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Research interest: Numerical Linear Algebra, Control theory, Linear Matrix Equations, Linear Vibrating Systems, Matrix Perturbation Theory.

Recent publications:

[1] N. Truhar, L. Grubišić, S. Miodragović, *The Rotation of Eigenspaces of Perturbed Matrix Pairs II*, **Linear and multilinear algebra**. 68/8 (2014), 1010-1031.
[2] E. Mengi, D. Kressner, I. Nakić, N. Truhar, *Generalized Eigenvalue Problems with Specified Eigenvalues*, **The IMA Journal of Numerical Analysis.** 34/2 (2014), 480-501
[3] P. Benner, Z. Tomljanović, N. Truhar, *Optimal Damping of Selected Eigenfrequencies Using Dimension Reduction*, **Numerical Linear Algebra with Applications**. 20/1 (2013), 1-17.
[4] I. Nakić, Z. Tomljanović, N. Truhar, *Optimal Direct Velocity Feedback*, **Applied mathematics and computation.** 225 (2013), 590-600.
[5] I. Kuzmanović, N. Truhar, *Optimization of the solution of the parameter-dependent Sylvester equation and applications*, **Journal of Computational and Applied Mathematics**, 237/1 (2013), 136-144.

Selected publications:

[1] R. Li, Y. Nakatsukasa, N. Truhar, S. Xu, *Perturbation of Partitioned Hermitian Generalized Eigenvalue Problem*, **SIAM Journal on Matrix Analysis and Applications.**32/2 (2011), 642-663
[2] NinoslavTruhar, KrešimirVeselić, *An efficient method for estimating the optimal dampers' viscosity for linear vibrating systems using Lyapunov equation*. **SIAM Journal on Matrix Analysis and Applications**. 31 (2009).
[3] NinoslavTruhar, KrešimirVeselić, *Bounds on the trace of a solution to the Lyapunov equation with a general stable matrix*, **Systems and Control Letters** 56 (2007) , 7-8; 493-503
[4] N. Truhar *„An efficient algorithm for damper optimization for linear vibrating systems using Lyapunov equation"* **Journal of Computational and Applied Mathematics**. **172** (2004) 1; 169-182.
[5] I. Slapničar, N. Truhar *„Relative perturbation theory for hyperbolic singular value problem"* **Linear Algebra and its Applications 358** (2003) , 1-3; 367-386.