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Research interest: Numerical linear algebra, Parallel Numerical Algorithms

Recent publications:

- [1] Vjeran Hari, Sanja Singer, Saša Singer, „Block J-Jacobi Method for Hermitian Matrices“, **Linear Algebra Appl.**, **444** (2014), 1 – 27.
- [2] Sanja Singer, „Orthosymmetric Block Rotations“, **Electron. J. Linear Algebra**, **23** (2012), 306 – 326.
- [3] Sanja Singer, „Perturbation Bounds for Singular Values of Matrices eith Singletons“, **J. Math. Inequal.**, **6** (2012), 601 – 613.
- [4] Sanja Singer, Saša Singer, Vedran Novaković, Aleksandar Ušćumlić, Vedran Dunjko „Novel Modifications of Parallel Jacobi Algorithms“, **Numer. Alg.** **59** (2012), 1 – 27.
- [5] Sanja Singer, Saša Singer, Vedran Novaković, Davor Davidović, Krešimir Bokulić, Aleksandar Ušćumlić „Three-Level Parallel J-Jacobi Algorithms for Hermitian Matrices“, **Appl. Math. Comput.**(2012), 5704 – 5725.

Selected publications:

- [1] Vedran Novaković, Sanja Singer „A GPU-based hyperbolic SVD algorithm“, **BIT** **51** (2011), 1009 – 1030.
- [2] Vjeran Hari, Sanja Singer, Saša Singer „Block-Oriented J-Jacobi Methods for Hermitian Matrices“, **Linear Algebra Appl.**, **433** (2010), 1491 – 1512.
- [3] Sanja Singer, Saša Singer „Orthosymmetric Block Reflectors“, **Linear Algebra Appl.**, **429** (2008), 1354 – 1385.
- [4] Sanja Singer „Indefinite QR Factorization“, **BIT** **46** (2006), 141 – 161.
- [5] Sanja Singer, Saša Singer „Rounding-Error and Perturbation Bounds for the Indefinite QR Factorization“, **Linear Algebra Appl.** **309** (2000), 103 – 119.