# BPM2018 Detailed Program

**Sun, Sep 09, 2018**

## 8:00am

**Registration**

- 8:00am - 9:00am, Sep 9

## 9:00am

**Doctoral Consortium Session I**

- 9:00am - 10:45am, Sep 9
- CB11.03.205

- *Process Deviation Analysis for Continuous Auditing*. Marzie Hosseinpour
- *Challenges of Continuous Delivery of Process-driven Applications*. Konrad Schneid

## 10:45am

**Morning Tea**

- 10:45am - 11:00am, Sep 9

## 11:00am

**Doctoral Consortium Session II**

- 11:00am - 12:45pm, Sep 9
- CB11.03.205

- *Identification of Digitalization Potentials in Business Processes*. Florian Rittmeier
- *Knowledge-Driven Approach for Engineering Data Analytics Processes*. Madhushi Bandara

## 12:45pm

**Lunch Time**

- 12:45pm - 1:45pm, Sep 9

## 1:45pm

**Doctoral Consortium Session III**

- 1:45pm - 3:30pm, Sep 9
- CB11.03.205

- *Methods and Tools for Analysis and Management of Risks, Compliance and Privacy in the*
Healthcare Sector: The Hospital at Home. Ilaria Angela Amantea
- The Potential of Real-Time Sensor Data for the Analysis and Improvement of Workflows in Manufacturing. Sönke Knoch
- Building Privacy Awareness in Clinical Workflows. Saliha Irem Besik

3:30pm
Afternoon Tea
⏰ 3:30pm - 3:45pm, Sep 9

3:45pm
Doctoral Consortium Session IV
⏰ 3:45pm - 4:55pm, Sep 9
📍 CB11.03.205
- Events Correlation. Dina Bayomie
- Advancing Decomposed Conformance Checking in Process Mining. Wai Lam Jonathan Lee

Mon, Sep 10, 2018

8:00am
Registration
⏰ 8:00am - 9:00am, Sep 10

9:00am
BPI
⏰ 9:00am - 10:30am, Sep 10
📍 CB11.04.205
You can find more details here

BPMS2
⏰ 9:00am - 10:30am, Sep 10
📍 CB11.03.204
You can find more details here

PODS4H
⏰ 9:00am - 10:30am, Sep 10
📍 CB11.04.401
You can find more details here
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:00am</td>
<td>AI4BPM</td>
<td>You can find more details here</td>
<td>CB11.04.103+105</td>
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<td>9:00am</td>
<td>CCBPM</td>
<td>You can find more details here</td>
<td>CB11.03.206</td>
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<td>9:15am</td>
<td>BP-Meet-IoT / PQ</td>
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<td>BPM-Meet-IoT</td>
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<td>Process Querying (PQ)</td>
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<td>10:30am</td>
<td>Coffee Break</td>
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CB11.04.401

You can find more details [here](#).

**AI4BPM**

- **Event:** 11:00am - 12:30pm, Sep 10
- **Location:** CB11.04.103+105

You can find more details [here](#).

**BP-Meet-IoT / PQ**

- **Event:** 11:00am - 12:30pm, Sep 10
- **Location:** CB11.03.205

You can find more details in the links below:

- BPM-Meet-IoT
- Process Querying (PQ)

**CCBPM**

- **Event:** 11:00am - 12:30pm, Sep 10
- **Location:** CB11.03.206

You can find more details [here](#).

**12:30pm**

**Lunch**

- **Event:** 12:30pm - 2:00pm, Sep 10

**2:00pm**

**BPI**

- **Event:** 2:00pm - 3:30pm, Sep 10
- **Location:** CB11.04.205

You can find more details [here](#).

**BPMS2**

- **Event:** 2:00pm - 3:30pm, Sep 10
- **Location:** CB11.03.204

You can find more details [here](#).
PODS4H
2:00pm - 3:30pm, Sep 10
CB11.04.401
You can find more details here

AI4BPM
2:00pm - 3:30pm, Sep 10
CB11.04.103+105
You can find more details here

DeHMiMoP
2:00pm - 3:30pm, Sep 10
CB11.03.205
You can find more details here

REBPM / Education Symposium
2:00pm - 3:30pm, Sep 10
CB11.03.206
You can find more details in the links below:
REBPM
BPM Education Symposium

BPM Research Agenda
2:00pm - 3:30pm, Sep 10
CB11.04.101

3:30pm
Coffee Break
3:30pm - 4:00pm, Sep 10

4:00pm
BPI
4:00pm - 5:00pm, Sep 10
CB11.04.205
You can find more details here
PODS4H
○ 4:00pm - 5:00pm, Sep 10
📍 CB11.04.401

You can find more details [here](#).

