

**Second International Workshop
on BP-meet-IoT (BP-meet-IoT 2018)**

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Business process management (BPM) is a well-established discipline that deals with the identification, discovery, analysis, (re-)design, implementation, execution, monitoring, and evolution of processes. The Internet of Things (IoT) is a network of interconnected computing devices that are seamlessly embedded in objects, animals, people, which are called the things in the IoT. By embedding these computing devices, we enable things to sense and respond to their surrounding environment and to build a bridge between the digital and the physical worlds (e.g., all effort around cyber-physical systems). While BPM and the IoT are very different domains, they can mutually benefit from each other. However, several challenges need to be tackled. Particularly, it has to be understood:

- How BPM can improve the IoT by (a) taking a process-oriented perspective and considering the process history, (b) bridging the abstraction gap between raw sensor data and higher level knowledge extracted from this event data, and (c) optimizing decision-making in the large
- How to exploit the IoT to improve processes along their lifecycle by (a) considering sensor data for automatically detecting the start and end of activities, (b) using event data for making decisions in a pre-defined process model, and (c) detecting discrepancies between the pre-defined model and actual enactment using event data for online process compliance checking and exception management.

In the second edition of the BP-meet-IoT workshop, the following three full papers were presented: “Retrofitting of Workflow Management Systems with Self-X Capabilities for Internet of Things” by Ronny Seiger, Peter Heisig and Uwe Assmann; “On the Contextualization of Event-Activity Mappings” by Agnes Koschmider, Felix Mannhardt and Tobias Heuser; and “A Classification Framework for IoT Scenarios” by Sankalita Mandal, Marcin Hewelt, Maarten Oestreich and Mathias Weske.

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Organization

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