

- 11:35 *Structural Optimization of Large-Displacement, Path-Following Compliant Mechanisms with Optimally Designed Flexure Hinges*

Frank Dirksen, Rolf Lammering, Tarek I. Zohdi

- 11:55 *Multicriteria Optimal Design of Multibody Systems by Using Evolutionary Strategies*

Selim Datoussaid, Jérôme Noël, Thierry Descamps

GS-CoM.5 Computational Mechanics
Saal Steiermark

Tuesday, 14:45 - 15:45
Chair: H. Wu

- 14:45 *Molecular Configuration and Flow of Water in Graphene Nanochannels*

Hengan Wu

- 15:05 *Segregation in Horizontally Vibrated Granular Mixture*

Ashish Bhateja, Ishan Sharma, Jayant K. Singh

- 15:25 *Numerical Modeling of the Boundary Value Problems Using the R-Function Method and Atomic Basis Functions*

Nives Brajčić, Blaž Gotovac, Vedrana Kozulić

GS-CoM.6 Computational Mechanics
S3

Tuesday, 14:45 - 15:45
Chair: K. Bagi

- 14:45 *Computational Comparison of the Mechanical Behavior of Two Stent-Grafts within a Tortuous Abdominal Aortic Aneurysm*

Nicolas Demanget, **Pierre Badel**, Stéphane Avril, Laurent Orgéas, Christian Geindreau, Jean-Noel Albertini, Jean-Pierre Favre

- 15:05 *Heat Generation and Residual Stresses Analysis in External Cylindrical Grinding Process*

Haifa Sallem, Hédi Hamdi

- 15:25 *DEM Analysis of Masonry Domes with Oval Plan*

József Simon, **Katalin Bagi**

GS-CoM.7 Computational Mechanics
Saal Steiermark

Tuesday, 16:00 - 18:00
Chair: J. Eberhardsteiner, G. Meschke

- 16:00 *Influence of Different Knot Groups on Effective Mechanical Properties of Solid-Wood Based Products Determined by Means of 3D Finite-Element Simulations*

Markus Lukacevic, Karin de Borst, Josef Füssl, **Josef Eberhardsteiner**

- 16:20 *Jump Conditions at Discontinuities in Solids: Numerical Implementation*

Arkadi Berezovski

- 16:40 *Residual Stress Analysis of an Oil Distillation Tower's Lining with Sysweld*

Davi Mário Cunha de Souza, Diego Jullian de Moraes Lopes, Danielle Mariano Espíndola da Silva, **Francisco Ilo Bezerra Cardoso**

- 17:00 *An Edge-Based Imbricate Finite Element Method*

Fabien Cazes, Günther Meschke