: Jianmin Wang

BPM 2012 in Tallinn, Estonia

- PC Co-Chairs: Alistair Barros, Avigdor Gal, Ekkart Kindler
- General Chair: Marlon Dumas

BPM 2011 in Clermont-Ferrand, France

- PC Co-Chairs: Stefanie Rinderle-Ma, Farouk Toumani, Karsten Wolf
- General Chairs: Farouk Toumani, Mohand-Said Hacid

BPM 2010 in Hoboken (NJ), USA PC

- Co-Chairs: Richard Hull, Jan Mendling, Stefan Tai
- General Chair: Michael zur Mühlen

BPM 2009 in Ulm, Germany

- PC Co-Chairs: Umeshwar Dayal, Johann Eder, Hajo Reijers
- General Chairs: Peter Dadam, Manfred Reichert

BPM 2008 in Milan, Italy

- PC Co-Chairs: Marlon Dumas, Manfred Reichert, Ming-Chien Shan
- General Chair: Barbara Pernici

BPM 2007 in Brisbane, Australia

- PC Co-Chairs: Gustavo Alonso, Peter Dadam, Michael Rosemann
- General Chairs: Marlon Dumas, Michael Rosemann

BPM 2006 in Vienna, Austria

- PC Co-Chairs: Schahram Dustdar, José Luiz Fiadeiro, Amit P. Sheth
- General Chair: Schahram Dustdar

BPM 2005 in Nancy, France

- PC Co-Chairs: Wil M. P. van der Aalst, Boualem Benatallah, Fabio Casati
- General Chair: Claude Godart

BPM 2004 in Potsdam, Germany

- PC Co-Chairs: Jörg Desel, Barbara Pernici, Mathias Weske
- General Chair: Mathias Weske

BPM 2003 in Eindhoven, The Netherlands

- PC Co-Chairs: Wil M. P. van der Aalst, Arthur H. M. ter Hofstede, Mathias Weske
- General Chair: Wil M.P. van der Aalst

MESSAGE FROM THE GENERAL CHAIR



Welcome to the 15th International Conference on Business Process Management (BPM 2017) in Barcelona!

It is a great pleasure to welcome the BPM community to Spain for the first time. I believe this event brings a unique opportunity in both directions: on the one hand, it supports the long-lasting tradition of BPM in Spain. On the other hand, it facilitates Spanish organizations to reach the BPM community around the world. Learn, exchange, collaborate, think,... these should be the leading verbs in the following 5 days!

I would like to express my gratitude to the BPM Steering Committee for selecting Barcelona as the host city of BPM 2017, and their continuous support in the last year. The Universitat Politècnica de Catalunya and the Computer Science Department have supported this event from minute one, facilitating many of the organization and logistic issues that have appeared till today.

The organization of an event like BPM encompasses the effort of many individuals. These efforts are not always of the same strength, but are equally important in order to guarantee a successful conference. The next paragraphs are devoted to acknowledge these individuals.

First, I would like to start thanking all the people involved in tasks for the local organization: Rafaela Bortolini, Eva Cebolla, Robert Clarisó, Bernat Coma, Montse Estañol, Lúdia López, Lucas Machado, Alberto Moreno, Lucía Méndez de Ortiz, Nikos Mylonakis, Xavier Oriol, J. A. Pastor, David Sanchez, Félix Sánchez, Giorgio Stampa, Farbod Taymouri, Ernest Teniente, Alex Vidal and Alexandra Yamaui. Is their support what really makes the difference!

Second, I am indebted to Gregor Engels and Akhil Kumar, which together with me served as program chairs of the conference. Their complementing perspectives and dedication have been crucial to reach a great technical program. The work of Alexander Teetz as proceedings editor facilitated a swift interaction with Springer.

The work of Andrea Burattin and Jorge Munoz-Gama as web and social chairs was amazing, making the web of the event to be always up-to-date, and using the social networks to announce the latest news of the conference. Likewise, the work on publishing the conference done by Jordi Cabot, Marco Montali, and Marcos Sepúlveda as publicity chairs was crucial to promote the event and spread the different calls on many communities.

The search for sponsors is not always an easy task; however, Carlos Fernandez-Llatas, Pedro Álvarez and Rubén Mondéjar did their best to get the current collection of organizations that kindly sponsors this conference. Well done!

Also, I would like to mention the professional and devoted work of the chairs of the different tracks that compound the event: Ernest Teniente and Matthias Weidlich (Workshop Chairs), Joaquin Ezpeleta, Dirk Fahland and Barbara Weber (Tutorial and Panel Chairs), Marco Brambilla, Thomas Hildebrandt, Victor Muntés and Darius Silingas (Industry Chairs), Robert Clarisó and Henrik Leopold (Demo Chairs), Antonio Ruiz Cortés and Mathias Weske (Doctoral Consortium Chairs) and Manuel Lama, Alberto Manuel and Antonio Valle (Co-Located Events Chairs). The high quality of the event is due to their dedication.

I would also like to extend my appreciation to all workshop organizers, reviewers, authors and speakers without whom it would not have been possible to shape such an outstanding technical program.

The sponsors of this event are: Signavio (Platinum), Celonis (Gold), IBM (Gold), Diputació de Tarragona (Silver), MyInvenio (Bronze), DCR (Bronze), Bizagi (Bronze), CA Technologies (Bronze), MySphera (Demo) and Springer. Without their support the excellence and success of BPM 2017 would not have been possible.

Finally, I would like to thank all of you coming from the five continents for making the trip to Barcelona. In Barcelona, you will find all you are looking for: a cosmopolitan city that leads the digital transformation in Spain, a cultural metropolis with astonishing museums and a unique gastronomy and many more. I strongly recommend to take a walk, either near the sea, or up in the mountain, or in any of the nice neighbourhoods that form the city. Enjoy the conference, and enjoy Barcelona!

Josep Carmona
General Chair, BPM 2017

SITE PLAN CONFERENCE VENUE



CONFERENCE VENUE

Universitat Politècnica de Catalunya

UPC Nord Campus (c/ Jordi Girona, 1-3, 08034 Barcelona)

Nord Campus can be easily reached by Metro (L3- "Palau Reial" / L9S - "Zona Universitària"), by Tram (T1/T2/T3 – "Palau Reial"), or by Bus.



Rooms

Vertex building is the main location of the conference, and it hosts almost all the activities (except lunches in B4 building, demo sessions in C3 building).

Auditorium (Vertex Building)

Conference keynotes, regular sessions and panels take place in the Vertex Auditorium with capacity for 477 people. The hall together with the terrace and gardens host the exhibition (tool vendors) and coffee breaks.



Sala d'Actes (Vertex Building)

Industry Track sessions and tutorials are planned to take place in Vertex Sala d'Actes with capacity for 160 people.



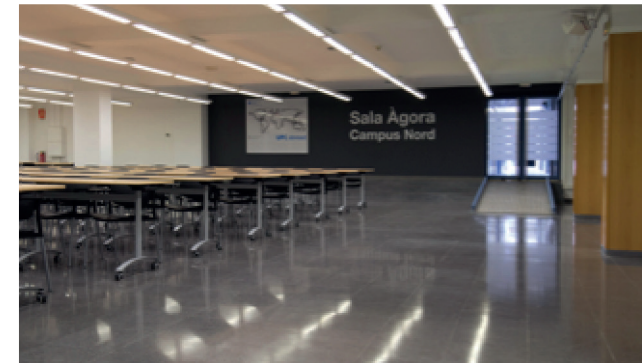
Meeting Rooms (Vertex Building)

Vertex building has different Meeting Rooms with a capacity from 40 to 100 people that host Doctoral Consortium on Sunday, the Workshops, the BPM Forum sessions and some tutorials.



Sala Agora (C3 Building – Ground Floor)

Sala Agora is located in C3 building (not Vertex) and can be accessed through telecommunications square. Agora hosts the demo session.



Lunch

Unity Restaurant (B4 Building – First Floor)

The lunches are served in the Unity Restaurant (First Floor) in the B4 Building.



GENERAL INFORMATION

Registration Desk

Our helpful staff is always available at the registration desk in the Hall (Vertex Building). During the whole conference, please do not hesitate to ask us, if you need assistance.

Conference Badge

A conference badge is handed over to you as soon as you have registered at the registration desk (see information above). Please keep the badge visible all the time during the conference, workshops, and social events.