DeHMimop
○ 4:00pm - 6:00pm, Sep 10
📍 CB11.03.205

You can find more details [here](#).

REBPM / Education Symposium
○ 4:00pm - 5:15pm, Sep 10
📍 CB11.03.206

You can find more details in the links below:

- [REBPM](#)
- [BPM Education Symposium](#)

BPM Research Agenda
○ 4:00pm - 5:30pm, Sep 10
📍 CB11.04.101

5:00pm

IEEE Task Force on Process Mining
○ 5:00pm - 6:00pm, Sep 10
📍 CB11.04.205

**AGENDA**

1. **Activities of the IEEE Task Force on Process Mining**
   - Events (BPI, ATAED, PM Camp, SIMPDA, PODS4H18, etc.)
   - LinkedIn group
   - Contests and challenges
   - Datasets
   - Standardization process / XES
   - Manifesto, books, courses
   - Community building (SRC)

2. **XES Standard**
   Brief update on standardization process.
3. IEEE International Conference on Process Mining (ICPM)

The first ICPM conference will take place in Aachen (Germany) in the last week of June 2019. See http://icpmconference.org for some initial information. This marks an important step for the Task Force. Hence, input from its members is welcomed (timing of the conference in future years, industry involvement, bylaws, governance, etc.). The first call for papers that will be distributed shortly, also http://icpmconference.org will be updated as the organization progresses.

7:00pm

Welcome Reception
🕒 7:00pm - 10:00pm, Sep 10

Welcome Reception
Where: The Harbour Spirit
When: Monday, 10 September 2018, 19:00 - 22:00

Tue, Sep 11, 2018

8:00am

Registration
🕒 8:00am - 9:00am, Sep 11

9:00am

Conference opening, Keynote 1 (Manfred Reichert)
🕒 9:00am - 10:30am, Sep 11
📍 CB11.00.405

Conference Opening (Room CB11.00.405)

Keynote 1 - Manfred Reichert (Room CB11.00.405): Business Process Management in the Digital Era: Scenarios, Challenges, Technologies

(Keynote Chair: Marco Montali)

10:30am

Coffee Break
🕒 10:30am - 11:00am, Sep 11

11:00am

BPM Research Track Session 1, BPM Forum Session 1, Tutorial 1
🕒 11:00am - 12:30pm, Sep 11
BPM Research Track Session 1: Methodology (Room CB11.00.405)

(Session Chair: Max Max Röglinger)

- *Open to Change: A Theory for Iterative Test-Driven Modelling*. Tijs Slaats, Søren Debois and Thomas Hildebrandt
- *Who is behind the Model? Classifying Modelers based on Pragmatic Model Features*. Andrea Burattin, Pnina Soffer, Dirk Fahland, Jan Mendling, Hajo A. Reijers, Irene Vanderfeesten, Matthias Weidlich and Barbara Weber
- *Assessing the Quality of Search Process Models*. Marian Lux, Stefanie Rinderle-Ma and Andrei Preda

BPM Forum Session 1: Multi-perspective BPM (Room CB11.03.301)

(Session Chair: Luise Pufahl)

- *A Logical Formalization of Time-Critical Processes with Resources*. Carlo Combi, Francesca Zerbato and Pietro Sala
- *Business Process Activity Relationships: is there anything beyond arrows?*. Greta Adamo, Stefano Borgo, Chiara Di Francescomarino, Chiara Ghidini, Nicola Guarino and Emilio Sanfilippo
- *Storytelling Integration of the Internet of Things into Business Processes*. Zakaria Maamar, Mohamed Sellami, Noura Faci, Emir Ugljanin and Quan Z. Sheng
- *Enriched modeling and reasoning on Business Processes with ontologies and Answer Set Programming*. Laura Giordano and Daniele Theseider Dupre


12:30pm

Lunch

12:30pm - 2:00pm, Sep 11

2:00pm

BPM Research Track Session 2, Panel

2:00pm - 3:30pm, Sep 11

BPM Research Track Session 2: Conceptual Modelling (Room CB11.00.405)

(Session Chair: Barbara Weber)

