1. Record Nr.   UNINA9910576881603321

   Autore   Portilla Jorge

   Titolo   Recent Advances in Embedded Computing, Intelligence and
                      Applications

   Pubbl/distr/stampa Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022

   Descrizione fisica 1 online resource (188 p.)

   Soggetti   Information technology industries

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Sommario/riassunto The latest proliferation of Internet of Things deployments and edge
                      computing combined with artificial intelligence has led to new exciting
                      application scenarios, where embedded digital devices are essential
                      enablers. Moreover, new powerful and efficient devices are appearing
                      to cope with workloads formerly reserved for the cloud, such as deep
                      learning. These devices allow processing close to where data are
                      generated, avoiding bottlenecks due to communication limitations. The
                      efficient integration of hardware, software and artificial intelligence
                      capabilities deployed in real sensing contexts empowers the edge
                      intelligence paradigm, which will ultimately contribute to the fostering
                      of the offloading processing functionalities to the edge. In this Special
                      Issue, researchers have contributed nine peer-reviewed papers
                      covering a wide range of topics in the area of edge intelligence. Among
                      them are hardware-accelerated implementations of deep neural
                      networks, IoT platforms for extreme edge computing, neuro-evolvable
                      and neuromorphic machine learning, and embedded recommender
                      systems.