Internet Connection



Network: XSF-UPC
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Password: 2017Investigacio



Available EDUROAM
Network

Conference App: Whova



Updated programme available at [Whova Event App](#).

Download it from Google Play (Android) or Apple Store (iOS).

Twitter



You are encouraged to send tweets using the hashtag **#bpm2017**. Via [@BPMConf](#) practical information and status updates are shared, and questions from the public are answered.



PROGRAM AT A GLANCE

Pre-conference Events		Conference Events
Sunday, 10 Sep	Monday, 11 Sep	Tuesday, 12 Sep
		Keynote: <i>Intelligent continuous improvement, when BPM meets AI</i>
<ul style="list-style-type: none"> • Doctoral Consortium 	Workshops	<ul style="list-style-type: none"> • Main conference • Industrial track • Tutorial: <i>Integrated Modeling and Verication of Processes and Data</i>
Lunch	Lunch	Lunch
<ul style="list-style-type: none"> • Doctoral Consortium • BPI Workshop 	Workshops	<ul style="list-style-type: none"> • Main conference • Industrial track • Forum
	Reception	Visit Sagrada Familia

- Legend:
- pre-conference events;
 - conference events;
 - post-conference events;
 - social events.

		Post-conference
Wednesday, 13 Sep	Thursday, 14 Sep	Friday, 15 Sep
Keynote: <i>BPM: Reflections on a Broad Discipline</i>	Keynote: <i>A Leaders Guide to Understanding New Business Models in the Digital Economy</i>	
<ul style="list-style-type: none"> • Main conference • Tutorial: <i>Design theories in business process management research</i> 	<ul style="list-style-type: none"> • Main conference • Forum • Panel: <i>AI, Machine Learning, Blockchain – will machines eat the human factor in BPM?</i> 	BPM Conference España
Lunch	Lunch	Lunch
<ul style="list-style-type: none"> • Main conference • Forum • Demos 	<ul style="list-style-type: none"> • Main conference • Tutorial: <i>Conformance Checking: What does your process do when you are not watching?</i> • Tutorial: <i>Incremental and interactive process model repair based on behavioral alignments</i> 	BPM Conference España
<ul style="list-style-type: none"> • Castells • Conference dinner 	Visit Sagrada Familia	

KEYNOTES

Alan W. Brown

Business School at University of Surrey

“A Leaders Guide to Understanding New Business Models in the Digital Economy”



Abstract

Many organizations have been preoccupied in recent years with their repeated efforts to upgrade to digital technologies, digital media, and digital delivery channels. However, digital transformation has also opened the opportunity for organizations to question major assumptions about their business model – the users being served, the experiences offered to them, and the most efficient ways to deliver those experiences in a co-ordinated, consistent and cost-effective way. Consequently, real world thinking and experiences in business model innovation have changed significantly over the past few years. How can business model innovation keep pace with changing business needs? This session explores business model innovation in digital transformation and presents a few simple frameworks and models that can be used to help explain core concepts of business model innovation, and techniques that help accelerate business model experimentation.

Bio

Alan W. Brown is Professor of Entrepreneurship and Innovation at the University of Surrey's Business School. Alan's research is focused on the relationship between technology innovation and business innovation in today's rapidly-evolving digital economy. He has over 25 years of experience in commercial high tech companies leading R&D teams, building leading-edge solutions, and driving innovation in software product delivery. He is the founder and director of the Surrey 'Centre for the Digital Economy' (CoDE). Alan has a PhD in Computer Science, and has published numerous books and papers on software engineering, systems design, and business transformation. His most recent co-authored book is "Digitizing Government: Understanding and implementing new digital business models".

KEYNOTES

Miguel Valdés

Bonitasoft CEO and co-founder



“Intelligent continuous improvement, when BPM meets AI”

Abstract

Artificial Intelligence (AI) technologies are evolving faster than ever thanks to the maturity of cloud computing, BigData and the accessibility of predictive and machine learning algorithms and frameworks. But, is BPM software ready to embrace AI?

Through continued modernisation BPM platforms goes beyond traditional process automation and optimisation use cases to play a key role in digital transformation in organisations of all sizes. Modern BPM applications requirements include advanced end user interfaces (UIs), access to big volumes of business data and real time updates of those processes, UIs and data. AI will be the next major wave of innovation in BPM.

In this session we will discuss the challenges and opportunities involved in the shift towards the use of AI technologies in BPM. We will particularly cover uses cases in which AI enables intelligent continuous improvement of business processes and BPM applications. We will also discuss about pros and cons of different AI technologies when it relates to BPM.

Bio

Miguel leads Bonitasoft mission: to democratize Business Process Management (BPM), bringing powerful and affordable BPM to organizations and projects of all sizes. Bonitasoft builds a BPM-based application platform to create customized business applications without the cost and rigidity of long, unpredictable custom development cycles. As the world's fastest-growing BPM provider, Bonitasoft has thousands of customers and an open source community of more than 120,000 members. Prior to Bonitasoft, Miguel led R&D, pre-sales and support for the BPM division of Bull Information Systems, a major European systems provider. Miguel is a recognized thought-leader in business process management and passionate about open source community building.

KEYNOTES

Mathias Weske

Hasso-Plattner-Institut at the University of Potsdam

“Reflections on a Broad Discipline”



Abstract

BPM is a broad discipline. Topics addressed in business process management range from formal methods in computer science to behavioural science methods in management. These distant points in the spectrum are connected by information systems engineering methods. Computer science, information systems engineering, and management share business processes as a common interest, as a joint research area. There are few disciplines that share this breadth. Under a joint BPM umbrella, not only different research topics are addressed, but also different research methods and evaluation criteria are employed. In the first part of this talk, the breadth of the BPM discipline is illustrated by highlighting research results from its sub-fields and discussing their respective research objectives. In the second part, the implications of these observations on the BPM conference are discussed. The goal of our conference series has always been to provide a forum for all aspects of BPM research. Despite this claim the centre of gravity has been initially in computer science and, more recently, in information systems engineering. To further develop the conference and to match in the conference structure the breadth of the BPM discipline, the Steering Committee proposes a novel structure of BPM conferences. By this structure we hope to broaden the BPM community and, ultimately, to be a forum for all aspects of the broad business process management discipline.

Bio

Professor Dr. Mathias Weske is chair of the business process technology research group at Hasso Plattner Institute of IT Systems Engineering at the University of Potsdam, Germany. The research group aims at addressing real-world problems in business process management with formal approaches and engineering useful prototypes. His research focuses on the engineering of process oriented information systems, decision management, and event handling. In addition to running the BPM Academic Initiative

bpmi.org, the BPT research group has a track record in engineered prototypes with a significant impact on research and practice, including projects like Oryx and jBPT. In 2009 he co-founded Berlin-based software company Signavio. Dr. Weske is author of the first textbook on business process management and he held the first massive open online course on the topic in 2013. With Matthias Kunze, he published a textbook on behavioural models. He is on the Editorial Board of Springer's Distributed and Parallel Databases journal and a founding member of the steering committee of the BPM conference series.

TUTORIALS

Tutorial 1: Integrated Modeling and Verification of Processes and Data

Tuesday, 12 September, 11:00- 12:30
Meeting Room VS217

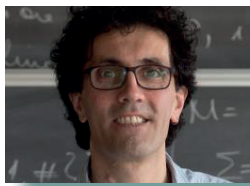
Abstract

The need of combining static (i.e., data-related) and dynamic (i.e., process-related) aspects has been increasingly recognized as a key requirement towards the design, verification, and understanding of business processes. In recent years, this has created a strong impact on both the data management and BPM communities, which traditionally have focused on the two aspects separately.

In this tutorial we report on recent developments on the integrated modeling and verification of systems in which processes and data are treated as equally important. The tutorial is structured in three parts.

The first part focuses on modeling, and considers both data-centric approaches, and traditional process-centric approaches enriched with data. The second part addresses the problem of verification, which is much harder than in a pure control-flow setting, and needs specific forms of control of the interplay of data and process to guarantee decidability. In the last part, we overview methodological guidelines that realize these requested forms of control.

Speakers



Diego Calvanese is a full professor at the Research Centre for Knowledge and Data (KRDB), Faculty of Computer Science, Free University of Bozen-Bolzano. His research interests include formalisms for knowledge representation and reasoning, ontology based data access and integration, description logics, Semantic Web, graph data management, data-aware process verification, and service modeling and synthesis. He has been nominated Fellow of the European Association for Artificial Intelligence (EurAI, formerly ECCAI) in 2015.



