Preface to the Proceedings of the 10th International Workshop on Business Processes Meet the Internet of Things (BP-Meet-IoT 2026)

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1. Introduction

The 10th international workshop on business process meet Internet of Things took place at the University of Twente on September 15, 2026.

Whether it is design, operations, computing, or business processes (BP), in today's distributed world, we rely on recognizing and seizing advantages in interconnectedness. The arrival of the Internet of Things (IoT) has enabled a vast number of embedded computing devices with sensing and actuation capabilities to bridge humans, processes, and technology. With this background, the incorporation of IoT into enterprise business process engineering and management solutions revolutionizes how we analyze and automate processes to add value to our enterprises.

When BP meets IoT, we gain additional levels of data granularity and automation, enabling the development of IoT-enhanced business processes with greater flexibility, efficiency, and responsiveness. Flexible, online-capable solutions resulting from such approaches provide better support for evolving business requirements. Furthermore, effective alignment among data, processes, and systems fosters innovative solutions across various application areas and IT landscapes where IoT can be applied (e.g., smart cities, smart agriculture, smart manufacturing, or e-health).

This presents considerable potential and exciting challenges that our community is ready to address. In particular, research is faced with questions such as:

- What is the impact of introducing IoT technology into the business process lifecycles?
- How can the top-down and bottom-up paradigms on which BP and IoT rely, respectively, coexist and benefit each other when brought together?
- How to bridge the abstraction gap between low-level (sensor data) and high-level events and actuations?
- How will systems deal with the changing nature and emergent behavior imposed by IoT technology?
- How will real-time communication and collaboration required in IoT systems be supported by BP analytics?
- How should privacy considerations be taken into account when analyzing data captured by IoT devices using BP mining approaches?
- How can the IoT benefit from BP technologies?

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2. Workshop Program

This volume contains the papers presented at the 10th International Workshop on Business Process meets the Internet-of-Things, co-located with the 30th International Conference on Enterprise Design, Operations, and Computing, organized at the University of Twente, The Netherlands.

The workshop started with a thought-provoking keynote by Paul Grefen, senior full professor at Eindhoven University of Technology in the field of digital business architecture and transformation. The keynote started from one main question: "Do BP meet IoT indeed?", and explored some relevant hurdles preventing the efficient integration of IT systems with OT equipment, and presented lessons learned to bridge the gap between IT and OT.

The research track received five submissions, three of which were accepted for presentation at the workshop after single-blind peer review by three PC members. The accepted papers cover a wide range of the IoT-enhanced business process management pipeline, from the abstraction of low-level IoT events to high-level process events to perform process discovery, to the analysis of IoT data in real-time to integrate fatigue signs in resource allocation.

The challenges track received four submissions of relevant challenges for the future of IoT-enhanced business process management. Each challenge paper was reviewed by two senior PC members, and all four challenges were accepted. The four challenges presented are: Event abstraction, data quality, data fusion and emergence in IoT-enhanced business processes.

The workshop took place on September 15 and sparked a lot of discussions between the presenters and the participants. The organizers would like to thank the authors of all submitted papers and the keynote speaker for the interesting work and presentations. In addition, we would like to thank the PC members for their expertise and their input, as well as the conference organizers for helping to make the workshop possible.

3. Topics of Interest

The Call for Papers invited contributions on topics including, but not limited to:

- Modeling IoT-enhanced business processes
- Dealing with context in IoT-enhanced business processes
- Privacy and security in IoT-enhanced business processes
- Connection of analytical processes with IoT
- Mining IoT-enhanced business processes
- Dealing with unstructured environments and emergent behavior
- Specifying the autonomy level of IoT things
- Improving resource monitoring and quality of task execution
- IoT and ubiquitous technologies supporting process analytics
- Sensor-based task management in business processes
- Cyber-physical systems automation based on BP and IoT
- Business examples of IoT technologies applied to ubiquitous BPs
- Business models for novel IoT-enhanced business processes
- Enterprise architectures for and with IoT-enhanced business processes

4. Important Dates

- Paper submission deadline: June 26, 2026 (extended from June 19, 2026)
- Notification of acceptance: July 17, 2026
- Camera-ready deadline: October 6, 2026
- Workshop: September 15, 2026

5. Organization

Workshop Organizers

- Andrea Maldonado, University of Bayreuth, Germany, and School of Computation, Information and Technology, Technical University of Munich, Heilbronn, Germany
- Yannis Bertrand, Hasselt University, Belgium
- Ronny Seiger, RWTH Aachen University, Germany

Program Committee

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- Victoria Torres, Universitat Politècnica de València, Spain
- Zahra Ahmadi, KU Leuven, Belgium

Declaration on Generative AI

During the preparation of this preface, the authors used ChatGPT for formatting revisions.