- *Animating Multiple Instances in BPMN Collaborations: from Formal Semantics to Tool Support*. Flavio Corradini, Chiara Muzi, Barbara Re, Lorenzo Rossi and Francesco Tiezzi
- *Conceptualizing a Framework to Manage the Short Head and Long Tail of Business Processes*. Florian Imgrund, Marcus Fischer, Christian Janiesch and Axel Winkelmann

Panel: *Has BPM Missed the IoT Revolution?* (Room CB11.03.301)
Moderator:
Athman Bouguettaya (University of Sydney, Australia)

Panellists:
Arkady Zaslavsky (Data61 CSIRO, Australia)
Gero Decker (Signavio)
Sanjiva Weerawarana (WSO2)
Fabio Casati (University of Trento, Italy)
Marlon Dumas (University of Tartu, Estonia)

3:30pm
Coffee Break
.getClassName() - 4:00pm, Sep 11

4:00pm
BPM Research Track Session 3, BPM Forum Session 2, Tutorial 2
.getClassName() - 5:30pm, Sep 11

BPM Research Track Session 3: Process Mining (Room CB11.00.405)
(Session Chair: Nick van Beest)
- Unbiased, Fine-Grained Description of Processes Performance from Event Data. Vadim Denisov, Dirk Fahland and Wil M.P. van der Aalst
- Predictive Process Monitoring Methods: Which One Suits Me Best? Chiara Di Francescomarino, Chiara Ghidini, Fabrizio Maria Maggi and Fredrik Milani
- Online Conformance Checking Using Behavioural Patterns. Andrea Burattin, Sebastiaan van Zelst, Abel Armas-Cervantes, Josep Carmona and Boudewijn van Dongen

BPM Forum Session 2: Context, Governance, and Standardisation (Room CB11.03.301)
(Session Chair: Amy Van Looy)
- A Typology of different forms of Business Process Standardisation (BPS). Kanika Goel, Wasana Bandara and Guy Gable
- How to Put Organizational Ambidexterity into Practice - Towards a Maturity Model. Maximilian Röglinger, Lisa Schwindenhammer and Katharina Stelzl
- Business Process and Rule Integration Approaches - An Empirical Analysis. Tianwa Chen, Wei Wang, Marta Indulska and Shazia Sadiq
- Leveraging Unstructured Data to Analyze Implicit Process Context. Renuka Sindhgatta, Aditya Ghose and Hoa Khanh Dam

Tutorial 2 (Room CB11.03.206): Model Judge - Automatically Supporting Process Model Creation in the Classroom. Josep Carmona, Lluís Padró, and Josep Sànchez- Ferreres
### Wed, Sep 12, 2018

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00am</td>
<td><strong>Registration</strong></td>
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<td>⌚ 8:00am - 9:00am, Sep 12</td>
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<td>9:00am</td>
<td><strong>Keynote 2 (Brian T. Pentland), Demo Teasers</strong></td>
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<td>⌚ 9:00am - 10:30am, Sep 12</td>
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<td><strong>Keynote 2 - Briant T. Pentland (Room CB11.00.405): Beyond Mining - Theorizing about Processual Phenomena</strong></td>
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<td>(Keynote Chair: Jan vom Brocke)</td>
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<td><strong>Demo Teasers (Room CB11.00.405)</strong></td>
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<td>10:30am</td>
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<td>⌚ 10:30am - 11:00am, Sep 12</td>
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<td>11:00am</td>
<td><strong>BPM Research Track Session 4</strong></td>
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<td><strong>BPM Research Track Session 4: Best paper (Room CB11.00.405)</strong></td>
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<td>(Session Chair: Mathias Weske)</td>
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<td>- <em>Construction Process Modeling: Representing Activities, Items and their Interplay</em>. Elisa Marengo, Werner Nutt and Matthias Perktold</td>
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<td>- <em>Maximizing Synchronization for Aligning Observed and Modelled Behaviour</em>. Vincent Bloemen, Sebastiaan van Zelst, Wil M.P. van der Aalst, Boudewijn van Dongen and Jaco van de Pol</td>
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<tr>
<td>12:30pm</td>
<td><strong>Lunch</strong></td>
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<td>⌚ 12:30pm - 2:00pm, Sep 12</td>
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<td>2:00pm</td>
<td><strong>BPM Research Track Session 5, Demo Session 1</strong></td>
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BPM Research Track Session 5: Machine Learning (Room CB11.00.405)