Marco Montali is senior researcher at the Research Centre for Knowledge and Data (KRDB), Faculty of Computer Science, Free University of Bozen-Bolzano. He devises techniques grounded in artificial intelligence, formal methods, knowledge representation and reasoning, for the intelligent management of dynamic systems operating over data, with particular emphasis on business processes and multiagent systems. In 2015, he received an Italian award for his seminal research on the cross-fertilization between BPM and artificial intelligence. He is member of the IEEE Task Force on Process Mining.

Tutorial: Design theories in business process management research

Wednesday 13th, 11h -12:30h
Sala d'Actes, Vertex

Abstract

In recent years, the ability to analyze large amounts of data has called into doubt the need for scientific theories. A simple response to this is that predictive theories based on correlations in big data, are scientific theories too. A more substantial response is that, even though correlation is sufficient for prediction, it is not sufficient for the explanation of effects in terms of causes, mechanisms or reasons. Whenever we want to understand the phenomena we study, we should look for causes, mechanisms, or reasons, which means that we should build scientific theories. In this tutorial I provide a bird's eye view on how to produce a clear and defensible theoretical contribution. I focus on design theories and start with a brief introduction of the role of theories in the design cycle. I will then review the structure of design theories, and identify the different kinds of steps that researchers follow to reason from data to theories: descriptive, statistical, abductive and analogic inference. In conclusion I will explain how these inferences must be related to research goals and research setup. The tutorial will be illustrated by examples from information systems, software engineering and other engineering disciplines.

Speaker



Roel Wieringa occupies the chair of Information Systems at the Department of Computer Science at the University of Twente, The Netherlands. His research interests include requirements engineering, enterprise architecture, and design science research methodology for information systems and software engineering. He has written three books, *Requirements Engineering: Frameworks for Understanding* (Wiley, 1996), *Design Methods for Reactive Systems: Yourdon, Statemate and the UML* (Morgan Kaufmann, 2003), and *Design Science Methodology for Information Systems and Software Engineering* (Springer, 2014).

Tutorial: Conformance Checking: What does your process do when you are not watching?

Thursday 14th, 14h - 15:30h
Sala d'Actes, Vertex

Abstract

Today's organizations are challenged to make their processes more efficient and effective; costs and response times need to be reduced in all of today's industries. Process models are used to guide people, discuss process alternatives, and to automate parts of critical business processes. Often these process models are not enforced and people can deviate from them. Such flexibility is often desirable, but still it is good to analyze differences between modeled and observed behavior. This illustrates the relevance of conformance checking. Conformance checking techniques take an event log and a process model and compare the observed traces with the traces possible according to the model.

This tutorial will illustrate the importance of conformance checking, in general, and the advantages of alignment-based conformance checking with respect to other techniques. Alignments are powerful artifacts to detect nonconformity between the observed behavior as recorded in the event log and the prescribed behavior as represented by process models.

Thanks to alignments, it is not only possible to detect which observed executions are not compliant but also process analysts can exactly pinpoint which deviations occurred and where in the execution.

Speakers



Massimiliano de Leoni: He is an Assistant Professor of Computer Science at Eindhoven University of Technology, the Netherlands. He obtained a Ph.D. in Computer Science and Engineering at SAPIENZA - University of Rome, Italy, in the field of "Adaptation in Business Process Management". He was a guest research fellow at Queensland University of Technology, SAPIENZA University of Rome, University of Naples and Vienna University of Economics and Business.

He is constantly publishing papers for the major conference venues in Business Process Management and Information Systems, such as the CAiSE and BPM conferences, and for high-reputation journals in these fields, such as Decision Support Systems, Information Systems and Expert Systems with Application. He is member of the IEEE Task Force on Process Mining. His research interests are in the area of Process-aware Information Systems, Data Science and Business Process Management, predominantly focusing on multi-perspective process mining, process-aware decision support systems and process mining in the large.



Boudewijn van Dongen: He is an associate professor at the Computer Science department at Eindhoven University of Technology, Eindhoven, The Netherlands. He received his Ph.D. at the Industrial Engineering department of the same university in 2007. Currently, he is a member of the Architecture of Information Systems group which investigates methods, techniques and tools for the design

and analysis of process-aware information systems. His research focus is on Process Mining and specifically on conformance checking and since 2003, he has been a key player in the development of the process mining tool ProM. Furthermore, he is a member of the IEEE Task Force on Process Mining and he published extensively in the process mining area, both in international conferences and journals (e.g., DKE, EIS, IS, CAiSE, ATPN, BPM, ER, EDOC). He served in several program committees, among others for IEEE EDOC 2007, 2008, 2009, 2010, BPI 2007 - 2016. Since 2011 he organizes the yearly BPI Challenge, where real-life data is published for researchers and practitioners to show their capabilities in the process mining area.



Jorge Munoz-Gama: Born in Barcelona, he is an Assistant Professor at the Pontificia Universidad Católica de Chile (UC). Author of the book Conformance Checking and Diagnosis in Process Mining (Springer 2016), he received his Ph.D. on Computer Science from the Universitat Politècnica de Catalunya, and his thesis was awarded IEEE Best Process Mining Dissertation Award 2015. He is member of the IEEE

Task Force on Process Mining. His research interests include Process-Oriented Data Science and Process Mining specially applied to Education and Healthcare.

Tutorial: Incremental and interactive process model repair based on behavioral alignments

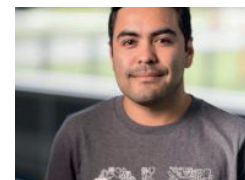
Thursday 14th, 16h - 17h
Sala d'Actes, Vertex

Abstract

Often the observed behavior of a business process differs from the normative behavior captured in its corresponding model. Existing differences can arise from workarounds devised by the workers or regulatory changes not transferred to the model. Process mining and, in particular, conformance checking aims to analyze the observed behavior captured in an event log and to find the differences to the model. Existing conformance checking techniques are the foundation for process model repair -- the differences detected by a conformance checker are reconciled in the model, i.e. the repaired model better fits the log.

Through this tutorial, we look into existing process model repair techniques. We focus solely on control-flow information, and broadly categorize the repair techniques into two groups: automatic, and interactive and incremental. While automatic approaches do not require any input from the user, interactive and incremental approaches are used as support tools for the users, who decide what repairs to apply. This tutorial discusses the strengths and weaknesses of both approaches. Furthermore, this tutorial encompasses a brief overview on the conformance checking techniques used as the foundations for the presented process model repair techniques. In particular, it focuses on two conformance checkers, one based on trace alignments and one based on behavioral alignments. However, only a short introduction about the trace alignment-based conformance checker is presented in this tutorial since the tutorial "Conformance Checking: What does your process do when you are not watching?" is fully devoted to this topic.

Speaker



Abel Armas Cervantes is a postdoctoral research fellow within the BPM research group at the Queensland University of Technology, Brisbane, Australia. He obtained his PhD in Computer Science and MSc in software engineering within the Software Engineering group at the University of Tartu, Tartu, Estonia. His research interests include models for concurrent systems, analysis techniques for business process models, process mining, and social network analysis.

PANEL

AI, Machine Learning, Blockchain – will machines eat the human factor in BPM?

Thursday 14th, 10:40h - 12:10h
Auditori, Vertex

A central objective of business processes and information systems – so far – is supporting people in coordinating their work and handling and tracing information. The systems hold and provide information to workers, schedule, coordinate, and orchestrate specific pieces of work, support decisions in how to proceed by providing overview and details to human decisions, or automating simple decisions in the presence of complete information.

Against this backdrop, the growing maturity in machine learning and block chains has been enabling technologies for new applications that have not been possible before

Blockchain introduces a machine-readable and verifiable record of transactions, giving machines a trustworthy, verified data source for all involved parties, thereby enabling verification and decisions by algorithms not possible earlier because the input data necessary for the decision was not available at the required level of trust and completeness. AI and Machine Learning techniques made significant improvements in classification and prediction allowing to replace human processing by machines at faster speed and higher reliability. Well-trained deep neural networks can incorporate numerous nuanced factors into a decision that matches or exceeds the capabilities of skilled workers.

As many of these techniques are now reaching their “hype cycle peak”, awareness in industry is growing rapidly, giving rise to the question how they will impact balance of human and technical factors in business process and information systems.

