

CONFERENCE PROGRAM

DAY 1 (12.09.2024.) – Room 102 https://zoom.us/j/94326514312?pwd=zaawibs7X0xaAkJGreOB0iFIFZ2bDW.1		
09:30 - 10:00	Opening Ceremony	
10:00 – 11:00	Plenary Session (Chairs: M. Dosaev, E. Manoach)	
	10:00 - 10:30	Teodor Atanacković - NON-LOCAL ONE DIMENSIONAL ELASTICITY WITH GENERAL FRACTIONAL DERIVATIVES OF RIESZ TYPE
	10:30 - 11:00	Emil Manoach - SOME COUPLED PROBLEMS IN DYNAMICS OF ELASTIC BODIES
11:00 – 12:00	SPECIAL SESSION 1 - Fluid Mechanics (Chair: T. Atanacković) Dedicated to Academician Prof. Dr. Vladan Djordjevic	
	11:00 - 11:15	Teodor Atanacković – PROF. DR. VLADAN DJORDJEVIC
	11:15 - 11:30	Nevena D. Stevanović, Snežana S. Milićev - MATHEMATICAL TRANSFORMATION FOR ANALYTICAL SOLUTION OF THE RAREFIED GAS FLOW IN A VARIABLE CROSS-SECTION MICROCHANNEL
	11:30 - 11:45	Snežana S. Milićev, Nevena D. Stevanović - ON THE POSSIBILITIES OF OBTAINING ANALYTICAL SOLUTIONS FOR GAS FLOW OF DIFFERENT LEVELS OF RAREFACTION
	11:45 - 12:00	Iva I. Guranov, Snežana S. Milićev and Nevena D. Stevanović - RADIUS RATIO EFFECTS ON PRESSURE DISTRIBUTION OF GAS FLOW THROUGH ANNULAR MICROTUBE
12:00 – 12:30	Coffee Break	
12:30 – 13:15	SPECIAL SESSION 1 - Fluid Mechanics (Chairs: N. Stevanović, Đ. Čantrak) Prof. Vladan Djordjevic award candidates	
	12:30 - 12:45	Ivana Cvetkovic, Draga Pihler-Puzovic, Snezana Milicev - NON-AXISYMMETRIC DISPLACEMENT IN A COMPLIANT HELE-SHAW CELL
	12:45 - 13:00	Nikolaos Rogkas - ANALYTICAL MODELING OF SQUEEZED AND ROTATING THIN FILMS
	13:00 - 13:15	Milan M. Raković, Aleksandar S. Čoćić - THE ASSESSMENT OF INFLUENCE OF SHEAR FLOW ON THE RESULTS OF NUMERICAL SIMULATIONS OF TWO-PHASE BUBBLY FLOW
13:30 – 14:30	Lunch Break	
14:30 – 15:10	Invited Lectures (Chairs: S. Kenjereš, J. Svorcan)	
	14:30 – 14:50	Dharmendra Tripathi - MATHEMATICAL MODELLING OF VIRUS SPREAD VIA BLOOD FLOW
	14:50 – 15:10	Raúl Martínez Cuenca, Guillem Monros, Javier Climent and Sergio Chiva - MULTIPHASE FLOW: FROM ACADEMIA TO THE INDUSTRY

15:15 – 17:00	General Session (Chairs: D. Zorica, A. Rodríguez-Asensio)	
	15:15 – 15:30	Enej Istenič, Miha Brojan - TAYLOR-COUETTE FLOW OF A VISCOELASTIC FLUID DURING THE PHOTOPOLYMERIZATION INDUCED PHASE TRANSITION
	15:30 – 15:45	Isidora Rapajić, Srboľjub Simić - COMPARISON OF CAPILLARY RISE MODEL IN THE CASE OF CONSTANT AND VARIABLE CROSS-SECTION
	15:45 – 16:00	Jelena Svorcan, Nebojša Lukić, Toni Ivanov, Aleksandar Simonović- DESIGN AND FLOW SIMULATION OF A MORPHING AIRFOIL
