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PhD University of Zagreb, 2011

Research interest: Numerical linear algebra; Matrix Equations; Damping optimization in mechanical systems; Control Theory

Recent publications:

- [1] N. Truhar, Z. Tomljanović, K. Veselić, *Damping optimization in mechanical systems with external force*, **Applied mathematics and computation** **250** (2015), 270-279
- [2] P. Benner, Z. Tomljanović, N. Truhar, *Optimal Damping of Selected Eigenfrequencies Using Dimension Reduction*, **Numerical Linear Algebra with Applications** **20/1** (2013), 1-17
- [3] I. Nakić, Z. Tomljanović, N. Truhar, *Optimal Direct Velocity Feedback*, **Applied mathematics and computation** **225** (2013), 590-600
- [4] I. Kuzmanović, Z. Tomljanović, N. Truhar, *Optimization of material with modal damping*, **Applied mathematics and computation** **218** (2012), 7326-7338
- [5] P. Benner, Z. Tomljanović, N. Truhar, *Dimension reduction for damping optimization in linear vibrating system*, **Journal of Applied Mathematics and Mechanics** **91/3** (2011), 179-191

Selected publications:

- [1] P. Benner, Z. Tomljanović, N. Truhar, *Optimal Damping of Selected Eigenfrequencies Using Dimension Reduction*, **Numerical Linear Algebra with Applications** **20/1** (2013), 1-17
- [2] I. Nakić, Z. Tomljanović, N. Truhar, *Optimal Direct Velocity Feedback*, **Applied mathematics and computation** **225** (2013), 590-600
- [3] P. Benner, Z. Tomljanović, N. Truhar, *Dimension reduction for damping optimization in linear vibrating system*, **Journal of Applied Mathematics and Mechanics** **91/3** (2011), 179-191
- [4] Z. Tomljanović, N. Truhar, K. Veselić, *Optimizing a damped system - a case study*, **International Journal of Computer Mathematics** **88/7** (2011), 1533-1545
- [5] N. Truhar, Z. Tomljanović, R.-C. Li, *Analysis of the solution of the Sylvester equation using low-rank ADI with exact shifts*, **Systems and Control Letters** **59** (2010), 248-257