



Technical programme of the 10th ICSSM

Day 1, June 18, 2025

08:00 - 09:30	Registration At the registration desk in the Scientific Technology Park (STP)
09:30 - 10:10	Opening Ceremony <ul style="list-style-type: none"> • Prof. Srboljub Simić, President of SSM • Prof. Vladimir Stojanović, President of the Organizing Committee • Milan Randelović, PhD, director of the Science and Technology Park (STP) in Niš • Prof. Nenad Filipović, Director of the Science Fund of the Republic of Serbia • A representative of the Ministry of Science, Technological Development and Innovation of the Republic of Serbia • Vladimir Dragović, Editor-in-Chief of journal Theoretical and Applied Mechanics
10:15 - 11:00	Plenary Lecture A robust shell finite element and nonlocal approaches in mechanics - Prof. J.N. Reddy, <i>Texas A&M University, College Station, Texas, USA (10ICSSM-Reddy)</i> Room: Ceremonial Hall STP, Chair: Prof. Vladimir Stojanović
11:00 - 11:15	Short technical break
11:15 - 12:00	Plenary Lecture Resolution of the twentieth century conundrum in elastic stability – Prof. I. Elishakoff, <i>Florida Atlantic University, Boca Raton, Florida, USA, (10ICSSM-Elishakoff)</i> , Room: Ceremonial Hall STP, Chair: Prof. Julijana Simonović
12:00 - 13:10	Buffet lunch (At the foyer of the Scientific Technology Park)
13:10 - 13:55	Plenary Lecture Modeling of contact fatigue fracture of deformable bodies in frictional interaction – Prof. I. Goryacheva, <i>Ishlinsky Institute for Problems in Mechanics RAS, Moscow, Russia, (10ICSSM-Goryacheva)</i> Room: Ceremonial Hall STP, Chair: Prof. Katica (Stevanović) Hedrih
14:00 - 15:00	Session for Candidates for “Rastko Stojanović Award” Room: Ceremonial Hall STP, Chair: Prof. Ivan Pavlović <ul style="list-style-type: none"> • C.5 - Comparative vibration stability analysis of a complex moving object with two novel stabilizers – <i>Milic D. (10ICSSM-Milic-C)</i> • B.13 - Infragravity waves – <i>Vrecica T. (10ICSSM-Vrecica-B)</i>
15:00 - 15:30	Coffee Break (transfer from the STP to the FME building)
15:30 - 16:30	Parallel Sessions
Day 1, June 18 15:30 - 16:30	Session A, Room: FME 608 A Chairs: <i>Gajic B., Mathematical Institute SANU, Belgrade, Serbia</i>



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

- A.1 - **On a stability of the beams with and without elastic foundation**– Berecki A., Mihok S., Rehlicki Lukesevic L. (10ICSSM - Berecki et al. - A)
- A.2 - **On the properties of friction to maintain the state of rest of a tripod on a rough surface** – Dosaev M. (10ICSSM - Dosaev-A)
- A.3 - **Bridging mechanics with statistics and geometry** – Dragovic V., Gajic B. (10ICSSM - Dragovic and Gajic - A)

Day 1, June 18 15:30 - 16:30	Session M4, Room: FME 608 B Chairs: <i>Nestorovic T., Mechanics of Adaptive Systems, Ruhr-Universität Bochum, Germany and Simonovic J., Faculty of Mechanical Engineering, University of Nis, Serbia</i>
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3 papers (15 min + 5 min for comments every):

- M.4.1 - **Motion analysis of a single-mass vibro impact system** – Garic Lj, Nesic N., Lekic J., Jovanovic S., Stosovic D. (10ICSSM - Garic et al. - M4)
- M.4.2 - **Asymptotic methods of nonlinear mechanics through a series of scientific projects, magister's and doctoral dissertations: nonlinear phenomena, trigger of coupled singularities and frequencies as bifurcation parameters** – Stevanovic Hedrih K. (10ICSSM - Hedrih (Stevanovic) - M4)
- M.4.4 - **Elliptical, circular orbits and applications** – Mateljevic M. (10ICSSM - Mateljevic - M4)