	16:00 – 16:15	Zagorka Matić, Srboľjub Simić - NONEQUILIBRIUM MODELLING OF KORTEWEG FLUIDS
	16:15 – 16:30	Ivan D. Tomanović, Srđan V. Belošević, Aleksandar R. Milićević, Nenad Đ. Crnomarković, Andriana D. Stojanović - ALGORITHM FOR PARALLEL COMPUTATIONS OF REACTIVE FLOW WITH PARTICLES – GAINS AND CHALLENGES
	16:30 – 16:45	Novica Janković, Đorđe Čantrak, Dejan Ilić - AVERAGE VELOCITY FIELD DOWNSTREAM DISTRIBUTIONS IN THE FREE TURBULENT SWIRLING JET GENERATED BY THE AXIAL FAN IMPELLER WITH TWISTED BLADES
17:00 – 17:30	Break	
17:30 - 18.30	General Session (Chairs: Y. Selyutskiy, A. Obradović)	
	17:30 – 17:45	Yury D. Selyutskiy, Andrei P. Holub, Boris Ya. Lokshin, Valery B. Zudov - ON ROBUST STABILIZATION OF MOTION OF A QUADROTOR WITH SLUNG PAYLOAD
	17:45 – 18:00	Sladjan Jelić, Dušan Zorica - STORED ENERGY AND DISSIPATED POWER FOR ONE-DIMENSIONAL VISCOELASTIC BODY
	18:00 – 18:15	Nenad Vesić - TENSOR CALCULUS APPLIED IN CLASSICAL MECHANICS
	18:15 – 18:30	M. Veg, A. Obradović, A. Tomović- MASS OPTIMIZATION OF TIMOSHENKO BEAMS BY USING THE PONTRYAGIN MAXIMUM PRINCIPLE
	18:30 – 18:45	Snežana Gordić, Ljubica Oparnica, Dušan Zorica- THE FRACTIONAL ZENER WAVE EQUATIONS
19:30 -	Conference dinner	

DAY 1 (12.09.2024.) – Room 301f		
https://zoom.us/j/96804493240?pwd=GQtWxCe7D6ewlaagr3iBdi5E4Qvv5A.1		
13:30 – 14:30	Lunch Break	
14:30 – 16:00	General Session (Chairs: M. Četkovic, S. Tóth)	
	14:30 - 14:45	Nikolaos Rogkas, Anna Maniou, Dimitrios Skondras-Gousios, Georgios Vasileiou, Pavlos Zalimidis, Vasilios Spitas - 3D FINITE ELEMENT ANALYSIS OF FRICTION BETWEEN PDMS MICRO-PILLAR BIOMIMETIC TEXTURE AND SIO2
	14:45 – 15:00	Szilveszter Tóth - OPTIMIZATION OF AN IMPELLER BASED ON STRENGTH ASPECTS
	15:00 – 15:15	Marina Cetkovic - MECHANICAL BUCKLING OF FGM PLATES RESTING ON ELASTIC FOUNDATIONS USING LAYER WISE FINITE ELEMENT
	15:15 – 15:30	Vladimir Lj. Dunić, Miroslav M. Živković - PHASE-FIELD FATIGUE MODELING IN SHAPE MEMORY ALLOYS
	15:30 - 15:45	Mina Mirović, Danijela Srećković, Dániel Laki, Đorđe Čantrak, Novica Janković - COMPARISON OF NUMERICAL SIMULATION RESULTS AND EXPERIMENTAL MEASUREMENTS OF SWIRLING FLOW IN THE PIPE BEHIND THE AXIAL FAN IMPELLER
	15:45 - 16:00	Yogesh Gandhi, Ana Pavlovic, Julián Norato, Giangiacomo Minak - A GEOMETRY PROJECTION METHOD WITH LENGTH CONSTRAINT FOR DESIGNING MONOLITHIC STRUCTURES MADE OF CONTINUOUS FIBER-REINFORCED COMPOSITES
16:00 – 17:00	General Session (Chairs: V. Dunić, S. Patil)	
	16:00 - 16:15	Sreten Mastilovic, Branislav Djordjevic, Aleksandar Sedmak - TWO-STEP-SCALING APPROACH TO SIZE EFFECT MODELING OF FRACTURE TOUGHNESS IN DBT REGION