(Session Chair: Marlon Dumas)

- **Finding Structure in the Unstructured: Hybrid Feature Set Clustering for Process Discovery**. Alexander Seeliger, Timo Nolle and Max Mühlhäuser
- **act2vec, trace2vec, log2vec, and model2vec: Representation learning for Business Processes**. Pieter de Koninck, Seppe vanden Broucke and Jochen de Weerdt

Demo Session 1 (Room CB11.04.102):

- **A Tool for Generating Event Logs from Multi-Perspective Declare Models**. Vasyl Skydanienko, Chiara Di Francescomarino, Chiara Ghidini and Fabrizio Maria Maggi
- **A Tool for the Uniqueification of DMN Decision Tables**. Kimon Batoulis and Mathias Weske
- **A Tool to Monitor Consistent Decision-Making in Business Process Execution**. Carl Corea and Patrick Delfmann
- **BCIT: A Tool for Analyzing the Interactions between Business Process Compliance and Business Process Change**. Tobias Seyffarth and Kai Raschke
- **CoPMod: Support for Construction Process Modeling**. Elisa Marengo, Werner Nutt and Matthias Perktold
- **Event-based Process Simulation of Operating Resources in Assembly Workflows**. Philipp Staudt, Sönke Knoch and Daniel Porta

3:30pm

Coffee Break

3:30pm - 4:00pm, Sep 12

4:00pm

BPM Research Track Session 6, Demo Session 2

4:00pm - 5:30pm, Sep 12

BPM Research Track Session 6: Declarative Processes (Room CB11.00.405)

(Session Chair: Josep Carmona)

- **Interestingness of traces in declarative process mining: the Janus PLTLf approach**. Alessio Cecconi, Claudio Di Ciccio, Giuseppe De Giacomo and Jan Mendling
- **Correlating Activation and Target Conditions in Data-Aware Declarative Process Discovery**. Volodymyr Leno, Marlon Dumas and Fabrizio Maria Maggi
- **Feature-Oriented Composition of Declarative Artifact-Centric Process Models**. Rik Eshuis

Demo Session 2 (Room CB11.04.102):

- **Lorikeet: A Model-Driven Engineering Tool for Blockchain-Based Business Process Execution and Asset Management**. An Binh Tran, Qinghua Lu and Ingo Weber
- **MIDA: Multiple Instances and Data Animator**. Favio Corradini, Chiara Muzi, Barbara Re, Lorenzo Rossi and Francesco Tiezzi
- **OpyenXES: A Complete Python Library for the eXtensible Event Stream Standard**. Hernan
Valdivieso, Wai Lam Jonathan Lee, Jorge Munoz-Gama and Marcos Sepúlveda
- *The Process Yellow Marker: From Texts to Declarative Processes and Back*. Hugo A. López, Søren Debois, Thomas Hildebrandt and Morten Marquard
- *WoPeD goes NLP: Conversion between Workflow Nets and Natural Language*. Thomas Freytag and Philip Allgaier

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**7:30pm**

**Conference Dinner**
- 7:30pm - 11:30pm, Sep 12

**Conference Dinner:**
- **Where:** Australian National Maritime Museum (The Lighthouse Gallery)
- **When:** Wednesday, 12 September 2018, 19:30 - 23:30

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**Thu, Sep 13, 2018**

**8:00am**

**Registration**
- 8:00am - 9:00am, Sep 13

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**9:00am**

**Industry Day Opening, Keynote 3 (Sanjiva Weerawarana)**
- 9:00am - 10:30am, Sep 13
- CB11.00.405

**Industry Day Opening (Room CB11.00.405)**

**Keynote 3 - Sanjiva Weerawarana (Room CB11.00.405):** *Bringing Middleware to Everyday Developers with Ballerina*

(Keynote Chair: Ingo Weber)

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**10:30am**

**Coffee Break**
- 10:30am - 11:00am, Sep 13

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**11:00am**

**BPM Research Track Session 7, Industry Track Session1, Tutorial 3**
11:00am - 12:30pm, Sep 13

**BPM Research Track Session 7: Digital Innovation (Room CB11.00.405)**

(Session Chair: Shazia Sadiq)

