Winkelmann, Jan; Springer, Paul; Di Napoli, Edoardo
ChASE: Chebyshev accelerated subspace iteration eigensolver for sequences of Hermitian eigenvalue problems. (English) Zbl 1471.65024
ACM Trans. Math. Softw. 45, No. 2, Article No. 21, 34 p. (2019).

MSC:
65F15 Numerical computation of eigenvalues and eigenvectors of matrices

Keywords:
elemental library; subspace iteration; eigenvector correlation; optimized polynomial degree; spectral density

Software:
ScaLAPACK; SLEPc; PRIMME; EVSL; Anasazi; LAPACK; Trilinos; zPARES; ELPA; ARPACK; FLEUR; ChASE

Full Text: DOI arXiv