	16:15 - 16:30	Mišo Bjelić, Branko Radičević, Mladen Rasinac, Vladan Grković - MULTI-CRITERIA ESTIMATION OF DOUBLE-ELLIPSOIDAL HEAT SOURCE PARAMETERS FOR NUMERICAL SIMULATION OF WELDING PROCESS
	16:30 - 16:45	Santosh Patil, P. S. Shivakumar Gouda, Vinayak S. Uppin, Ashu Yadav - ANALYSIS OF TENSILE AND BUCKLING BEHAVIOUR OF CARBON/BASALT EPOXY COMPOSITE LAMINATES WITH DIFFERENT HOLE ARRANGEMENTS
	16:45 - 17:00	Anton Makseev, Anton V. Krysko, Tatyana V. Yakovleva, Ksenia S. Bodyagina, Maxim V. Zhigalov, Vadim A. Krysko - ELASTICPLASTIC ANALYSIS OF PERFORATED RECTANGULAR 3D PLATES
17:00 – 17:30	Break	

17:30 – 18:45	General Session (Chairs: M. Grubišić, M. Škondrić)	
	17:30 – 17:45	Marina M. Škondrić, Ognjen R. Govedarica, Aleksandar R. Savić Branislava M. Lekić - POROSITY OF PERVIOUS CONCRETE FLAGS – PREDICTION AND MEASUREMENTS
	17:45 – 18:00	Marin Grubišić - NUMERICAL SEISMIC RESPONSE EVALUATION OF CHEVRON BRACED FRAME WITH TADAS DAMPER
	18:00 – 18:15	R. Sadik, C. Rodrigo-Vilar, V. Roda-Casanova, M.D. Martínez- Rodrigo, J.L. Sancho-Bru, D. Hernandez-Figueirido - DYNAMIC CHARACTERIZATION OF A FIBRE-REINFORCED HIGH- STRENGTH CONCRETE PEDESTRIAN FOOTBRIDGE BASED ON NUMERICAL-EXPERIMENTAL TECHNIQUES
	18:15 – 18:30	Ajith Kuriakose Mani, Abin Varghese Jacob, Alen Shibu Paul, Anantha Krishnan, Akash Krishnan V, Sivasubramanian Palanisamy - DEVELOPMENT OF COMPOSITES REINFORCED WITH RAMIE FIBER AND NATURAL RUBBER
	18:30 - 18:45	Marija Rafailović, Miroslav Živković, Vladimir Milovanović, Jelena Živković, Gordana Jovičić - IMPROVEMENT OF A PHYSICAL FIELD IN FEA BY APPLYING A SMOOTHING METHOD
19:30 -	Conference dinner	

DAY 1 (12.09.2024.) – Library MISANU at 3rd floor https://zoom.us/j/96246250683?pwd=BGkm9j7UkPPJdpK6Na7DzwEt6yiLi.1		
13:30 – 14:30	Lunch Break	
14:30 – 15:45	General Session (Chairs: M. Bošković, S. Jelić)	
	14:30 - 14:45	Marko Todorović, Nebojša Zdravković, Goran Marković, Mile Savković, Predrag Mladenović, Goran Pavlović - CROSS SECTION DESIGN OF AN AUTO CRANE ARTICULATED BOOM USING METAHEURISTIC OPTIMIZATION ALGORITHM FOR SET DEFLECTION
	14:45 - 15:00	Slobodan Jelić, Vesna Šešum-Čavić - AN INTELLIGENT METHOD FOR HYPERPARAMETER OPTIMIZATION IN DEEP LEARNING MODEL FOR SOIL ORGANIC CARBON ESTIMATION FROM SPECTRAL MEASUREMENTS
	15:00 – 15:15	Tanja Dulović, Branko Radičević, Goran Miodragović, Mišo Bjelić - APPLICATION OF HYBRIDIZATION OF GWO-PUMA ALGORITHMS FOR IDENTIFICATION OF NON-ACOUSTIC PARAMETERS OF THE JCA
