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Dictionary Learning with Applications to Audio Signals : Over-complete representations and their use in audio processing

By Daniele Barchiesi

SPS Okt 2014, 2014. Taschenbuch. Condition: Neu. This item is printed on demand - Print on Demand Neuware - Over-complete transforms have recently become the focus of a wide wealth of research in signal processing, machine learning, statistics and related fields. Their great modelling flexibility allows to find sparse representations and approximations of data that in turn prove to be very efficient in a wide range of applications. Sparse models express signals as linear combinations of a few basis functions called atoms taken from a so-called dictionary. Finding the optimal dictionary from a set of training signals of a given class is the objective of dictionary learning and the main focus of this thesis. The experimental evidence presented here focuses on the processing of audio signals, and the role of sparse algorithms in audio applications is accordingly highlighted. 196 pp. Englisch.

Reviews

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