

Machine Learning Methods for Signal, Image and Speech Processing

Editors:

Meerja Akhil Jabbar, Vardhaman College Of Engineering, India
Kantipudi MVV Prasad, Symbiosis Institute of Technology, India
Sheng-Lung Peng, National Dong Hwa University, Taiwan
Mamun Bin Ibne Reaz, Universiti Kebangsaan, Malaysia
Ana Maria Madureira, Interdisciplinary Studies Research Center, Portugal

The signal processing (SP) landscape has been enriched by recent advances in artificial intelligence (AI) and machine learning (ML), yielding new tools for signal estimation, classification, prediction, and manipulation. Layered signal representations, nonlinear function approximation and nonlinear signal prediction are now feasible at very large scale in both dimensionality and data size. These are leading to significant performance gains in a variety of long-standing problem domains like speech and Image analysis. As well as providing the ability to construct new classes of nonlinear functions (e.g., fusion, nonlinear filtering).

This book will help academics, researchers, developers, graduate and undergraduate students to comprehend complex SP data across a wide range of topical application areas such as social multimedia data collected from social media networks, medical imaging data, data from Covid tests etc. This book focuses on AI utilization in the speech, image, communications and virtual reality domains.

MACHINE LEARNING METHODS FOR SIGNAL, IMAGE AND SPEECH PROCESSING

M.A. Jabbar
Kantipudi MVV Prasad
Sheng-Lung Peng
Mamun Bin Ibne Reaz
Ana Madureira



River Publishers Series in Signal, Image and Speech Processing

ISBN: 9788770223690

e-ISBN: 9788770223683

Available From: December 2021

Price: € 95.00 \$ 130.00

KEYWORDS:

Signal processing, Machine learning, Deep learning, Image Processing, Speech Processing