	15:15 – 15:30	Marina S. Bošković, Radovan R. Bulatović, Slaviša M. Šalinić, Aleksandra M. Nikitović, Zorana V. Jeli - DIMENSIONAL SYNTHESIS OF A HYBRID RIGID-FLEXIBLE FOUR-BAR LINKAGE FOR OPEN-PATH GENERATION

	15:30 – 15:45	Chunmei Liu, Renata Troian, Eduardo Souza de Cursi - ROBUST BIO-INSPIRED SHAPE OPTIMIZATION OF STRUCTURES
15:45 – 17:00	General Session (Chairs: U. Ilić, N. Vesić)	
	15:45 – 16:00	Pavel V. Dunchenkin, Anton V. Krysko, Maxim V. Zhigalov, Vadim A. Krysko - TOPOLOGICAL OPTIMISATION METHOD FOR REDUCING STRESS PEAKS AT THE BOUNDARY OF JOINING STRUCTURAL MEMBERS OF MECHANICAL STRUCTURES
	16:00 – 16:15	Uroš Lj. Ilić, Emil A. Veg - VARIOUS LISSAJOUS FIGURES AND THEIR IMPLICATION IN VIBRATORY TECHNOLOGY
	16:15 – 16:30	Ljubiša Garić, Nikola Nešić, Saša Jovanović, Julijana Lekić - ANALYSIS OF VIBRO-IMPACT PROCESSES OF SINGLE MASS SYSTEM WITH VISCOUS DAMPING AND TWO-SIDED LIMITERS
	16:30 – 16:45	Uroš Lj. Ilić, Mihailo P. Lazarević - APPLYING RODRIGUES' FORMULA FOR KINEMATIC MODELING OF VIBRATORY CONVEYORS
	16:45 – 17:00	Xiaofang Duan, Jimin Ye, Dongmei Huang - ANALYSIS OF SUB-RESONANCE OF BIO-INSPIRED PAW-LIKE STRUCTURES
17:00 – 17:30	Break	
17:30 – 18:45	General Session (Chairs: P. Mandić, S. Paunović) – online only	
	17:30 – 17:45	V. Levashov, A. Kryukov, I. Shishkova, V. Mayorov and V. Tereshkin - SOME APPROACHES TO CONSIDERING THE INFLUENCE OF HOMOGENEOUS NUCLEATION ON THE INTENSITY OF HEAT AND MASS TRANSFER DURING EVAPORATION
	17:45 – 18:00	Gautam Choubey, Gurkreetkaur Brar - COMPUTATIONAL STUDY OF COMBINED FUEL INJECTION APPROACHES IN SUPERSONIC COMBUSTOR
	18:00 – 18:15	Anjali Bhardwaj, Dharmendra Tripathi - MULTI-MEMBRANES-BASED PUMPING FLOW OF NANOFLUIDS: APPLICATION IN THERMOFLUIDS SYSTEM
	18:15 – 18:30	Sonali Chadha, Vaibhav Jain, Vinay Kumar Chandna - MATHEMATICAL MODELING OF SMART CHARGING OF ELECTRIC VEHICLES
	18:30 – 18:45	Dragan A. Milošević, Dragoljub Ilić, Dragana Trnavac - APPLICATION OF ANN MODEL IN MECHANICAL ENGINEERING EDUCATION TO ENHANCE COGNITIVE SKILLS IN CHILDREN THROUGH CHESS AND LOGICAL GAMES
19:30 -	Conference dinner	

DAY 2 (13.09.2024.) – Room 102		
https://zoom.us/j/94326514312?pwd=zaawibs7X0xaAkJGreOB0iFIFZ2bDW.1		
09:30 – 10:30	Plenary Session (Chairs: M. Brojan, L. Said)	
	09:30 - 10:00	Marat Dosaev - MODELING OF A VIBRATION ROBOT WITH AN UNBALANCED ROTOR AND FLYWHEELS
	10:00 – 10:30	Vasilios Spitas, A. Mavridis-Tourgelis, G. Kaisarlis and G. Vasileiou - SENSITIVITY ANALYSIS OF PROFILE DEVIATIONS OF HIGH-PRESSURE ANGLE SPUR GEARS