- *Using Business Process Compliance Approaches for Compliance Management with regard to Digitization: Evidence from a Systematic Literature Review.* Stefan Sackmann, Stephan Kühlner and Tobias Seyffarth
- *Big Data Analytics as an Enabler of Process Innovation Capabilities: A Configurational Approach.* Patrick Mikalef and John Krogstie

**Industry Track Session 1: BPM Industry Papers and Invited Talk (Room CB11.03.301)**

(Session Chair: Stefanie Rinderle-Ma)

- *Bridging the gap between the use of SAP ERP and BPM.* Markus Grube
- *Process Mining for Business Process Standardization in ERP Implementation Projects – An SAP S/4 HANA Case Study from Manufacturing.* Christian Fleig, Dominik Augenstein and Alexander Maedche

**Tutorial 3 (Room CB11.03.206):** *Apromore - Advanced Process Mining in the cloud.* Raffaele Conforti and Marlon Dumas

12:30pm

Lunch

12:30pm - 2:00pm, Sep 13

1:40pm

**BPM Forum Session 3**

1:40pm - 3:30pm, Sep 13

**BPM Forum Session 3: Mining, monitoring, and simulation (Room CB11.03.206)**

(Session Chair: Jochen de Weerdt)

- *Process Mining Crimes - A Threat to the Validity of Process Discovery Evaluations.* Jana-Rebecca Rehse and Peter Fettke
- *Alarm-Based Prescriptive Process Monitoring.* Irene Teinemaa, Niek Tax, Massimilliano de Leoni, Marlon Dumas and Fabrizio Maria Maggi
- *Advanced Simulation of Resources Constructs in Business Process Models.* Sander Peters, Remco Dijkman and Paul Grefen

2:00pm
BPM Research Track Session 8, Industry Track Session 2  
⊙ 2:00pm - 3:30pm, Sep 13

**BPM Research Track Session 8: Organizational Aspects (Room CB11.00.405)**

(Session Chair: Aditya Ghose)

- *How Context-aware are Extant BPM Methods and Tools?*. Marie-Sophie Denner, Maximilian Röglinger, Theresa Schmiedel, Katharina Stelzl and Charlotte Wehking
- *Finding the "Liberos": Discover Organizational Models with Overlaps*. Jing Yang, Chun Ouyang, Maolin Pan, Yang Yu and Arthur ter Hofstede

**Industry Track Session 2: BPM Practitioner Talks (Room CB11.03.301)**

(Session Chair: Amin Beheshti)

- *Item tracking and supply chain provenance using blockchain*. Marek Gorski, Christian Kirschenpfadt, Juan Deniz, Markus Strazds and Morgan Lean - Laava ID, Sydney, Australia. Ingo Weber, Qinghua Lu, and An Binh Tran - Data61, CSIRO, Sydney, Australia

3:30pm

**Coffee Break**  
⊙ 3:30pm - 4:00pm, Sep 13

4:00pm

BPM Research Track Session 9, Industry Track Session 3, Tutorial 4  
⊙ 4:00pm - 5:30pm, Sep 13

**BPM Research Track Session 9: Alignments and Precision (Room CB11.00.405)**

(Session Chair: Marco Montali)

- *Efficiently Computing Alignments using the Extended Marking Equation*. Boudewijn van Dongen
- *An Evolutionary Technique to Approximate Multiple Optimal Alignments*. Farbod Taymouri and Josep Carmona
- *Abstract-and-Compare: A Family of Scalable Precision Measures for Automated Process Discovery*. Adriano Augusto, Abel Armas-Cervantes, Raffaele Conforti, Marlon Dumas, Marcello La Rosa and Daniel Reißner

**Industry Track Session 3: BPM Industry Papers (Room CB11.03.301)**

(Session Chair: Manfred Reichert)

- *Supporting Business Rule Management with Inconsistency Analysis*. Carl Corea and Patrick Delfmann
• *Dynamic Evaluation Forms using Declarative Modeling*. Rasmus Strømsted, Søren Debois, Hugo A. López and Morten Marquard
• *How to Handle a Massive Change: Guidance on a Process Improvement Project, Our Journey to Excellence*. Zeynep Ozturk and Pinar Bakal
• *centurio.work - Modular Secure Manufacturing Orchestration*. Florian Pauker, Juergen Mangler, Stefanie Rinderle-Ma and Christoph Pollak

**Tutorial 4 (Room CB11.03.206):** *Agent-based modeling and BPM - A practical introduction to Netlogo*. Emilio Sulis

Fri, Sep 14, 2018