During this panel, we will look at this question from different angles, discuss the potentials new technologies can have on a variety of use cases, which factors limit their adoption in practice, and which methodological challenges arise in a domain where techniques and trends once established remain standard for decades.

Panelists

- Jan Mendling (chair)
- Ingo Weber, Data61, CSIRO, Australia
- Gero Decker, Signavio, Germany
- Hajo Reijers, VU Amsterdam, NL
- Rick Hull, IBM, USA

DETAILED PROGRAM

Sunday, September 10, 2017

08:00-09:00	Registration	Vertex Building
09:00-10:30	Doctoral Consortium	VS208
09:00-09:45	Process Performance Improvement in Material Handling Systems	
	Hilda Fabiola Bernard	
09:45-10:30	Improving the Performance Management in Business Processes	
	Bedilia Estrada-Torres	
10:30-11:00	Coffee Break	Vertex Garden
11:00-12:30	Doctoral Consortium	VS208
11:00-11:45	A Unified Framework for Modeling Processes and Data	
	Francesca Zerbato	
11:45-12:30	Real-time business process model tailoring: the effects of personality and reading strategy on process model understandability	
	Sven Vermeulen	
12:30-14:00	Lunch	Unity Restaurant
14:00-15:30	BPI	VS217
14:00-14:45	A Framework for Online Conformance Checking	
	Andrea Burattin, Josep Carmona	
14:45-15:30	Recurrent Process Mining with Live Event Data	
	Alifah Syamsiyah, Boudewijn F. van Dongen, Wil M.P. van der Aalst	

14:00-15:30	Doctoral Consortium	VS208
14:00-14:30	Inconsistency Measurement in Business Process Modeling	
	Carl Corea	
14:30-15:00	Modeling and verifying data-aware processes	
	Andrey Rivkin	
15:00-15:30	Process Variants Discovery	
	Fabian Rojas Blum	
15:30-16:00	Coffe break	Vertex Garden
16:00-17:30	BPI	VS217
16:00-16:45	Reducing Event Variability in Logs by Clustering of Word Embeddings	
	David Sanchez-Charles, Josep Carmona, Victor Muntés-Mulero, Marc Solé	
16:45-17:30	Automatic Root Cause Identification Using Most Probable Alignments	
	Marie Koorneef, Andreas Solti, Henrik Leopold, Hajo A. Reijers	

* Parallel session hours indicated in green colour

Monday, September 11, 2017

08:00 - 09:00	Registration	Vertex Building
09:00 - 10:30	BPI	VS217
09:00 - 9:45	Improving Process Discovery Results by Filtering Outliers using Conditional Behavioural Probabilities Mohammadreza Fani Sani, Sebastiaan J. van Zelst, Wil M.P. van der Aalst	
09:45 - 10:30	Can We Find Better Process Models? Process Model Improvement via Motif-based Graph Adaptation Alexander Seeliger, Michael Stein, Max Mühlhäuser	
09:00 - 10:30	BPMS2	VS213
09:00 - 9:15	Welcome Introduction Rainer Schmidt	
09:15 - 9:30	Impact of Social Software on Modelling Cost Michael Möhring	
09:30 - 10:00	Lightweight Process Support with Spreadsheet-Driven Processes: A Case Study in the Finance Domain Michael Stach, Rüdiger Pryss, Maximilian Schnitzlein, Tim Mohring, Martin Jurisch, Manfred Reichert	
10:00 - 10:30	Using CMMN to model Social Processes Ioannis Routis, Mara Nikolaidou, Dimosthenis Anagnostopoulos	
09:00 - 10:30	REBPM	VS215
09:00 - 9:15	Introduction to the Workshop Banu Aysolmaz	
09:15 - 9:30	BPM - RE – agility Banu Aysolmaz	
09:30 - 10:00	An organizational routines perspective on process requirements Sabrina Blaukopf, Jan Mendling	

10:00 - 10:30	Variability Patterns for Analyzing Flexible Processes Kathrin Kirchner, Ralf Laue	
09:00 - 10:30	Cross-cutting Aspects of BPM (BPMGOV & ReMa)	VS214
09:00 - 9:30	Towards a Taxonomy of Human Resource Allocation Criteria Michael Arias, Jorge Munoz-Gama, Marcos Sepúlveda	
09:30 - 10:00	E-Government Services: Comparing Real and Expected User Behavior Anna Kalenkova, A.A. Ageev, I.A. Lomazova, W.M.P. van der Aalst	
10:00 - 10:30	Establishing transparent interorganizational relationships through shared goals for anti-corruption in Brazil Bruna Dirr, Claudia Cappelli	
09:00 - 10:30	BPAI	VS208
	What Automated Planning can do for Business Process Management Andrea Marrella	
09:00 - 10:30	BP-Meet-IoT	VS206a
	BPM and IoT: a Dream Team? Barbara Weber	
09:00 - 10:30	QD-PA	VS210
09:05 - 9:25	Redo Log Process Mining in Real Life: Data Challenges & Opportunities Eduardo Gonzalez Lopez de Murillas, G.E. Hoogendoorn, H.A. Reijers	
09:30 - 9:50	From Relational Database to Event Log: Decisions with Quality Impact Mieke Jans, Pnina Soffer	
09:55 - 10:15	Design-time analysis of data inaccuracy awareness at runtime Yotam Evron, Pnina Soffer, Anna Zamansky	

10:30 - 11:00	Coffee Break	Vertex Garden
11:00 - 12:30	BPI	VS217
	PD Contest / BPI Challenge	
11:00 - 12:30	BPMS2	VS213
11:00 - 11:30	Speech Acts in Actual Processes: Evaluation of Interfaces and Triggers in ITIL	
	Johannes Tenschert, Jana-Rebecca Rehse, Peter Fettke, Richard Lenz	
11:30 - 12:00	SLA-based Management of Human-based Services in Business Processes for Socio-Technical Systems	
	Mirela Riveni, Mirela Riveni, Tien-Dung Nguyen, Schahram Dustdar	
12:00 - 12:30	Towards a Solution Space for BPM Issues based on Debiasing Techniques	
	Maryam Razavian, Irene Vanderfeesten, Oktay Turetken	
11:00 - 12:30	PQ/IWPE/Taproviz	VS218
11:00 - 11:30	Visual Analytics for Soundness Verification of Process Models	
	Humberto S. Garcia Caballero, Michel A. Westenberg, Henricus M. W. Verbeek, Wil M.P. van der Aalst	
11:30 - 12:00	AO-BPM 2.0: Aspect Oriented Business Process Modeling	
	Luiz Paulo Carvalho, Claudia Cappelli, Flávia Maria Santoro	
12:00 - 12:30	A Visualization of Human Physical Risks in Manufacturing Processes using BPMN	
	Melanie Polderdijk, Irene Vanderfeesten, Jonnro Erasmus, Kostas Traganos, Tim Bosch, Gu van Rhijn, Dirk Fahland	
11:00 - 12:30	REBPM	VS215
11:00 - 11:30	A Pattern-Based Question Checklist for Deriving Requirements from BPMN Models	
	Bernhard Turban, Johannes Schmitz-Lenders	
11:30 - 12:00	Minimal Effort Requirements Engineering for Robotic Process Automation with Test Driven Development and Screen Recording	
	Christoph Cewe, Daniel Koch, Robert Mertens	

12:00 - 12:30	Optimization of the Inception Deck technique for eliciting requirements in SCRUM through business process models	
	Manuel Pastrana, Hugo Ordonez, Armando Ordonez, Lucineia Thom, Luis Merchan	
11:00 - 12:30	Cross-cutting Aspects of BPM	VS214
	(SABPM & Discussion)	
11:00 - 11:30	Towards Guidelines of Modeling for ecology-aware Process Design	
	Patrick Lübbecke, Peter Loos	
11:30 - 11:50	Sustainability Performance Measurement: A Possible Classification of Models and Indicators	
	Dries Couckuyt, Amy Van Looy, Manu De Backer	
11:00 - 12:30	BPAI	VS208
11:00 - 11:30	Structural Feature Selection for Event Logs	
	Markku Hinkka, Teemu Lehto, Keijo Heljanko, Alexander Jung	
11:30 - 12:00	Towards Intelligent Process Support for Customer Service Desks: Extracting Core Problems Descriptions from Noisy and Multi-Lingual Texts	
	Jana Koehler, Etienne Fux, Florian A. Herzog, Dario Lötscher, Kai Waelti, Roland Imoberdorf, Dirk Budke	
12:00 - 12:30	Towards an Entropy-based Analysis of Log Variability	
	Christoffer Olling Back, Søren Debois, Tijs Slaats	
11:00 - 12:30	BP-Meet-IoT	VS206a
11:00 - 11:30	Technology-Enhanced Process Elicitation of Worker Activities in Manufacturing	
	Sönke Knoch, Shreeraman Ponpathirkootam, Peter Fettke, Peter Loos	
11:30 - 12:00	Discovering process models of activities of daily living from sensors	
	Marco Cameranesi, Claudia Diamantini, Domenico Potena	
12:00 - 12:30	An habit is a process: a BPM-based approach for smart spaces	
	Francesco Leotta, Massimo Mecella, Daniele Sora	

