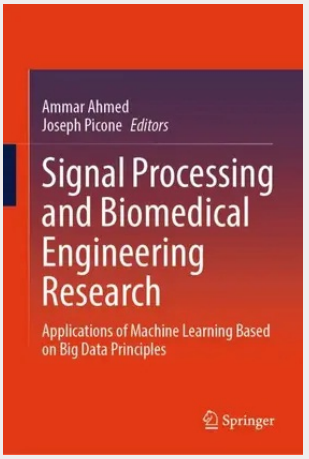
Ahmed / Picone

Signal Processing and Biomedical Engineering Research

Applications of Machine Learning Based on Big Data Principles



contains expanded versions of selected contributions from the 2024 IEEE Signal Processing in Medicine and Biology Symposium (IEEE SPMB 2024) held at Temple University. The symposium covers a wide range of topics in the life sciences and promotes machine learning and big data applications in bioengineering. The topics covered include signal and image analysis (e.g., EEG, ECG, MRI), machine learning, data mining, and classification, big data resources and applications, applications of quantum computing, digital pathology, computational biology, and genomics, genetics, and proteomics. The book features detailed review articles, tutorials, and examples of successful applications that will appeal to professionals and researchers in signal processing, medicine, and biology. It also provides an easy-to-understand introduction to various bioengineering topics for students and professionals new to the field, and essential algorithmic details on valuable benchmarks for professionals active in the field.

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