

|                                |   |   |  |
|--------------------------------|---|---|--|
| 08:30-09:00 REGISTRATION       |   | Faculty Hall  |  |
| 09:00-09:15 CONFERENCE OPENING |   | Room 003  |  |
| 09:15-09:45                    | <b>KEYNOTE SPEAKER - dr.sc. Marko Lavrenčić</b><br><i>Numerical procedures for nonlinear static and dynamic analyses of shell systems</i>                       | Room 003  |  |
| 09:45-10:15 COFFEE BREAK       |   | Faculty Hall  |  |
| 10:15-11:30                    | <b>SECTION 1A</b> Room 003  | <b>SECTION 1B</b> Room 004  |  |
|                                | <b>CHAIRMAN: Franko Hržić &amp; Marina Plovanić</b>   | <b>CHAIRMAN: Mirna Klobučar &amp; Kristina Galjanić</b>   |  |
|                                | <b>Mihel, Lerga, Krvavica</b><br><i>A brief introduction of machine learning techniques for discharge estimation in the areas of estuaries and tidal rivers</i> | <b>Antonić</b><br><i>Modelling and Utilization of the PV Inverters to Mitigate Voltage Deviations in Distribution Grid</i>  |  |
|                                | <b>Alvir, Grbičić, Kranjčević</b><br><i>Application of machine Learning on negatively inclined buoyant jets</i>   | <b>Napravnik, Štajduhar</b><br><i>Reducing the Dimensionality of DICOM Metadata using Autoencoders</i>  |  |
|                                | <b>Blažina, Ivče</b><br><i>Sustainable ballast water management in the Adriatic sea</i>   | <b>Janeš, Jurković</b><br><i>Experiences in Tuning Performance of Hybrid MPI / OpenMP Applications on HPC Bura</i>  |  |
|                                | <b>Brezac, Turk</b><br><i>Initial Design project and Naval Architecture calculations of a RoRo ship with AVEVA Marine</i>                                       | <b>Mihaljević, Grandić</b><br><i>A preliminary assessment of buildings of the historic city centre of Senj</i>  |  |
|                                | <b>Sulovsky, Prpić-Oršić</b><br><i>On the Overset Grids in Computational Marine Hydrodynamics</i>   | <b>Matetić, Štajduhar, Wolf, Palaić, Ljubić</b><br><i>Data Visualization Tool for Smart Buildings HVAC Systems</i>  |  |
| 11:30-12:30 LABORATORY TOUR    |   | Start: Faculty Hall   |  |
| 12:30-13:30 LUNCH              |   | Student Restaurant (SCRI)   |  |
| 13:30-14:00                    | <b>PLENARY SESSION - dr.sc. Anton Bogdanić</b><br><i>Numerical and experimental investigation on anchor channels</i>  | Room 003  |  |
| 14:00-15:15                    | <b>SECTION 2A</b> Room 003  | <b>SECTION 2B</b> Room 004  |  |
|                                | <b>CHAIRMAN: Andrea Tadić &amp; Kristina Galjanić</b>   | <b>CHAIRMAN: Lazar Lukačević &amp; Antonio Bakran</b>   |  |
|                                | <b>Belošević, Peranić, Arbanas</b><br><i>Shear Strength of Sand-Kaolin Mixture</i>  | <b>Jurković, Grbčić Erdelj, Jelenić</b><br><i>Pure bending in orthotropic micropolar Continuum</i>  |  |
|                                | <b>Pajalić, Jagodnik, Arbanas</b><br><i>Behaviour of sandy soil in a small-scale landslide physical model and application of similarity</i>                     | <b>Ismail, Jelenić</b><br><i>Micropolar and couple-stress analytical solutions for stress-concentration factor in a uniaxially loaded plate with a circular inclusion</i> |  |
|                                | <b>Lanča, Jakac, Ivić</b><br><i>Examination of trajectory precision in different approaches of unmanned aerial vehicle motion control</i>                       | <b>Bjelobradić, Basan, Marković, Marohnić</b><br><i>DIC-based experimental analysis of plate specimens with central holes loaded in tension</i>                           |  |
|                                | <b>Jakac, Lanča, Ivić</b><br><i>Investigation of unmanned aerial vehicle vision system parameters for search and rescue application</i>                         | <b>Plovanić, Kožar</b><br><i>Estimation of glass plate boundary conditions using Laser Doppler vibrometer</i>   |  |
|                                | <b>Klobučar, Deluka-Tibljaš</b><br><i>Preliminary analyses of the optimal distance between a roundabout and signalized intersection</i>                         | <b>Sulovsky, Kožar</b><br><i>Simple model for inverse estimation of material parameters from three-point bending tests</i>  |  |
| 15:15-15:45 COFFEE BREAK       |   | Faculty Hall  |  |



| 15:45-16:45        | SECTION 3A<br>Room 003   | SECTION 3B<br>Room 004  |
|--------------------|--|---|
|                    | <b>CHAIRMAN:</b> Tea Sulovsky & Marina Plovanić  | <b>CHAIRMAN:</b> Antonio Blažina & Mirna Klobučar   |
|                    | <b>Grman, Basan, Tadić</b><br><i>Comparative analysis of structured light scanners' performance and influence of lighting conditions on scanning results</i>               | <b>Rak, Grbčić, Sikirica, Kranjčević</b><br><i>Comparison of macroscopic and mesoscopic approaches for fluid flow modelling around an airfoil</i>                                 |
|                    | <b>Tomić, Gubelj, Tonković</b><br><i>Microcrack Phase-Field Modelling of Sintered Steel</i>  | <b>Polančec, Lesičar</b><br><i>Novel Numerical Model of Subsurface Pitting Mechanism</i>  |
|                    | <b>Verbanac, Bulić, Jungmayr, Marth</b><br><i>Robust Nonlinear Speed Control of a Magnetic-Geared Drive</i>  | <b>Miculinić, Vukelić</b><br><i>Additive Manufacturing – A Disruptive Technology for the Maritime Spare Parts Supply Chain</i>  |
|                    | <b>Marković, Marohnić, Basan</b><br><i>Application of feature selection techniques in assessing variables relevant for estimation of materials parameters and behavior</i> | <b>Ogrizović, Perić Hadžić, Šutalo Šamanić</b><br><i>Realization of a modular integrated software for the management of multimodal passenger transport services in port areas</i> |
|                    | <b>Zlatić, Čanadija</b><br><i>Neural network based model for thermoelastic rubber behaviour</i>  |   |
| <b>16:45-17:00</b> | <b>CONFERENCE CLOSING</b>  | Room 003  |
| <b>17:00</b>       | <b>BEER TIME</b>   | The Beertija  |

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