12:30 - 14:00	Lunch Unity	Unity Restaurant
14:00 - 15:30	BPI	VS217
14:00 - 14:45	Dropout prediction in MOOCs: a comparison between process and sequence mining Galina Deeva, Johannes De Smedt, Pieter De Koninck, Jochen De Weerd	
4:45 - 15:30	Process Mining and the Black Swan: An Empirical Analysis of the Influence of Unobserved Behavior on the Quality of Mined Process Models Jana-Rebecca Rehse, Jana-Rebecca Rehse, Peter Fettke, Peter Loos	
14:00 - 15:30	BPMS2	VS213
14:00 - 14:30	Using Smart Edge Devices to Integrate Consumers into Digitized Processes: the Case of Amazon Dash-Button Michael Möhring, Barbara Keller, Rainer Schmidt, Lara Pietzsch, Leila Karich, Carolin Berhalter, Karsten Kilian	
14:30 - 15:00	A Framework for Improving User Engagement in Social BPM Vanisha Gokaldas, Mohammad Ehson Rangih	
15:00 - 15:30	A Systematic Literature Review of the Use of Social Media for Business Process Management Jana Prodanova, Amy Van Looy	
14:00 - 15:30	PQ/IWPE/Taproviz	VS218
14:00 - 14:30	An Architecture for Querying Business Process Business Process Instances and Business Data Models Maria Teresa Gomez-Lopez, Antonia M. Reina Quintero, Luisa Parody, Jose Miguel Pérez Alvarez, Manfred Reichert	
14:30 - 15:00	Formal Semantics for Modeling Collaborative Business Processes based on Interaction Protocols Emiliano Reynares, Jorge Roa, María Laura Caliusco, Pablo Villarreal	
15:00 - 15:30	An Extensible BPMN Process Simulator Luise Pufahl, Tsun Yin Wong, Mathias Weske	

14:00 - 15:30	DeHMiMoP	VS219
14:00 - 14:15	Opening	
14:15 - 15:00	Keynote speech	
15:00 - 15:30	Data-Centric Extraction of DMN Decision Models from BPMN Process Models Francesca Zerbato, Mathias Weske, Ekaterina Bazhenova	
14:00 - 15:30	REBPM	VS215
14:00 - 14:15	Summary of the morning sessions Banu Aysolmaz	
14:15 - 14:45	Successful Post Merger Process Harmonization in the Triangle of Methodologies, Capabilities and Acceptance Irene Schoenreiter	
14:45 - 15:30	Developing a little picture on BPM, RE and agility (together with the participants) and identifying aspects of further research Banu Aysolmaz	
14:00 - 15:30	BPAI	VS208
14:00 - 14:30	Objective Coordination with Business Artifacts and Social Engagements Matteo Baldoni, Cristina Baroglio, Federico Capuzzimati, Roberto Micalizio	
14:30 - 15:00	Enhancing workflow-nets with data for trace completion Riccardo De Masellis, Chiara Di Francescomarino, Chiara Ghidini, Sergio Tessaris	
15:00 - 15:30	Optimal paths in business processes: framework and applications Marco Comuzi	

14:00 - 15:30	BP-Meet-IoT	VS206a
14:00 - 14:20	From BPM to IoT Sylvain Cherrier, Sylvain Cherrier, Varun Deshpande	
14:20 - 15:30	Panel: «BP meet IoT: new wine in old bottles?» Massimo Mecella	
14:00 - 15:30	CBPM	VS216
14:00 - 15:05	AI Foundations for Cognitive BPM Giuseppe De Giacomo	
15:05 - 15:30	Cognitive Computing: What's in for Business Process Management? An Exploration of Use Case Ideas Maximilian Roeglinger, Johannes Seyfried, Simon Stelzl, Michael zur Muehlen	
14:00 - 15:30	SPBP	VS210
14:00 - 15:30	Blockchains for Business Process Management - Challenges and Opportunities Jan Mendling	
15:30 - 16:00	Coffee Break	Vertex Garden
16:00 - 17:30	BPI	VS217
	Annual IEEE Task Force on Process Mining Meeting	
16:00 - 17:30	DeHMiMoP	VS219
16:00 - 16:30	Discovering business rules in knowledge-intensive processes through decision mining: experimental study Julio Campos, Pedro Richetti, Fernanda Araujo Baiao, Flávia Maria Santoro	
16:30 - 17:00	Challenges in Refactoring Processes to Include Decision Modelling Faruk Hasic, Lesly Devadder, Maxim Dochez, Jonas Hanot, Johannes De Smedt, Jan Vanthienen	
17:00 - 17:30	Panel: Nurturing research into hybrid and declarative approaches to Business Process Management	

16:00 - 17:30	REBPM	VS215
	Agile Process harmonization in ecosystems, pre/post merger situations etc. Banu Aysolmaz	
16:00 - 17:30	BPAI	VS208
16:00 - 16:20	An agent-based model of a business process: the use case of a hospital emergency department Emilio Sulis, Antonio Di Leva	
16:20 - 16:40	Constraint-Based Composition of Business Process Models Piotr Wiśniewski, Krzysztof Kluza, Mateusz Slazynski, Antoni Ligeza	
16:40 - 17:00	Semantically-Oriented Business Process Visualization for a Data and Constraint-Based Workflow Approach Eric Rietzke, Ralph Bergmann, Norbert Kuhn	
17:00 - 17:20	Abduction for generating synthetic traces Federico Chesani, Anna Ciampolini, Daniela Loreti, Paola Mello	
16:00 - 17:40	CBPM	VS216
16:00 - 16:25	Cognitive Business Process Management. State-of-the-Art and an Initial Realisation based on KR and Planning Massimo Mecella	
16:25 - 16:50	BPM for the masses: empowering participants of Cognitive Business Processes Aleksander Slominski, Aleksander Slominski, Vinod Muthusamy	
16:50 - 17:15	Using Insights from Cognitive Neuroscience to Investigate the Effects of Event-Driven Process Chains on Process Model Comprehension Tim Mohring, Michael Zimoch, Tim Mohring, Rüdiger Pryss, Thomas Probst, Winfried Schlee, Manfred Reichert	
17:15 - 17:40	Knowledge-intensive Processes: a research framework Flávia Maria Santoro	

16:00 - 17:30	SPBP	VS210
16:00 - 16:45	Personal Data Management: An Abstract Personal Data Lifecycle Model Majed Alshammari, Majed Alshammari, Andrew Simpson	
16:45 - 17:30	Improvement of Security Costs Evaluation Process by Using Data Automatically Captured from BPMN and EPC Models Dmitrij Olifer, Nikolaj Goranin, Justinas Janulevicius, Arnas Kaceniauskas, Antanas Cenys	
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19:00 - 21:00	Welcome Reception Barcelona Biomedical Research Park	

* Parallel session hours indicated in green colour

Tuesday, September 12, 2017

08:00 - 09:00	Registration	Vertex Building
09:00 - 09:20	Opening	Vertex Auditorium
09:20 - 10:30	Keynote Intelligent continuous improvement, when BPM meets AI Chair: Akhil Kumar , Penn State University Miguel Valdés , Bonitasoft	Vertex Auditorium
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10:30 - 11:00	Coffee Break	Vertex Garden
11:00 - 12:30	BPM Session 1: Process Modelling Chair: Jan Mendling , Vienna University of Economics and Business	Vertex Auditorium
11:00 - 11:30	Temporal Network Representation of Event Logs for Improved Performance Modelling in Business Processes Arik Senderovich, Matthias Weidlich and Avigdor Gal	
11:30 - 12:00	Synthesizing Petri nets from Hasse diagrams Robin Bergenthum	
12:00 - 12:30	PE-BPMN: Privacy-enhanced Business Process Model and Notation Pille Pullonen, Raimundas Matulevicius and Dan Bogdanov	
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11:00 - 12:30	Industry Track 1 : Mining & Big Data & Optimisation Chair: Barbara Weber , Technical University of Denmark	Sala d'Actes
11:05 - 11:25	Problems and challenges when implementing a best practice approach for process mining in a tourist information system Marian Lux, Stefanie Rinderle-Ma	
11:25 - 11:45	iPRODUCT – Intelligent Process Prediction based on Big Data Analytics Nijat Mehdiyev, Andreas Emrich, Björn Stahmer, Peter Fettke, Peter Loos	

