

國立中山大學應用數學系

學術演講

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講 題：Non-negative tensor eigenvalue problem and its applications

時 間：2016/11/22（星期二）16:10 ~ 17:00

地 點：理學院四樓理 SC 4011 室

茶 會：15:30 於理 SC 4010 室（系辦公室）

摘要

In this talk, we will introduce an inverse iterative method for computing the Perron pair of an irreducible nonnegative tensor. The method involves the selection of a parameter θ_k in the k th iteration. For every positive starting vector, the method converges quadratically and is positivity preserving in the sense that the vectors approximating the Perron vector are strictly positive in each iteration. It is also shown that $\theta_k=1$ near convergence. The computational work of the proposed method is much less than that of the Ng--Qi--Zhou algorithm, which is linearly convergent for essentially positive tensors.

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