

Eigenvalue decomposition of a symmetric matrix over the symmetrized max-plus algebra

Title	Eigenvalue decomposition of a symmetric matrix over the symmetrized max-plus algebra
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Abstract	This paper discusses topics in the symmetrized max-plus algebra. In this study, it will be shown the existence of eigenvalue decomposition of a symmetric matrix over symmetrized max-plus algebra. Eigenvalue decomposition is shown by using a function that corresponds to the symmetrized max-plus algebra with conventional algebra. The result obtained is the existence of eigenvalue decomposition of a symmetric matrix over symmetrized max-plus algebra and its application to determine eigenvalues and eigenvectors.
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