Journal club report

July 17, 2017

We discussed Tensorization and structured tensors

The main idea of this paper:

This chapter propose several tensorization methods, which mainly obtained through three aspects:

1) Rearrangement (reshape).

2) Alignment of data blocks/epochs.

3) Data augmentation(Toeplitz and Hankel tensors).

Main discussion:

1) The definition and construction of Toeplitz/Hankel tensor, Convolution Tensor.

2) Longxi represent the blind source separation in details.

3) Image denoising by learning local structures, main idea is generating tensors form local blocks(patches) which are similar or closely related.