10:30 – 11:10	Invited Lectures (Chairs: S. Simić, D. Karličić)	
	10:30 - 10:50	Lobna A. Said, Mohammed H. Yacoub - TOWARDS HIGH-SPEED ENERGY EFFICIENT SOLUTIONS: HARDWARE ACCELERATION OF HIGH-PERFORMANCE COMPUTATIONAL APPLICATIONS
	10:50 - 11:10	Vitomir Racić - MODELLING SYNCHRONISED CROWD BEHAVIOUR
11:10 – 11:45	Coffee Break	
11:45 – 12:45	General session (Chairs: V. Spitas, V. Roda-Casanova)	
	11:45 - 12:00	Puneeth M. L., Santosh Patil, Deepankar Saini, Mohit Jain, Daing Nafiz - EXPERIMENTAL AND NUMERICAL WEAR ANALYSIS OF POLYMER GEARS
	12:00 - 12:15	G. Vasileiou, N. Rogkas, L. Gkimisis, V. Spitas - DYNAMIC SIMULATION OF HIGH-PRESSURE ANGLE SPUR GEARS
	12:15 - 12:30	Maksat Temirkhan, Christos Spitas - A PREDICTIVE MODEL FOR WEAR IN MISALIGNED HELICAL GEAR CONTACT UNDER CONDITIONS OF BOUNDARY LUBRICATION
	12:30 - 12:45	V. Roda-Casanova, R. Sadik, J.L. Iserte-Vilar, F.J. Andrés-Esperanza - ON THE LIMITATIONS OF BEAM THEORIES TO PREDICT THE TRANSVERSE DEFLECTION AND VIBRATION OF STEPPED SHAFTS
12:45 – 14:00	General session (Chairs: Milan Petrovic, Hemant Raj Singh)	
	12:45 - 13:00	Milan M. Petrovic, Vladimir Stevanovic, Sanja Milivojevic - NUMERICAL MODELLING OF POOL AND FLOW BOILING IN TWO-PHASE SYSTEMS OF STEAM GENERATORS
	13:00 - 13:15	Ashvani Kumar; Dharmendra Tripathi- ANALYSIS OF HEAT TRANSFER IN A PERISTALTIC DIVERGING TUBE WITH SURFACE ROUGHNESS
	13:15 - 13:30	Milos Lazarevic, Vladimir Stevanovic, Sanja Milivojevic, Milan M. Petrovic - MODELLING OF THREE-DIMENSIONAL THERMAL-HYDRAULICS OF HORIZONTAL STEAM GENERATOR
	13:30 - 13:45	Prashant Khanna, PL. Ramkumar - PHYSICAL AND THERMAL CHARACTERISTICS OF LLDPE-MINERAL BLEND FOR ROTATIONAL MOULDING

	13:45 – 14:00	Hemant Raj Singh, Shaurya Verma - COMPARATIVE STUDY OF SOLAR PARABOLIC TROUGH COLLECTOR IN DIFFERENT CLIMATE ZONES OF INDIA
14:00 – 15:00	Lunch Break	
15:00 – 17:15	General Session (Chairs: M. Lazarević, S. Raorane)	
	15:00 – 15:15	Mihailo P. Lazarević, Stjepko Pišl, Darko M. Radojević, Nikola Nešić - STABILITY OF FRACTIONAL-ORDER TIME-DELAY DYNAMICAL SYSTEMS: NEW RESULTS
	15:15 – 15:30	Jacek Filar, Paweł Paćko- USE OF MULTIPLE SCATTERING OF ELASTIC WAVES FOR DEVELOPMENT OF ACOUSTIC LOGIC GATES
	15:30 – 15:45	Sladjan Jelić, Dušan Zorica - COMPRESIVE AND SHEAR WAVE PROPAGATION IN THREE-DIMENSIONAL FRACTIONAL VISCOELASTIC INFINITE SOLID MEDIA
	15:45 – 16:00	Bartłomiej Piwowarczyk, Michael J. Leamy, Paweł Paćko - TRUNCATION RESONANCES IN ZIG-ZAG PHONONIC CRYSTALS WITH COUPLED LONGITUDINAL AND FLEXURAL WAVES