Day 1, June 18 15:30 - 16:30	Session D, Room: FME 607 A Chairs: <i>Slavkovic N., Faculty of Mechanical Engineering, University of Belgrade, Serbia</i>
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3 papers (15 min + 5 min for comments every):

- D.1 - **Critical temperature of FGM plates resting on elastic foundations using layerwise finite element** – Cetkovic M. (10ICSSM - Cetkovic - D)
- D.2 - **A system engineering approach for robot manipulator design using game engine simulation and computational modelling** – Devic A., Vidakovic J., Slavkovic N., Lazarevic M., Zivkovic N. (10ICSSM - Devic et al. - D)
- D.3 - **Ballistic impact of fragment-simulating projectiles on steel targets: a multi-approach study** – Elek P., Markovic M., Jevtic D., Djurovic R. (10ICSSM - Elek et al - D)

Day 1, June 18 15:30 - 16:30	Session M3, Room: FME 607 B Chairs: <i>Dosaev M., Institute of Mechanics of Lomonosov Moscow State University, Russia</i>
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3 papers (15 min + 5 min for comments every):

- M.3.1 - **Deformation of human chest as an elastic truss**– Alpatov I., Dosaev M., Samsonov V., Vorobyeva E., Dubrov V. (10ICSSM - Alpatov et al. - M3)
- M.3.2 - **Numerical simulations of blood flow in vessels with different geometries** – Antonova N., Xu D. (10ICSSM - Antonova and Xu - M3)
- M.3.3 - **A continuous-time SIS criss-cross model of co-infection in a heterogeneous population** – Choiński M. (10ICSSM - Choinski - M3)

16:30 - 17:00	Coffee Break
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	(At the lobby area of sixth floor FME)
17:00- 18:20	Parallel Sessions
Day 1, June 18 17:00 - 18:25	Session M2, Room: FME 607 A Chairs: Cantrak Dj., Faculty of Mechanical Engineering, University of Belgrade, Belgrade, Serbia and Pei J., National Research Center of Pumps, Jiangsu University, Zhenjiang, Jiangsu Province, China
Day 1, June 18 17:00 - 17:40	Invited lecture M.2.9 - Towards the characterisation of flow perturbation transmission in convergent nozzles affecting free water jet surfaces – Bernhard Semlitsch, TU Wien, Institute of Energy Systems and Thermodynamics, Austria (10ICSSM - Semlitsch - M2)

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

- M.2.10 -**Comparison of noise spectra of the flow past a cylinder computed by different turbulence models** – *Svorcan J., Vilotijevic V. (10ICSSM - Svorcan and Vilotijevic - M2)*
- M.2.2 -**Application of air torque position dampers for airflow measurement** – *Bikic S., Radojcin M., Pavkov I., Debski H., Al Afif R. (10ICSSM - Bikic et al. - M2)*

Day 1, June 18 17:00 - 18:20	Session B, Room: FME 608 A Chairs: Bogdanovic Jovanovic J., Faculty of Mechanical Engineering, University of Nis, Serbia and Kocic M., Faculty of Mechanical Engineering, University of Nis, Serbia
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4 papers (15 min + 5 min for comments every):

- B.1 - **Gas flow blockage in the near-wellbore region: Freshwater stimulation against the salting-out effect** – *Afanasyev A., Grechko S. (10ICSSM - Afanasyev et al. - B)*
- B.2 - **Influence of rotation on drag coefficient and unsteady flow around an NFL ball** – *Begovic V., Miljkovic P., Stamenkovic Z., Kocic M. (10ICSSM - Begovic et al. - B)*
- B.3. - **Iterative procedure for determining meridional streamlines of averaged flow in a turbomachine impeller** – *Bogdanovic Jovanovic J., Stamenkovic Z., Kocic M., Petrovic J. (10ICSSM - Bogdanovic Jovanovic et al. - B)*
- B.9. - **Numerical investigation of fluid mixing in a micromixer using CFD simulations** – *Mirovic M., Begovic V., Miljkovic P., Sreckovic D. (10ICSSM - Mirovic et al. - B)*