11:45 - 12:05	Improving Operational Performance in Service Delivery Organizations Through A Metaheuristic Task Allocation Algorithm Rahul Paul, R. P. Jagadeesh Chandra Bose, Stephan K Chalup, Gurulingesh Raravi
12:05 - 12:25	Declarative process models in government-centric IT Lasse Nørgaard Hende, Jesper Birk Andreassen, Frans Saxbeck Larsen, Morten Marquard, Søren Debois
11:00 - 12:30	Tutorial 1: VS217 Integrated Modeling and Verification of Processes and Data Marco Montali , Research Centre for Knowledge and Data (KRDB) Diego Calvanese , Research Centre for Knowledge and Data (KRDB)
12:30 - 14:00	Lunch Unity Restaurant
14:00 - 15:30	BPM Session 2: Process mining I Vertex Auditorium Chair: Barbara Weber , Technical University of Denmark
14:00 - 14:30	Learning Hybrid Process Models From Events: Process Discovery Without Faking Confidence Wil M.P. van der Aalst, Riccardo De Masellis, Chiara Di Francescomarino, Chiara Ghidini
14:30 - 15:00	Path-Colored Flow diagrams: increasing Business Process Insights by visualizing event logs Koen Daenen
15:00 - 15:30	Multi Instance Anomaly Detection in Business Process Executions Kristof Böhmer and Stefanie Rinderle-Ma
14:00 - 15:30	Industry Track 2: Management Sala d'Actes Chair: Thomas Hildebrandt , IT University of Copenhagen
14:05 - 14:25	Decision Management in the Insurance Industry: Standards and Tools Kimon Batoulis, Alexey Nesterenko, Günther Repitsch, Mathias Weske

14:25 - 14:45	Context-aware enterprise modeling towards agile models development Julia Bilinkis, Nikolay Kazantsev
14:45 - 15:05	An Applied Method for Selecting a Business Process Management Tool in Enterprise Software Project Mehmet Mustafa Gursul
15:05 - 15:25	The Project Start Review Group R.J. Macasaet
15:30 - 16:00	Coffee Break Vertex Garden
16:00 - 18:00	BPM Session 3: Vertex Auditorium Assorted BPM topics Chair: Pnina Soffer , University of Haifa
16:00 - 16:30	AB-BPM: Performance-driven Instance Routing for Business Process Improvement Suhrid Satyal, Ingo Weber, Helen Paik, Claudio Di Ciccio and Jan Mendling
16:30 - 17:00	Optimized Execution of Business Processes on Blockchain Luciano García-Bañuelos, Alex Ponomarev, Marlon Dumas and Ingo Weber
17:00 - 17:30	Efficient migration-aware algorithms for elastic BPMaaS Guillaume Rosinosky, Samir Youcef and François Charoy
17:30 - 18:00	Uncovering the Hidden Co-Evolution in the Work History of Software Projects Saimir Bala, Kate Revoredo, João Carlos De A. R. Gonçalves, Fernanda Araujo Baiao, Jan Mendling and Flavia Santoro
16:00 - 17:00	BPM Forum 1: Models and Metrics VS217 Chair: Chiara Ghidini , FBK-irst
16:00 - 16:20	Elements for Tailoring a BPM Maturity Model to Simplify its Use Marie-Therese Christiansson and Amy Van Looy
16:20 - 16:40	A new framework for defining realistic SLAs: An evidence-based approach Minsu Cho, Minseok Song, Carlos Müller, Pablo Fernandez, Adela Del-Río-Ortega, Manuel Resinas and Antonio Ruiz-Cortés
16:40 - 17:00	A Template for Sharing Empirical Business Process Metrics Daniel Lübke, Ana Ivanchikj and Cesare Pautasso

16:00 - 17:30	Industry Track 3: Agility and Declarative models Chair: Søren Debois , IT University of Copenhagen	Sala d'Actes
16:05 - 16:25	Engineering Management through M-PDCA in Defense Industry: The Case of FNSS Pinar Bakal, Zeynep Ozturk, Ari Bostan	
16:25 - 16:45	Business Process Context for Message Standards Nenad Ivezic, Miroslav Ljubicic, Marija Jankovic, Boonserm Kulvatunyou, Scott Nieman, Garret Minakawa	
16:45 - 17:05	Electronic Office : Zero-code Process Automation in the Google Cloud Anantharamaiah Prabhakar	
17:05 - 17:25	Digitalising the General Data Protection Regulation with Dynamic Condition Response Graphs Emil Heuck, Thomas Hildebrandt, Rasmus Kiærulff Lerche, Morten Marquard, Håkon Normann, Rasmus Iven Strømsted, Barbara Weber	

Wednesday, September 13, 2017

08:00 - 9:00	Registration	Vertex Building
09:00 - 10:10	Keynote: BPM: Reflections on a Broad Discipline Chair: Wil van der Aalst , Technical University of Eindhoven Mathias Weske , HPI, University of Potsdam	Vertex Auditorium
10:10 - 10:40	Coffee Break	Vertex Garden
10:40 - 11:00	Demo Teasers 1	Vertex Auditorium
11:00 - 12:30	BPM Session 4: Decisions and understanding Chair: Manfred Reichert , University of Ulm	Vertex Auditorium
11:00 - 11:30	Towards a Holistic Discovery of Decisions in Process-Aware Information Systems Johannes De Smedt, Faruk Hasić, Seppe Vanden Broucke and Jan Vanthienen	
11:30 - 12:00	Effect of Linked Rules on Business Process Model Understanding Wei Wang, Marta Indulska, Shazia Sadiq and Barbara Weber	
12:00 - 12:30	On the Performance Overhead of BPMN Modeling Practices Ana Ivanchikj, Vincenzo Ferme and Cesare Pautasso	
11:00 - 12:30	Tutorial 2: Design theories in business process management research Roel Wieringa , University of Twente	Sala d'Actes
12:30 - 13:40	Lunch	Unity Restaurant
13:40 - 14:00	Demo Teasers 2	Vertex Auditorium

14:00 - 15:30	BPM Session 5: Process knowledge Chair: Hajo Reijers , <i>Vrije Universiteit Amsterdam</i>	Vertex Auditorium
14:00 - 14:30	Weak, Strong and Dynamic Controllability of Access-Controlled Workflows under Conditional Uncertainty Matteo Zavatteri, Carlo Combi, Roberto Posenato and Luca Viganò	
14:30 - 15:00	An Eye into the Future: Leveraging A-Priori Knowledge in Predictive Business Process Monitoring Chiara Di Francescomarino, Chiara Ghidini, Fabrizio Maria Maggi, Giulio Petrucci and Anton Yeshchenko	
15:00 - 15:30	Analysis of Knowledge-Intensive Processes Focused on the Communication Perspective Pedro Henrique Piccoli Richetti, João Carlos De A. R. Gonçalves, Fernanda Araujo Baiao and Flavia Santoro	
14:00 - 15:30	BPM Forum 2: Mining and compliance Chair: Matthias Weidlich , <i>Humboldt-Universität zu Berlin</i>	VS217
14:00 - 14:20	Toward a New Generation of Log Pre-processing Methods for Process Mining Paolo Ceravolo, Mohammadsadeh Torabi, Ernesto Damiani and Sylvio Barbon	
14:20 - 14:40	A Taxonomy of Compliance Processes for Business Process Compliance Tobias Seyffarth, Stephan Kühnel and Stefan Sackmann	
14:40 - 15:00	Improving Pattern Detection in Healthcare Process Mining using Interval-based Event Selection Method Amirah Alharbi, Andy Bulpitt and Owen Johnson	
15:00 - 15:20	Soundness of Decision-Aware Business Processes Kimon Batoulis and Mathias Weske	
15:30 - 16:00	Coffee Break	Vertex Garden

