

1. Record Nr.	UNINA9910677691703321
Titolo	Machine learning algorithms for signal and image processing // edited by Deepika Ghai [and four others]
Pubbl/distr/stampa	Hoboken, New Jersey : , : John Wiley & Sons, Inc., , [2023] ©2023
ISBN	1-119-86185-3 1-119-86184-5 1-119-86183-7
Descrizione fisica	1 online resource (752 pages)
Disciplina	621.3822
Soggetti	Signal processing - Digital techniques Image processing - Digital techniques Machine learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	"Machine Learning Algorithms for Signal and Image Processing aid the reader in designing and developing real-world applications of societal and industrial needs using advances in machine learning to aid and enhance speech signal processing, image processing, computer vision, biomedical signal processing, text processing, etc. It includes signal processing techniques applied for pre-processing, feature extraction, source separation, or data decompositions to achieve machine learning tasks. It will advance the current understanding of various machine and deep learning techniques in terms of their ability to improve upon the existing solutions with accuracy, precision rate, recall rate, processing time or otherwise. The most important is, it aims to bridge the gap among closely related fields of information processing including ML, DL, DSP, Statistics, Kernel Theory and others. It also aims to bridge the gap between academicians, researchers and industry to provide new technological solutions for healthcare, speech recognition, object detection and classification, etc. It will improve upon the current understanding about data collection and data preprocessing of signals

and images for various applications, implementation of suitable machine and deep learning techniques for variety of signals and images, as well, possible collaboration to ensure successful design according to industry standards by working in a team. It will be helpful for researchers and designers to find out key parameters for future work in this area. The researchers working on machine and deep learning techniques can correlate their work with real-life applications of smart sign language recognition system, healthcare, smart blind reader system, text to image generation or vice-versa, etc. The book will be of interest to both beginners working in the field of machine and deep learning used for signal and image analysis, interdisciplinary in its nature"--

---