Day 1, June 18 17:00 - 18:00	Session M3, Room: FME 607 B Chairs: Antonova N. M., Institute of Mechanics Bulgarian Academy of Sciences, Sofia, Bulgaria
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3 papers (15 min + 5 min for comments every):

- M.3.4 - **The physics of intelligence: can the fermionic mind hypothesis provide a theoretical framework for understanding consciousness?** – *Déli E., Kiss Z. (10ICSSM - Deli and Kiss - M3)*
- M.3.6 - **FSI analysis of parametric stent geometry influence on WSS-induced in-stent restenosis** – *Khairulin A., Kuchumov A. (10ICSSM - Khairulin and Kuchumov - M3)*
- M.3.5 - **Modelling zona pellucida as a thermosensitive polymer under mechanical load** – *Hedrih A., Jovanovic Dj. (10ICSSM - Hedrih and Jovanovic - M3)*

Day 1, June 18 17:00 - 18:00	Session M4, Room: FME 608 B Chairs: Lazarevic M., Faculty of Mechanical Engineering, University of Belgrade, Serbia
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and **Simonovic J.**, Faculty of Mechanical Engineering, University of Nis, Serbia

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

- M.4.6 - **Model identification of a locally nonlinear structure** – Nestorovic T., Ul-Hasnain A., Oveisi A. (10ICSSM - Nestorovic et al. - M4)
- M.4.7 - **Nonlinear pushover analysis: Assessment of a moment-resisting steel frame** – Slavkovic K., Zoric A., Trajkovic Milenkovic M., Petronijevic P. (10ICSSM - Slavkovic et al. - M4)
- M.4.5 - **Nonlinear vibration of a platform system with non-ideal motor** – Nesic N., Simonovic J., Lima J., Balthazar J.M., Tusset A.M. (10ICSSM - Nesic et al. - M4)

Day 2, June 19, 2025

Day 2, June 19 09:00 - 09:45	Plenary Lecture Dynamic Stability of Structures under Multi-Hazards – Prof. J. Deng, <i>Lakehead University, Thunder Bay, Ontario, Canada (10ICSSM- Deng)</i> Room: 611 FME, Chair: Prof. Vladimir Dragović
09:45 - 10:00	Short technical break
Day 2, June 19 10:00 - 10:45	Plenary Lecture Strain-gradient crystal plasticity models for predicting microstructure, length-scale, and strain path sensitive deformation behavior of polycrystalline metals – M. Knezevic, <i>University of New Hampshire, USA, (10ICSSM- Knezevic)</i> Room: 611 FME, Chair: Prof. Marina Trajković Milanković
10:45 - 11:15	Coffee Break
11:15 - 12:45	Parallel Sessions
Day 2, June 19 11:15 - 12:45	Session B, Room: FME 608 A Chairs: <i>Madjarevic D, Faculty of Technical Science, University of Novi Sad, Serbia</i>

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

- B.4 - **Numerical solutions of compressible gas flow in microtube in the continuum regime** – Guranov I, Milicev S., Stevanovic N. (10ICSSM - Guranov et al. - B)
- B.5 - **Magnetohydrodynamic (MHD) flow and heat transfer of electrically conducting micropolar fluid in a parallel plate channel with induced magnetic field** – Kocić M., Stamenkovic Z., Bogdanovic Jovanovic J., Petrovic J., Nikodijevic Djordjevic M. (10ICSSM - Kocić et al. - B)
- B.6 - **A macroscopic multi-temperature model with transport properties in comparison with kinetic models in the context of binary mixtures** – Madjarevic D. (10ICSSM - Madjarevic - B)
- B.7 - **On the modelling of korteweg fluids** – Matic Z., Simic S. (10ICSSM - Matic and Simic - B)

Day 2, June 19 11:15 - 12:45	Session C, Room: FME 608 B Chairs: <i>Dunic V, Faculty of Engineering, University of Kragujevac, Serbia</i>
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4 papers (15 min + 5 min for comments every):