	16:15 – 16:30	Nevena Rosić, Milan Cajić, Danilo Karličić, Mihailo Lazarević - WAVES IN BEAM METASTRUCTURES WITH RIGID BODIES ON INERTER-BASED FOUNDATIONS
	16:30 – 16:45	Siddhesh Raorane, Tadeusz Stepinskiand, Pawel Packo - DECODING RECEPTION DIRECTIVITY PATTERNS OF ULTRASONIC TRANSDUCERS FROM RANDOM GUIDED WAVE EXPERIMENTS
	16:45 – 17:00	Ankush Gogoi, Satyam Panda, Budhaditya Hazra, Vikram Pakrashi - WEAK STOCHASTIC INTEGRATORS FOR DYNAMICS ON S^2 MANIFOLD
	17:00 – 17:15	L.A. Kalutsky, T.V. Yakovleva, V.A. Krysko - ANALYSIS OF POROUS FUNCTIONALLY GRADED SIZE-DEPENDENT POROUS PLATES ON THE ELASTIC FOUNDATION OF WINKLER-PASTERNAK TAKING INTO ACCOUNT DIFFERENT TYPES OF NONLINEARITY
17:15 – 17:45	Break	
17:45 – 18:30	EnDIS – Presentation and Assembly	

DAY 2 (13.09.2024.) – Room 301f		
https://zoom.us/j/96804493240?pwd=GQtWxCe7D6ewlaagr3iBdi5E4Qv5A.1		
10:30 – 12:30	Special Session – Mechanics of Materials (Chair: M. Trajković Milenković)	
	10:30 - 10:50	Dragoslav Sumarac, Zoran Perovic, Ismail Nurkovic, Demir Vatic, Timur A. Curic, Maosen Cao - MODELING OF PHYSICAL PROBLEMS OF HYSTERESIS
	10:50 - 11:10	Penava Davorin, Uzair Aanis, Arastooye Marandi Mahdi, Beinersdorf Silke, Abrahamczyk Lars- PARAMETRIC MODELLING OF BUILDING'S VULNERABILITY INDEX FOR URBAN SCALE RISK ASSESSMENT IN DUBROVNIK'S OLD CITY POST-1979 MONTENEGRO EARTHQUAKE
	11:10 - 11:30	Nikola Korunović, Jovan Arandelović - FINITE ELEMENT MODELING FOR STRUCTURAL OPTIMIZATION OF FIXATORS USED IN PROXIMAL FEMUR FRACTURES HEALING
	11:30 - 11:45	K. (Stevanovic) Hedrih, A. Hedrih- RHEOLOGICAL MODELS OF FRACTIONAL TYPE AND PIEZOELECTRIC PROPERTY FOR NEW BIOMATERIALS
	11:45 - 12:00	Isaak Trajković, Walid Musrati, Miloš Milošević, Aleksandar Sedmak, Bojan Medjo- APPLICATION OF NUMERICAL ANALYSIS IN DETERMINATION OF FRACTURE RESISTANCE OF PIPELINE MATERIALS
	12:00 - 12:15	Zoran Perovic, Coric Stanko, Sumarac Dragoslav- MODELS FOR UNIAXIAL AND MULTIAXIAL FATIGUE FAILURE
	12:15 - 12:30	Marina Trajković-Milenković, Saša Randelović, Andrija Zorić, Katarina Slavković- NUMERICAL ESTIMATION OF SPRING-BACK EFFECT IN BENDING PROCESSES
12:30 – 14:00	Poster session (Room 301f)	
14:00 – 15:00	Lunch Break	
15:00 – 17:00	General Session (Chairs: M. Dinulović, V. Šešum-Čavić)	
	15:00 – 15:15	Alicia Rodríguez-Asensio, Stefano Discetti, Andrea Ianiro - APPLICATION OF MANIFOLD LEARNING TECHNIQUES TO SEVERAL ACTUATED FLOW CONFIGURATIONS