16:00 - 17:20	Demo Session Chairs: Robert Clarisó (UOC) and Henrik Leopold (VU)	Sala Agora
	<ul style="list-style-type: none"> • Online Conformance Checking for Petri Nets and Event Streams <i>Andrea Burattin</i> • PALIA-ER: Bringing Question Driven Process Mining Closer to the Emergency Room <i>Eric Rojas, Carlos Fernández-Llatas, Vicente Traver, Jorge Munoz-Gama, Marcos Sepúlveda, Valeria Herskovic and Daniel Capurro</i> • The Process Checklist Generator: Establishing Paper-based Process Support <i>Marcel Bankau, Michaela Baumann, Michael Heinrich Baumann, Stefan Schöning and Stefan Jablonski</i> • Replay using Recomposition: Alignment-Based Conformance Checking in the Large <i>Wai Lam Jonathan Lee, H.M.W. Verbeek, Jorge Munoz-Gama, Wil M.P. van der Aalst and Marcos Sepúlveda</i> • DPIL Navigator 2.0: Multi-Perspective Declarative Process Execution <i>Stefan Schöning, Lars Ackermann and Stefan Jablonski</i> • Improving Interactivity in Multidimensional Process Mining: The Interactive PMCube Explorer Tool <i>Thomas Vogelgesang</i> • NLP4BPM – Natural Language Processing Tools for Business Process Management <i>Josep Sánchez-Ferreres, Luis Delicado, Josep Carmona and Lluís Padró</i> • Design it like Darwin 2.0 – An Evolutionary Algorithm for Automatic Process Redesign <i>Jonas Manderscheid, Maximilian Röglinger, Tobias Ruby and Johannes Seyfried</i> • Predictive Analysis of BPM tasks with autoCEP <i>Raef Mousheimish, Yehia Taher and Karine Zeitouni</i> • Heuristic Mining Revamped: An Interactive, Data-aware, and Conformance-aware Miner <i>Felix Mannhardt, Massimiliano de Leoni and Hajo A. Reijers</i> • CJM-ex: Goal-oriented Exploration of Customer Journey Maps using Event Logs and Data Analytics <i>Gaël Bernard and Periklis Andritsos</i> • SPOT: Simulation and Evaluation of Real Time Locating System Data <i>Andreas Solti, Manuel Raffel, Manuel Stochlinski and Jan Mendling</i> • Testing Event-driven Applications with Automatically Generated Events <i>Maximilian Völker, Sankalita Mandal and Marcin Hewelt</i> 	

- **A Model-Driven Framework for Domain Specific Process Design and Governance**
Adrian Mos, Mario Cortes-Cornax, Jose Miguel Pérez Alvarez and María Teresa Gómez López
- **A Tool for Checking Soundness of Decision-Aware Business Processes**
Kimón Batoulis and Mathias Weske
- **APD tool: Mining Anomalous Patterns from Event Logs**
Laura Genga, Mahdi Alizadeh, Domenico Potena, Claudia Diamantini and Nicola Zannone
- **A Tool for Aligning Event Logs and Prescriptive Process Models through Automated Planning**
Massimiliano de Leoni and Andrea Marrella
- **mArtifact: an Artifact-driven Process Monitoring Platform**
Luciano Baresi, Claudio Di Ciccio, Jan Mendling, Giovanni Meroni and Pierluigi Plebani
- **WoPeD – A “Proof-of-Concept” Platform for Experimental BPM Research Projects**
Thomas Freytag, Philip Allgaier, Andrea Burattin and Andreas Danek-Bullius
- **Demonstrating Context-aware Process Injection with the CaPI Tool**
Klaus Kammerer, Nicolas Mundbrod and Manfred Reichert
- **The Proactive Insights Engine: Process Mining meets Artificial Intelligence and Machine Learning**
Fabian Q. Veit, Manuel Haug, Jan Philipp Thomsen and Jerome Geyer-Klingenberg
- **bupaR: Business Process Analysis in R**
Gert Janssenswillen and Benoît Depaire
- **Distributed Multi-Perspective Declare Discovery**
Christian Sturm, Stefan Schöning and Claudio Di Ciccio
- **Demonstrating Flexible Support for Knowledge-Intensive Processes with proCollab**
Nicolas Mundbrod and Manfred Reichert
- **A Modeling Tool for PHILharmonicFlows Objects and Lifecycle Processes**
Sebastian Steinau, Kevin Andrews and Manfred Reichert
- **EDU-ProM: ProM for the Classroom**
Yossi Dahari, Avigdor Gal and Arik Senderovich
- **Extensible BPMN Process Simulator**
Luise Pufahl and Mathias Weske
- **Caterpillar: A Blockchain-Based Business Process Management System**
Orlenys López-Pintado, Luciano García-Bañuelos, Marlon Dumas and Ingo Weber

- **Nirdizati: A Web-Based Tool for Predictive Process Monitoring**
Ilya Verenich, Kerwin Jorbina, Andrii Rozumnyi, Chiara Di Francescomarino, Marlon Dumas, Fabrizio Maria Maggi, Marcello La Rosa, Chiara Ghidini and Simon Raboczi
- **ProcessProfiler3D: A Tool for Visualising Performance Differences Between Process Cohorts and Process Instances**
Erik Poppe, Moe Wynn, Arthur Ter Hofstede, Ross Brown, Azzurra Pini and Wil van der Aalst
- **Checking Business Process Modeling Guidelines in Apmore**
Fabrizio Fornari, Stefania Gnesi, Marcello La Rosa, Andrea Polini, Barbara Re and Giorgio Oronzo Spagnolo
- **Automated compliance verification of business processes in Apmore**
Heerko Groefsema, Nick van Beest and Abel Armas Cervantes
- **Incremental and Interactive Business Process Model Repair in Apmore**
Abel Armas Cervantes, Nick van Beest, Marcello La Rosa, Marlon Dumas and Simon Raboczi
- **The onprom Toolchain for Extracting Business Process Logs using Ontology-based Data Access**
Diego Calvanese, Tahir Emre Kalayci, Marco Montali and Ario Santoso

17:20 - 18:00

Castellers (Human Towers)

Telecos Square

20:00 - 23:00

Conference Dinner

El Xalet de Montjuïc

Thursday, September 14, 2017

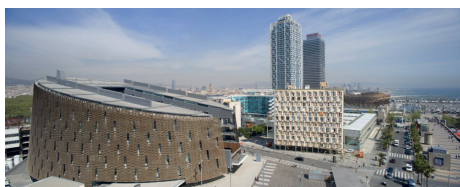
08:30 - 09:00	Registration	Vertex Building
09:00 - 10:10	Keynote: A Leaders Guide to Understanding New Business Models in the Digital Economy Chair: Gregor Engels , University of Paderborn Alan W. Brown , Business School at University of Surrey	Vertex Auditorium
10:10 - 10:40	Coffee Break	Vertex Garden
10:40 - 12:10	Panel 1: AI, Machine Learning, Blockchain – will machines eat the human factor in BPM? Panelists: Jan Mendling, Ingo Weber, Gero Decker, Hajo Reijers and Rick Hull	Vertex Auditorium
10:40 - 12:00	BPM Forum 3: BPM Miscellany Chair: Massimiliano de Leoni , Eindhoven University of Technology	VS217
10:40 - 11:00	BPMS-Game: Tool for Business Process Gamification Javier Mancebo Pavón, Felix Oscar Garcia Rubio, Maria De Los Angeles Moraga de La Rubia and Oscar Pedreira Fernández	
11:00 - 11:20	Events in Business Process Implementation: Early Subscription and Event Buffering Sankalita Mandal, Matthias Weidlich and Mathias Weske	
11:20 - 11:40	Artifact-driven Monitoring for Human-centric Business Processes with Smart Devices: Assessment and Improvement Giovanni Meroni and Pierluigi Plebani	
11:40 - 12:00	A Quantitative Study of the Link Between Business Process Management and Digital Innovation Amy Van Looy	
12:30 - 14:00	Lunch	Unity Restaurant

14:00 - 15:30	BPM Session 6: Process mining II Chair: Ingo Weber , CSIRO	Vertex Auditorium
14:00 - 14:30	TESSERACT: Time-drifts in Event Streams using Series of Evolving Rolling Averages of Completion Times Florian Richter and Thomas Seidl.	
14:30 - 15:00	Intra and Inter-Case Features in Predictive Process Monitoring: A Tale of Two Dimensions Arik Senderovich, Chiara Di Francescomarino, Chiara Ghidini, Kerwin Jorbina and Fabrizio Maria Maggi	
15:00 - 15:30	Discovering Infrequent Behavioural Patterns in Process Models David Chapela-Campa, Manuel Mucientes and Manuel Lama	
14:00 - 15:30	Tutorial 3: Conformance Checking: What does your process do when you are not watching? Massimiliano de Leoni , Eindhoven University of Technology Boudewijn van Dongen , Eindhoven University of Technology Jorge Munoz-Gama , Pontificia Universidad Católica de Chile	Sala d'Actes
15:30 - 16:00	Coffee Break	Vertex Garden
16:00 - 17:00	Tutorial 4: Incremental and interactive process model repair based on behavioral alignments Abel Armas , Queensland University of Technology	Sala d'Actes

SOCIAL EVENTS

Welcome reception - Barcelona Biomedical Research Park Monday, 11 September, 2017

The reception will take place at the Barcelona Biomedical Research Park (on the main terrace).



