



Day 3, June 20, 2025

Day 3, June 20 09:30 - 10:15	Plenary Lecture Dimension Reduction in Elasticity - R. Kienzler, <i>University of Bremen, Germany</i> , (10ICSSM- Kienzler) Room: 611 FME, Chair: Prof Srboljub Simić
10:15 - 10:25	Short technical break
10:25 - 11:45	Parallel Sessions
Day 3, June 20 10:25 - 11:25	Session C, Room: FME 608 B Chairs: Šalinic S., <i>Faculty of Mechanical and Civil Engineering in Kraljevo, University of Kragujevac, Serbia</i>

3 papers (15 min + 5 min for comments every):

- C.10 - **Mode orthogonality conditions of spatial vibrations of an Euler-Bernoulli cantilever beam with an eccentric rigid tip load** – Veg M., Tomovic A., Obradovic A., Salinic S., Selyutskiy Y. (10ICSSM - Veg et al. - C)
- C.11 - **Friction Stir Welding – Thermo-mechanical quantities and energy dissipation for different joint shapes** – Veljic D., Medjo B., Radovic N., Radosavljevic Z., Mihajlovic D., Sedmak A. (10ICSSM - Veljic et al. - C)
- C.12 - **Generalized Einstein tensor for euclidean surfaces with mechanical point of view** – Vesic N., Slavkovic K. (10ICSSM - Vesic et al. - C)

Day 3, June 20 10:25 - 11:25	Session D, Room: FME 607 A Chairs: Petronijevic P., <i>Faculty of Civil Engineering and Architecture, University of Niš, Serbia</i>
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3 papers (15 min + 5 min for comments every):

- D.15 - **Inverse kinematics solutions of robotic manipulators using Paden-Kahan subproblems and screw theory**– Todorovic V., Nesic N., Lazarevic M. (10ICSSM - Todorovic et al. - D)
- D.16 - **Analysis of steel plate girders subjected of patch loading with geometrical and structural imperfections** – Turnic D., Spasojevic Surdilovic M., Zivkovic S., Petrovic Z., Petronijevic P. (10ICSSM - Turnic et al. - D)
- D.10 - **Different types of the deformed exponential functions in the statistical mechanics** – Rajkovic P., Marinkovic S., Stankovic M. (10ICSSM - Rajkovic et al. - D)

Day 3, June 20 10:25 - 11:45	Session M1, Room: FME 607 B Chairs: Atansovska I., MISASA, <i>Belgrade, Serbia</i> , Fu Z., <i>College of Mechanics and Engineering Science, Hohai University, China</i>
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4 papers (15 min + 5 min for comments every):

- M.1.2 - **Shear striping phenomena in viscoelastic liquid crystal elastomers**– Cajic M., Karlicic D., Paunovic S. (10ICSSM - Cajic et al. - M1)
- M.1.4 - **A finite electro-viscoelastic model for nematic liquid crystal elastomers** – Karlicic D., Cajic M., Paunovic S. (10ICSSM - Karlicic et al. - M1)



- M.1.6 - **Application of soft MREs for magnetically induced actuation with implementation in FEniCSx** – Paunovic S., Karlicic D., Cajic M. (10ICSSM - Paunovic et al. - M1)
- M.1.7 - **Inertial amplification effects on wave dispersion in metastructures with elastic and rigid segments** – Rosic N., Karlicic D., Lazarevic M. (10ICSSM - Rosic et al. - M1)

Day 3, June 20 10:25 - 11:45	Session M2, Room: FME 608 A Chairs: Ilić D. , Faculty of Mechanical Engineering, University of Belgrade, Belgrade, Serbia and Bikić S. , Faculty of Agriculture, University of Novi Sad, Novi Sad, Serbia
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4 papers (15 min + 5 min for comments every):

- M.2.5 - **A short discussion on the circulation in the turbulent swirling flow in the axial fan jet** – Jankovic N., Cantrak Dj, Ilic D. (10ICSSM - Jankovic et al. - M2)
- M.2.7 - **Numerical study of natural convection in a square enclosure with a circular cylinder at different vertical positions** – Milosavljevic N., Radenkovic D. (10ICSSM - Milosavljevic and Radenkovic - M2)
- M.2.3 - **Analysis of turbulent swirling flow in a pipe downstream of an axial fan impeller: experimental and numerical approach** – Bulajic M., Jankovic N., Lecic L., Cantrak Dj. (10ICSSM - Bulajic et al. - M2)
- M.2.1 - **PIV experiment in a scaled operating room with laminar airflow ventilation** – Angiero T., Discetti S., Ianiro A. (online) (10ICSSM - Angiero et al. - M2)

11:45 - 12:15	Coffee Break (At the lobby area of sixth floor FME)
Day 3, June 20 12:15 - 12:40	Closing Ceremony Room: 611 FME