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A special session on

Special mini-symposium on Numerical methods in Mechanics, Geomechanics and Biomechanics

organized by Prof. J. Nedoma and Prof. R. Beauwens

Contributions:

1. J. Nedoma, Z. Kestranek Jr., Z. Klezl, M. Bartos, Z. Kestranek
Numerical Modelling in Spinal Biomechanics

2. M. Magolu monga Made, R. Beauwens
Imaginary Diagonal Relaxations for Highly Indefinite Linear Systems

3. Svetozar D. Margenov
Displacement Decomposition-MIC(0) Preconditioning of Linear Elasticity Non-conforming FEM Problems

4. Radim Blaheta, Petr Byczanski, Roman Kohut
Iterative Methods for Composite Grid Finite Element Analyses

5. S.Petrova, R.H.W.Hoppe
Applications of the Newton Interior-point Method for Maxwell's Equations

6. J. Berrocal, Z. Kestranek, J. Nedoma
Numerical Modelling of Tectonic Evolution of the Wadati-Benioff Zone Beneath the Andean Region

7. Z. Kestranek
h-version of the FEM for the Contact Problem in Elasticity

8. O. Axelsson, S. Margenov, A. Padiy
On the convergence of the AMLI method

9. O. Axelsson, Maya Neytcheva Ben Polman, Andrey Kucherov, Igor Kaporin, Igor Konshin
Comparison of Algebraic Solution Methods on a Set of Benchmark Problems in Linear Elasticity

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