	15:15 – 15:30	Vesna Šešum-Čavić - A MATHEMATICAL MODEL OF P2P RESOURCE DEFINITION IN UNSTRUCTURED P2P NETWORKS
	15:30 – 15:45	Victor R. Medina, Younes Aoues, Didier Lemosse - ACTIVE SURROGATE-BASED APPROACH TO SEISMIC FRAGILITY CURVE ESTIMATION FOR NONLINEAR STRUCTURES
	15:45 – 16:00	Marina Ivanović, Aleksandra Petrović, Vladan Grković, Katarina Mitrović, Nedeljko Dučić - TECHNOLOGICAL FORMS OF PRISMATIC WORKPIECES AND THE SELECTION OF NECESSARY AXES FOR MACHINE TOOLS
	16:00 – 16:15	Miroslav Andjelković, Slobodan Maletić - QUALITATIVE INTERPRETATION OF ENTROPY-LIKE MEASURES IN STUDY OF HIGHER ORDER GROUPING IN COMPLEX NETWORKS

	16:15 – 16:30	Mitra V. Vesović, Radiša Ž. Jovanović, Vladimir R. Zarić - NONLINEAR MODELLING OF DC MOTOR USING GA OPTIMIZED ANFIS
	16:30 – 16:45	Mirko R. Dinulović, Aleksandar Č. Bengin, Aleksa M. Maljević, Marta R. Trninić - ADVANCING ORTHOTROPIC PLATE STABILITY ANALYSIS THROUGH MACHINE LEARNING
	16:45 – 17:00	Milica Ivanović, Mitra Vesović, Stamenić Mirjana, Radiša Jovanović, Srbislav Genić - NEURAL NETWORK MODEL FOR PREDICTING THE EFFICIENCY OF A STEAM BOILER USING NATURAL GAS AS FUEL
17:00 – 17:45	Poster session (Room 301f)	
Merima Šahinagić-Isović , Marko Čečez, Andrija Zorić, Marina Trajković-Milenković- MORTARS WITH MARBLE POWDER AS PARTIAL REPLACEMENT FOR CEMENT – EXPERIMENTAL AND NUMERICAL ANALYSIS		
Abdumuttalib Muhsen, Natalya Kizilova, Bashar Hassan Attiya - DESIGN AND OPTIMIZATION OF SHELL AND TUBE HEAT EXCHANGER AT HADITHA HYDRO POWER PLANT		
Marija Stamenković Atanasov - FREE VIBRATION ANALYSIS OF SYMMETRIC ANGLE-PLY LAMINATED PLATES WITH DIFFERENT BOUNDARY CONDITIONS		
Stanko N. Nikolić, Milivoj R. Belić - ROGUE WAVE CLUSTERS OF THE HIGHER-ORDER NONLINEAR SCHRÖDINGER EQUATION		
D. Leshchenko, A. Rachinskaya - PERTURBED MOTIONS OF A NEARLY DYNAMICALLY SPHERICAL RIGID BODY WITH A MOVING MASS IN A RESISTIVE MEDIUM		
M. Kazheunikau, M. Zhukavets - A COMPUTER AIDED APPROACH TO DESIGN OF WELDING ROBOTIC SYSTEMS		
Gvozden B. Jovanović, Vaso D. Manojlović, Stefan M. Dikić, Miroslav D. Sokić, Dejan B. Momčilović, Alen Š. Delić, and Milorad P. Gavrilovski - INFLUENCE OF RAIL FOOT MODIFICATION ON SOLIDIFICATION STRESS OF RAILWAY ALUMINOTHERMIC WELDING BY CASTING SIMULATION		
Milica Milić, Jelena Svorcan - STRUCTURAL OPTIMIZATION OF A COMPOSITE STRUCTURE OF A VERTICAL TAKE-OFF AND LANDING (VTOL) UNMANNED AIR VEHICLE (UAV)		
Stepa M. Paunović, Milan Cajić, Danilo Karličić - DYNAMICS OF BIMORPH BEAM-CHAIN WITH PERIODICALLY CHANGING FRACTIONALLY DAMPED COUPLING LAYER		