- C.1 - **Phase-field modeling of concrete: numerical simulation and experimental verification** – Dunic V., Zivkovic M., Rakic D., Milovanovic V. (10ICSSM - Dunic et al. - C)
- C.2 - **Prediction of free-edge stresses in composite laminates using full-layerwise-theory-based finite elements** – Jovic E., Zivkovic M., Marjanovic M. (10ICSSM - Jovic et al. - C)
- C.3 - **An estimate of penetration depth of rigid rods through materials susceptible to microcracking: Part 1 – theory** – Mastilovic S. (10ICSSM - Mastilovic - C-1)
- C.4. - **An estimate of penetration depth of rigid rods through materials susceptible to microcracking: Part 2 – validation and parameter sensitivity** – Mastilovic S. (10ICSSM - Mastilovic - C-2)

Day 2, June 19 11:15 - 12:45	Session D, Room: FME 607 A Chairs: Lazarevic M. , Faculty of Mechanical Engineering, University of Belgrade, Serbia and Pavlovic I. , Faculty of Mechanical Engineering, University of Niš, Serbia
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4 papers (15 min + 5 min for comments every):

- D.4. - **Trapezoidal control for prevention of unwanted vibrations of mechanical systems** – Formalskii A., Selyutskiy Y. (10ICSSM - Formalskii and Selyutskiy - D)
- D.5. - **Motion analysis of a vibratory conveyor's trough during its operation** – Ilic U., Lazarevic M., Veg E., Despotovic Z. (10ICSSM - Ilic - D)
- D.6. - **PSO-based resonant controller for trajectory tracking of robot manipulator** – Mandic P., Lazarevic M., Sekara T. (10ICSSM - Mandic et al-D)
- D.12 - **Motion control of a copter with a slung load partially filled with liquid** – Selyutskiy Y., Lokshin B., Holub A. (10ICSSM - Selyutskiy et al. - D)

Day 2, June 19 11:15 - 13:05	Session M1, Room: FME 607 B Chairs: Paunović S. , MISASA, Belgrade, Serbia and Liang Y. , College of Mechanics and Engineering Science, Hohai University, Nanjing, China
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5 papers (15 min + 5 min for comments every):

- M.1.1 - **An overview of coupled mechanical problems including contact phenomena solved by FEA** – Atanasovska I. (10ICSSM - Atanasovska - M1)
- M.1.3 - **Machine-learning-based optimization design of combined seismic metamaterials** – Fu Z., Ding Y., Chen H. (10ICSSM - Fu et al.- M1)
- M.1.8 - **Upscaling anomalous transport in fractured media using fractional advection-dispersion equation model** – Sun H.G. (10ICSSM - Sun - M1)
- M.1.5 - **Simulation of thermal field in mass concrete structures with cooling pipes by the localized meshless method** – Lin J., Hong Y.X. (10ICSSM - Lin and Hong- M1)
- M.1.9- **Data-driven diffusion law for multiscale dynamics in granular materials via an improved deep physical symbolic regression**– Yan S., Liang Y. (10ICSSM - Yan and Liang - M1)

Day 2, June 19 12:45 - 14:00	Buffet lunch (At the lobby area of sixth floor FME)
13:15-14:00	Sponsor's Presentation (At the lobby area of sixth floor FME)



	Prager Elektronik, Wolkersdorf, Austria https://www.prager-elektronik.at/en/
Day 2, June 19 14:00 - 14:45	Plenary Lecture Global Nonlinear Dynamics in the Analysis and Safety of Multistable Dynamical Systems – P. B. Gonçalves, <i>Pontifical Catholic University of Rio de Janeiro, Brasil (10ICSSM- Gonçalves)</i> Room: 611 FME, Chair: Dr Anđelka Hedrih
14:50 - 16:10	Parallel Sessions
Day 2, June 19 14:50 - 16:10	Session B, Room: FME 608 A Chairs: <i>Petrovic J, Faculty of Mechanical Engineering, University of Niš, Serbia and Kocic M, Faculty of Mechanical Engineering, University of Niš, Serbia</i>

