Record Nr. UNINA9910404080403321 Autore Kung Hsu-Yang **Titolo** Deep Learning Applications with Practical Measured Results in **Electronics Industries** MDPI - Multidisciplinary Digital Publishing Institute, 2020 Pubbl/distr/stampa **ISBN** 3-03928-864-4 Descrizione fisica 1 electronic resource (272 p.) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia This book collects 14 articles from the Special Issue entitled "Deep Sommario/riassunto Learning Applications with Practical Measured Results in Electronics Industries" of Electronics. Topics covered in this Issue include four main parts: (1) environmental information analyses and predictions. (2) unmanned aerial vehicle (UAV) and object tracking applications, (3) measurement and denoising techniques, and (4) recommendation systems and education systems. These authors used and improved deep learning techniques (e.g., ResNet (deep residual network), Faster-RCNN (faster regions with convolutional neural network), LSTM (long short term memory), ConvLSTM (convolutional LSTM), GAN (generative adversarial network), etc.) to analyze and denoise measured data in a variety of applications and services (e.g., wind speed prediction, air quality prediction, underground mine applications, neural audio caption, etc.). Several practical experiments were conducted, and the results indicate that the performance of the presented deep learning

machine learning methods.

methods is improved compared with the performance of conventional