

Call for Papers for the  
**2<sup>nd</sup> International Workshop on Methods for Interpretation of Industrial Event Logs (MIEL2019)**  
to be held on the  
17th International Business Process Management Conference (BPM 2019)  
Vienna, September 1-6, 2019  
<http://bpm2019.ai.wu.ac.at>

**CHAIRS of MIEL 2019** Grzegorz J. Nalepa, David Camacho, Edyta Brzychczy,  
Roberto Confalonieri, Martin Atzmueller, Marco Montali

**WEBSITE:** <http://miel.geist.re>

**DESCRIPTION:** The objective of this half-day workshop is to discuss novel intelligent data analysis methods suitable for the analysis and interpretation of industrial event logs. We aim to include and possibly combine two distinct perspectives. The first uses methods from data mining and computational intelligence. The second uses background domain knowledge for conceptual analysis. We would like to focus on (but not limit to) the applications of the mentioned methods according to those two perspectives to Industry 4.0. In this setting, the source of the event logs would be industrial machinery, but also possibly personnel or activity monitoring devices.

**TOPICS OF INTEREST of the workshop include (but not limited to):**

- activity recognition in the industrial setting
- anomaly detection on event log data
- conceptual modeling of industrial processes
- conformance checking of industrial process models
- event logs abstraction methods
- intelligent analysis of multi-sensor data
- industrial case studies with real-life complex event logs
- industrial process modeling
- knowledge graphs on event log data
- network analysis on event log data
- ontologies for industrial domains
- ontology-based methods for event-log generation
- supervised and unsupervised methods of log analysis
- explainable models of event log analysis

**SUBMISSION:** We encourage the submission of full research papers up to 12 pages, as well as short papers (up to 6 pages) discussing early research proposals, or giving an overview of specific methods and tools applicable for the problems considered in the workshop, as well as practical projects in this area. Please use EasyChair for submission for BPM 2019 <https://easychair.org/conferences/?conf=bpm2019> with track "*Workshop on Methods for Interpretation of Industrial Event Logs*". Also, please follow the Springer LNBIP template to format the paper. The LNBIP proceedings will be prepared as post-proceedings.

**IMPORTANT DATES: (tentative)**

Paper submission: 24.05.2019  
Notification: 28.06.2019  
Camera-ready: 12.07.2019  
Workshop: 02.09.2019

**PROGRAM COMMITTEE (tentative)**

Andrea Burattin, Technical University of Denmark, Denmark  
Szymon Bobek, AGH University of Science and Technology, Poland  
Josep Carmona, Universitat Politècnica de Catalunya, Spain  
Diego Calvanese, Free University of Bozen-Bolzano, Italy  
Dirk Fahland, Technical University in Eindhoven, The Netherlands  
Felix Mannhardt, SINTEF, Norway  
Chiara Ghidini, FBK Trento, Italy  
Rushed Kanawati, Université Sorbonne Paris Cité, France  
Benjamin Kloepper, ABB, Germany  
V́ctor Rodríguez, Universidad Autónoma de Madrid, Spain  
Dominik Ślęzak, University of Warsaw, Poland  
Jose Tomas Palma Mendez, Universidad de Murcia, Spain  
Christopher Turner, University of Surrey, UK  
Marcin Szyrka, AGH University of Science and Technology, Poland

**OTHER ACTIVITIES:** during the workshop we are planning to have an introductory talk, presentations of related-projects as well as a panel discussion; furthermore, an industrial session is considered.