The PRBB is one of the largest hubs of biomedical research in southern Europe. The six centres located in the park conduct science of excellence in a wide diversity of fields, with a critical mass of 1,500 people hailing from 50 different countries, an accumulated R&D budget of approximately 90 M€ per year and cutting-edge scientific equipment. This allows us to explore, in a unique building, the most relevant questions in life sciences and biomedicine today, from the molecular up to the populational perspective. The physical connection of the PRBB with the Hospital de Mar next door also provides an excellent insight into clinical reality.

The PRBB, as a scientific facility for biomedical research, complements its services with an auditorium designed for holding scientific conferences. It is located on a raised level, in the heart of the PRBB building overlooking the sea, across from Barceloneta beach, with independent access from the rest of the building.

Visit to Sagrada Familia Tuesday, 12 September, 2017, 19:00 Thursday, 14 September, 2017, 19:00

Discover the meaning of Gaudí's artistic universe on this guided tour of the Sagrada Familia, Barcelona's icon and the dream of the brilliant architect. On the tour, you'll discover the different façades of the basilica and visit its surprising interior, inspired by nature and consisting of vast columns that make up an astonishing stone forest. Plans and models will reveal how Gaudí conceived his vision of 18 towers which, with some variations on the original design, are closer to completion every day as a result of the money raised from ticket sales and donations.



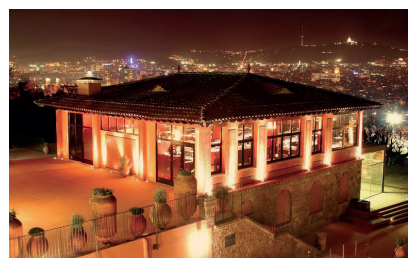
The organization will offer the service of official guides without cost. The tickets for the visit are not included in the conference fee, and should have been reserved in advance.



Castells in BPM 2017 Wednesday 13 September, 2017; just after the demo session

A castell is a human tower built traditionally in festivals at many locations within Catalonia. At these festivals, several colles castelleres (group of people who do these towers) often succeed in building and dismantling a tower's structure. On 2010 castells were declared by UNESCO to be amongst the Masterpieces of the Oral and Intangible Heritage of Humanity. During the conference, just after the demo session on 13 September, a castellers performance will take place for all the attendees at the BPM 2017. The group in charge of the performance are Arreplegats. The Arreplegats de la Zona Universitària are a colla castellera comprised exclusively of people linked to universities in Barcelona. The colla was founded in 1995 by a group of students who were also castellers and wanted to keep and practice their hobby in college.

Conference Dinner - El Xalet de Montjuïc Wednesday 13 September, 2017



The conference dinner will be hosted at El Xalet de Montjuïc, a gastronomic space that combines Mediterranean cuisine and author with the most spectacular views of Barcelona.

Buses will take the attendants to the conference dinner from the conference venue.

BARCELONA

The city of Barcelona is the second largest city in Spain, and the capital of Catalonia, with a population of 1,7 million inhabitants and 3 million in the metropolitan area. Its cultural richness, vibrant life, and splendid location has made it one of the most visited cities in the world, with over 4 million visitors per year.

Over two thousands years old, there is not just one Barcelona, but several. The old city (Ciutat Vella) offers the visitor a wide range of routes to follow and reconstruct the history of Barcelona by starting at the Roman walls, moving to the medieval streets of the Gothic Quarter and going to the popular promenade know as La Rambla. The city expansion (Eixample), formed from 1860 to 1930, bears witness to the wealth brought about by the economic growth of the period. Barcelona is best known for its architectural treasures, featuring many unique buildings from the "Modernist" period (late 19th-early 20th centuries), seven of which have declared World Heritage Sites by UNESCO. Furthermore, in the last two decades, Barcelona has been an experimentation ground for the most innovative architectural concepts.

Barcelona is also famous for its cultural tradition. The city has over twenty museums, covering all aspects of art and culture. The best known are the National Museum of Art of Catalonia with one of the major collections of Romanesque and Gothic art, the Museum of Historic Art, the Picasso Museum, the Miró Foundation and the Tàpies Foundation. The Science Museum presents a wideranging display of scientific and technological advances. The Fòrum de les Cultures is another cultural target.

Besides some major art show rooms, most musical events take place in three large venues: the Palau de la Música Catalana, a real modernist gem, the Auditorium, and the Gran Teatre del Liceu, which is a leading opera house, reconstructed after its burning in 1994. Many stage troupes and actors in Barcelona are the best in Spain, and achieve international acclaim. A glance at the programme of cultural and entertainment events published in the Barcelona daily newspapers is the best way of finding out of what going on in the city.



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The idea of Signavio

Many employees are rarely faced with the topic of business process management. Though, these employees as well as customers or business partners are particularly important for improving business processes. Thus, those people have to be involved in process design right from the start – without huge training efforts. To achieve a high level of engagement and acceptance among the employees, an intuitive and collaborative BPM tool is one of the key drivers to success. While working on the Oryx-Project at Hasso-Plattner-Institute, Potsdam, Germany we obtained a deep appreciation and understanding of the advantages of a webbased, collaborative BPM tool. Parts of the Oryx-technology and concepts developed at the Institute are today incorporated within the Signavio Process Editor.

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NEWS: Celonis is glad to inform you that they offer free academic licenses for Celonis suite to the members of the BPM conference and the participants of the BPI challenge. For the free academic license, academics just have to register here: <https://academiccloud.celonis.com/login/register>

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The Dynamic Condition Response graph (DCR-graph) is a BPM methodology and IT-technology. DCR has been developed in cooperation between the IT University of Copenhagen and Exformatics. DCR is a cloud-based BPM solution, which is used by companies and organizations all over the world. DCR is a method and a digital tool that makes it possible to describe and simulate workflows and business processes in a more agile way than is currently possible with traditional tools and methodologies. DCR retains the flexibility of the workflow and demonstrates how processes meet business, regulatory and compliance requirements. The digital workflows in DCR can be embedded and modified in real time in the IT systems. In 2016 the DCR solution was finalist for the recognized, global price, BPM Awards.

- Learn more at <http://dcrgraphs.com/>



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ca technologies

What makes CA unique in our ability to help customers is more than the sum of our experience and expertise—it's how we view the world, who we are, how we live and how we work. In fulfilling our mission, it's not just what we do that matters. It's what we believe.

CA Technologies has been positioned by Gartner, Inc., in the Leaders Quadrant of the 2017 Gartner Magic Quadrant for Enterprise Agile Planning Tools. The report evaluated CA Agile Central, an enterprise-class platform purpose-built for scaling agile development practices. CA Technologies was positioned the furthest in the Leaders quadrant for Completeness of Vision.

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Mysphera

We are a global company headquartered in Valencia (Spain – EU) focused on transforming healthcare systems through location and process visibility leveraging smart IoT solutions. Our Vision is to empower Clinicians, Patients, and Healthcare Management with smart-sensor-driven on-demand actionable information to improve patient care outcomes while increasing efficient management of resources in hospitals, senior living, and patient homes.

Healthcare providers win process visibility to improve efficiency, efficacy and optimization of resources in real time and thanks to data analysis.

Patients win safety in the clinical process, and relatives get more satisfaction because they are informed in real time about the patient status in the clinical process and location.

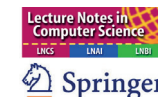
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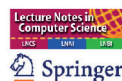
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