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Sommario/riassunto

This book proposes a novel technique, named artifact-driven process
 monitoring, by which multi-party processes, involving non-automated
 activities, can be continuously and autonomously monitored. This
 technique exploits the Internet of Things (IoT) paradigm to make the
 physical objects, participating in a process, smart. Being equipped with
 sensors, a computing device, and a communication interface, such
 smart objects can then become self-aware of their own conditions and
 of the process they participate in, and exchange this information with
 the other smart objects and the involved organizations. To allow
 organizations to reuse preexisting process models, a method to
 instruct smart objects given Business Process Model and Notation
 (BPMN) collaboration diagrams is also presented. The work constitutes
 a revised version of the PhD dissertation written by the author at the
 PhD School of Information Engineering of Politecnico di Milano, Italy. In
 2019, the PhD dissertation won the "CAiSE PhD award", granted to
 outstanding PhD theses in the field of Information Systems Engineering.

