

PPAM 2024 (<http://ppam.edu.pl>)

Special Session on Parallel SVD/EVD and its Application in Matrix Computations.

SVD (singular value decomposition) and EVD (eigenvalue decomposition) algorithms belong to the fundamental methods of computational linear algebra and have a strong impact on solving practical problems. They are most frequently used in various HPC applications. This Special Session focuses particularly on efficient algorithms for SVD/EVD from the perspective of its design, convergence, and accuracy. Reports on the implementation experience and results for parallel computing platforms are welcome, as well as approaches for new parallel computing paradigms, e.g., quantum computing.

The following (and related) items are of interest:

- efficient direct methods for SVD/EVD/NMF decompositions of large matrices
- Jacobi-based methods for SVD/EVD, their design and analysis
- application of sequential/parallel SVD/EVD for solving problems arising in scientific and technical applications
- SVD/EVD algorithms for advanced parallel computing paradigms (e.g. quantum computing, cloud computing).

Session organizer:

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and

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High-quality original papers are invited to the Special Session. Papers will be refereed and accepted based on their scientific merit and relevance to the Special Session topics. Accepted and presented papers will be included in the proceedings of PPAM 2024 and published after the conference by Springer-Verlag in the LNCS series. Papers must be no more than 14 pages (LNCS style).

Authors should submit papers (as PDF files) through the PPAM 2024 site (track: Special Session on Parallel SVD/EVD and its Application in Matrix Computations). In case of any problems please contact the Special Session organizer.

Dates:

Submission of Papers: ~~April 30, 2024~~ **May 17, 2024**

Notification of Acceptance: ~~June 7, 2024~~ **June 21, 2024**

CaJmera-Ready Papers: Nov. 2, 2024