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

- B.10 - **Particle dynamics in inertial microfluidics: review of forces and channel design principles** – *Oluski N., Zivkov A., Kozomora V., Bukurov M., Tasin S. (10ICSSM - Oluski et al. - B)*
- B.11 - **EMHD convection of a trihybrid nanofluid through a porous medium in a vertical channel with thermal radiation** – *Petrovic J., Nikodijevic Djordjevic M., Kocic M., Bogdanovic Jovanovic J., Stamenkovic Z. (10ICSSM - Petrovic et al-B)*
- B.12 - **Stability analysis of the generalized washburn equation**– *Rapajic I., Simic S. (10ICSSM - Rapajic and Simic - B)*
- B.14 - **Numerical simulation of isothermal rarefied gas flow between two plates** – *Vulicevic P., Milicev S., Stevanovic N. (10ICSSM - Vulicevic et al. - B)*

Day 2, June 19 14:50 - 16:10	Session C, Room: FME 608 B Chairs: <i>Tomovic A, Faculty of Mechanical Engineering, University of Belgrade, Serbia and Pavlovic I, Faculty of Mechanical Engineering, University of Niš, Serbia</i>
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4 papers (15 min + 5 min for comments every):

- C.6 - **Energy based fatigue damage model** – *Perovic Z., Coric S., Koprivica M. (10ICSSM - Perovic et al. - C)*
- C.7 - **Vibration characteristics of 3D printed stepped cantilever beam** – *Pjevic M., Tomovic A., Veg M., Zoric N., Popovic M. (10ICSSM - Pjevic et al. - C)*
- C.8 - **Vibration characteristics of an optimized cantilever beam** – *Tomovic A., Pjevic M., Veg M., Obradovic A., Mitrovic Z. (10ICSSM - Tomovic et al. - C)*
- C.9 - **Predictive reanalysis in structural dynamics** – *Trisovic N., Mankovits T., Petrovic A. (10ICSSM - Trisovic et al. - C)*

Day 2, June 19 14:50 - 16:10	Session D, Room: FME 607 A Chairs: <i>Simic V, Institute for Information Technologies, University of Kragujevac, Serbia</i>
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4 papers (15 min + 5 min for comments every):

- D.11 - **Truss structure optimization using particle swarm optimization with direct FEM coupling** – *Ristic O., Trisovic N. (10ICSSM - Ristic and Trisovic - D)*
- D.8 - **Data-driven nonlinear modelling of recycled aggregate concrete-filled steel tube columns** – *Nikolic J., Tosic N., Kostic S. (10ICSSM - Nikolic et al. - D)*



- D.9 - **Design and experimental verification of the composite blade of the main rotor of an unmanned helicopter** – Radulovic R., Milic M. (10ICSSM - Radulovic and Milic - D)
- D.17 - **ILC-MPC controller for robotic manipulators based on the ultra-local model**– Zivkovic N., Lazarevic M., Vidakovic J., Mandic P. (10ICSSM - Zivkovic et al. - D)

Day 2, June 19 14:50 - 16:10	Session M2, Room: FME 607 B Chairs: Svorcan J. , Faculty of Mechanical Engineering, University of Belgrade, Belgrade, Serbia and Semlitsch B. , Institute of Energy Systems and Thermodynamics, TU Wien, Vienna, Austria
Day 2, June 19 14:50 - 15:30	Invited lecture M.2.4 - Approaching a modified swarm intelligence in hydraulic optimization of an inline pump , Xingcheng Gan, Coauthors: Prof. Ji Pei, Assoc. Prof. Wenji Wang, Prof. Jia Chen and Prof. Shouqi Yuan, National Research Center of Pumps, Jinagsu University, China (10ICSSM - Gan - M2)

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

- M.2.6 - **LES for modelling wind flow in urban block: accuracy, challenges and applications** – Kostadinovic Vranesevic K., Jockovic M., Glumac A. (10ICSSM - Kostadinovic Vranesevic et al. - M2)
- M.2.11 - **Transient simulation on internal flow characteristics and pressure pulsation of variable speed Francis turbines during acceleration process**– Wang W., Liu S., Pei J. (10ICSSM - Wang et al. - M2)

