Record Nr.	UNINA9910734842603321
Autore	Witczak Marcin
Titolo	Modern IoT Onboarding Platforms for Advanced Applications [[electronic resource]] : A Practitioner's Guide to KIS.ME / / by Marcin Witczak, Lothar Seybold, Eric Bulach, Niko Maucher
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	3-031-33623-2
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (XIII, 282 p. 197 illus., 142 illus. in color.)
Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 476
Disciplina	006.3
Soggetti	Computational intelligence
	Engineering mathematics
	Engineering—Data processing
	Dynamics
	Nonlinear theories
	Mathematical and Computational Engineering Applications
	Mathematical and Computational Engineering Applications Applied Dynamical Systems
Lingua di pubblicazione	Applied Dynamical Systems
Lingua di pubblicazione Formato	Mathematical and Computational Engineering Applications Applied Dynamical Systems Inglese Materiale a stampa
Lingua di pubblicazione Formato Livello bibliografico	Mathematical and Computational Engineering Applications Applied Dynamical Systems Inglese Materiale a stampa Monografia
Lingua di pubblicazione Formato Livello bibliografico Nota di contenuto	Mathematical and Computational Engineering Applications Applied Dynamical Systems Inglese Materiale a stampa Monografia 1.Introduction 2.Onboarding and Preliminary Functionality Training 3.Towards Logistic Applications 4.Implementing and Using Essential Statistical Process Control 5.Mastering System Monitoring and Control 6.Towards Advanced Applications 7.KIS.API: Towards external communication Appendix A KIS.ME commands and their sample applications Appendix B KIS.ME Datapoints and their sample applications.

1.

book undertakes the problem of modern IoT onboarding platforms for the advanced applications pertaining to manufacturing and logistics. In particular, instead of deliberating about a possible hypothetic platforms, an existing and efficient one is employed, which is called KIS.ME. KIS.ME (Keep It Simple. Manage Everything) is a complete IoT solution for a simple integration in manufacturing and logistics. It is composed of a set of hardware devices (KIS.BOX, KIS.IO and KIS.LIGHT), which are intuitively integrated with the cloud platform called KIS. MANAGER. Moreover, the entire platform is an open one, and hence, it enables communication with external services using KIS.API architecture. The application range of KIS.ME is extensive. This is due to the intuitive implementation and visualization of a user-defined key performance indicators (KPIs), which constitute effective optimization measures. Thus, the potential areas of application of KIS.ME are, e.g., manufacturing, warehouse management and logistics. Indeed, triggering and/or ordering various tasks can be immediately and efficiently implemented with KIS.ME. Such an approach translates directly to the savings of the time and energy. Subsequently, a gradual introduction to KIS.ME platform is presented, which constitutes the base for further advanced applications including logistics, control and maintenance of various processes. Finally, the potential of KIS.API communication framework is utilized for an efficient communication with external services.