

Ivan Slapničar

Professor, University of Split, Faculty of Electrical Engineering,
Mechanical Engineering and Naval Architecture
PhD (Dr. rer. nat.) Fernuniversität Hagen, Germany, 1992.

Research interest: numerical linear algebra, matrix analysis, linear algebra, numerical analysis, data mining

Recent publications:

- [1] 1. Jakovčević Stor, Nevena; Slapničar, Ivan; Barlow, Jesse L.; [Accurate eigenvalue decomposition of real symmetric arrowhead matrices and applications](#). // *Linear algebra and its applications*. **464** (2015) 62-89
- [2] Slapničar, Ivan. [On the spectra of generalized Fibonacci and Fibonacci-like operators](#). // *Operators and Matrices*. **6** (2012) 49-62
- [3] Slapničar, Ivan. [Symmetric Matrix Eigenvalue Techniques](#) // CRC Handbook of Linear Algebra / Hogben, Leslie (ur.). Sjedinjene Američke Države : CRC Press, 2013. Str. 55:1-23.
- [4] Truhar, Ninoslav; Slapničar, Ivan. [Relative residual bounds for indefinite Hermitian matrices](#). // *Linear Algebra and its Applications*. 417 (2006) 466-477
- [5] Barlow, Jesse; Erbay, Hasan; Slapničar, Ivan. [An alternative algorithm for refinement of ULV decomposition](#). // *SIAM Journal on Matrix Analysis and Applications*. 27 (2005) 198-211

Selected publications:

- [1] Slapničar, Ivan. [Symmetric Matrix Eigenvalue Techniques](#) // CRC Handbook of Linear Algebra / Hogben, Leslie (ur.). Sjedinjene Američke Države : CRC Press, 2013. Str. 55:1-23.
- [2] Barlow, Jesse; Erbay, Hasan; Slapničar, Ivan. [An alternative algorithm for refinement of ULV decomposition](#). // *SIAM Journal on Matrix Analysis and Applications*. 27 (2005) , 1; 198-211
- [3] Slapničar, Ivan. [Highly accurate symmetric eigenvalue decomposition and hyperbolic SVD](#). // *Linear Algebra and its Applications*. 358 (2003) ; 387-424
- [4] Demmel, James; Gu, Ming; Eisenstat, Stanley; Slapničar, Ivan; Veselić, Krešimir; Drmač, Zlatko. [Computing the Singular Value Decomposition with High Relative Accuracy](#). // *Linear algebra and its applications*. 299 (1999)
- [5] Veselić, Krešimir; Slapničar, Ivan. [Floating-point perturbations of Hermitian matrices](#). // *Linear Algebra and its Applications*. 195 (1993) ; 81-116