16:10 - 16:20	Short technical break
16:20 - 17:20	Parallel Sessions
Day 2, June 19 16:20- 17:20	Session A, Room: FME 608 A Chairs: Spasic D , Faculty of Technical Science, University of Novi Sad, Serbia

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

- A.5 - **New rheological discrete dynamic systems of the fractional type rheological oscillator or creeper type: An overview of author's new research results** – Stevanovic Hedrih K. (10ICSSM - Hedrih (Stevanovic) - A)
- A.4 - **Magnetic flows on spheres** – Dragovic V., Gajic B., Jovanovic B. (10ICSSM - Dragovic et al. - A)
- A.6 - **A simple engineers-friendly method for non-holonomic systems** – Spasic D. (10ICSSM - Spasic - A)

Day 2, June 19 16:20 - 17:20	Session D, Room: FME 607 A Chairs: Trisovic N , Faculty of Mechanical Engineering, University of Belgrade, Serbia
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3 papers (15 min + 5 min for comments every):

- D.7. - **Computational modeling of drug transport from drug coated ballons (DCB)**– Milosevic M., Milicevic B., Simic V., Nikolic A., Filipovic N., Kojic M. (10ICSSM - Milosevic et al. - D)
- D.13 - **Computational modeling and parametric study of circulating tumor cells motion through capillaries and interaction with non/ thrombin activated platelets** – Simic V., Milosevic M., Nikolic A., Ning S., Leonard F., Liu X., Kojic M. (10ICSSM - Simic et al. - D)
- D.14 - **Kinematics modeling of compliant and extensible stewart-like platform** – Tanaskovic N., Lazarevic M., Krkljes D. (10ICSSM - Tanaskovic et al. - D)

Day 2, June 19	Session M4, Room: FME 608 B Chairs: Nesic N. , University of Pristina in Kosovska Mitrovica, Faculty of Technical Sciences,
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16:20 - 17:20	<i>Serbia</i>
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3 papers (15 min + 5 min for comments every):

- **M.4.3 - A novel finite time stability analysis of a class nonlinear fractional order multi-state time delay systems: a new Gronwall - Bellman inequality approach** – Lazarevic M., Pisl S., Radojevic D. (*10ICSSM – Lazarevic et al. - M4*)
- **M.4.8 - The influence of the radius of curvature on the forced oscillations of an elastically coupled system of two doubly curved shallow nano-shells** – Stamenkovic Atanasov M., Simonovic J., Pavlovic I. (*10ICSSM - Stamenkovic Atanasov et al. - M4*)
- **M.4.9 - Convergence of analytical-numerical algorithm for inverse kinematics of Niryo One robot** – Todorovic V., Nesic N., Jovic S. (*10ICSSM - Todorovic et al. - M4*)

Day 2, June 19	Session M3, Room: FME 607 B
16:20 - 17:20	Chairs: Dosaev M., Institute of Mechanics of Lomonosov Moscow State University, Russia

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

- **M.3.7 - A tailed robot on three supports** – Klimina L. (*10ICSSM - Klimina - M3*)
- **M.3.8 - A numerical study of the Belousov-Zhabotinsky reaction network** – Macesic S., Ivanovic Sasic A., Cupic Z. (*10ICSSM - Macesic et al. - M3*)
- **M.3.9 - Biomechatronic system for monitoring eating behaviour** – Magomedov M., Magomedov R. (*10ICSSM - Magomedov and Magomedov - M3*)

17:20 - 17:50	Coffee Break (At the lobby area of sixth floor FME)
Day 2, June 19 17:50 - 19:00	SSM Annual and Election Assembly Room: 611 FME
Day 2, June 19 17:50 - 19:00	Sightseeing tour Walk and Guided Tour of Niš Fortress
Day 2, June 19 19:30 - 22:00	Gala Dinner (The banquet hall at New City Hotel & Restaurant in Niš)



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., <i>MISASA, 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