

1. Record Nr.	UNINA9911049115403321
Autore	Fortino Giancarlo
Titolo	Internet of Things Meets Business Process Management : A Synergistic Integration // edited by Giancarlo Fortino, Massimo Mecella
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2026
ISBN	3-031-90746-9
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (400 pages)
Collana	Internet of Things, Technology, Communications and Computing, , 2199-1081
Altri autori (Persone)	MecellaMassimo
Disciplina	658.054678
Soggetti	Telecommunication Internet of things Business information services Communications Engineering, Networks Internet of Things Business Information Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- From Internet of Things Data to Business Processes: Challenges and a Framework -- Behaviour-Centred Design of IoT Systems -- Enhancing Decision-Making -- Event-Log Granularity for IOT Process Mining -- Human-Centric Processes: Where IoT and People Meet -- Process Mining on Sensor Location Event Data -- Process Mining meets Robot -- The Internet of Production -- A Digital Twin Framework for Enhanced Manufacturing Capacity Using IoT Sensor Data -- Data representation and data quality for IoT-enhanced Business Processes -- Conclusion.
Sommario/riassunto	This book questions the extent to which the Internet of Things (IoT) and business process management (BPM) paradigms can be combined. The authors discuss emerging challenges and intersections from a research and practitioner's perspective in terms of complex software systems development and process mining methods. The authors demonstrate that while the IoT and BPM have been regarded as separate topics in research and in practice, they strongly believe that, on the one hand, the management of IoT applications will greatly

benefit from BPM concepts, methods, and technologies. And on the other hand, the IoT poses challenges that will require enhancements and extensions of the current state of the art in the BPM field. Topics explored include behavior-centered design of IoT systems, event-log granularity for IoT process mining, process mining on sensor location event data, and process mining and robotics, among others. The book pertains to researchers, academics, and professionals working in the intersection of IoT and BPM. Presents a synergistic integration between business process management (BPM) and IoT; Includes several methods for IoT-based process mining for business management; Pertains to researchers, academics, and professionals working in the intersection of IoT and BPM.
