数学与系统科学研究院 计算数学所网络学术报告

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报告题目:

CS Decomposition and GSVD for Tensors Based on the T-Product

邀请人: 白中治 研究员

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Abstract:

We derive the CS decomposition for orthogonal tensors (T-CSD) and the generalized singular decomposition for two tensors (T-GSVD) via the T-product. The structures of the two decompositions are analyzed in detail and are consistent with those for matrix cases. Then the corresponding algorithms are proposed. The T-GSVD can be used to give the explicit expression for the solution of the tensor Tikhonov regularization. Numerical demonstrate examples the effectiveness of T-GSVD in solving image restoration problems.

欢迎大家参加!