Hammoudi Abderazek, Aissa Laouissi, Mourad Nouioua, Ivana Atanasovska - RECENT SWARM INTELLIGENCE TECHNIQUES FOR OPTIMAL SPUR GEAR DESIGN		
Milica Milić, Jelena Svorcan, Dejan Momčilović, Ivana Atanasovska - EXPERIMENTAL VALIDATION OF THE FE MODEL OF A COMPOSITE BEAM		
Mikhail Zhukavets - ENGINEERING TECHNOLOGY FOR CALCULATION OF RESIDUAL PHENOMENA DURING ARC WELDING OF GENERAL PURPOSE STRUCTURES (SPECIAL CASE: THE MODELS OF THE THIN PLATES)		
Karam I. Abdulameer - BUILDING INFORMATION MODELING'S (BIM) INTEGRATION WITH SUSTAINABLE BUILDING DESIGN		
Vuk Todorović, Nikola Nešić, Mihailo Lazarević - DIRECT AND INVERSE KINEMATICS FOR 6DOF ROBOT BASED ON SCREW THEORY		
Petar D. Mandić, Tomislav B. Šekara, Mihailo P. Lazarević - POSITION CONTROL OF ROBOT MANIPULATOR USING OPTIMAL PID CONTROLLER		

DAY 2 (13.09.2024.) – Library MISANU at 3rd floor https://zoom.us/j/96246250683?pwd=BGkm9j7UkPPJdplK6Na7DzwEt6yiLi.1		
15:00 – 17:00	Special Session - Reanalysis and Simulation of Mechanical Systems (Chairs: N. Trišović, W. Li)	
	15:00 – 15:30	Wei Li, Yu Guan, Dongmei Huang, Natasa Trisovic - GAUSSIAN RBFNN METHOD FOR SOLVING FPK AND BK EQUATION IN A GVDP SYSTEM WITH FOPID CONTROLLER
	15.30 – 15.45	Simona Doneva - LARGE AMPLITUDE THERMO-ELASTIC VIBRATION OF CIRCULAR PLATES: PARAMETRIC STUDY AND STABILITY ANALYSIS
	15.45 – 16.00	C. Birtok Baneasa, D. Sapta, A. Socalici- THE INFLUENCE OF THE CHEMICAL COMPOSITION ON THE FINISH OF THE GRANULATION OF THE ALUMINUM ALLOYS 6082
	16:00 – 16:15	Vesna Rajić, Jelena Stanojević, Nataša Trišović- BENFORD'S LAW WITH APPLICATION IN DYNAMICAL SYSTEMS
	16:15 – 16:30	Alma Žiga, Amra Talić-Čikmiš, Adnan Barlov - KINEMATIC ANALYSIS OF SCISSOR LIFT STEM TOY
	16:30 – 16:45	Guidong Yang - RESPONSE ANALYSIS OF THE THREE-DEGREE-OF-FREEDOM VIBROIMPACT SYSTEM WITH AN UNCERTAIN PARAMETER
	16:45 – 17:00	Dongmei Huang - THEORETICAL ANALYSIS OF GALLOPING ENERGY HARVESTERS
17:00 – 17:45	Poster session (Room 301f)	

DAY 3 (14.09.2024.) – Room 102		
https://zoom.us/j/94326514312?pwd=zaawibs7X0xaAkJGreOB0iFIFZ2bDW.1		
09:30 – 10:30	Plenary Session (Chairs: R. Martínez Cuenca, M. Cajić)	
	09:30 - 10:00	Miha Brojan- THE ORIGIN OF MULTISTABILITY AND ENERGY BARRIERS IN WRINKLING OF ELASTIC FILMS ON ELASTIC HALFSPACE
	10:00 – 10:30	Saša Kenjereš- ON COMBINED EXPERIMENTAL AND COMPUTATIONAL FLUID DYNAMICS STUDIES OF THE MULTI-SCALE MULTI-PHYSICS PHENOMENA IN BIO-MEDICAL APPLICATIONS
10:30 – 11:10	Invited Lectures (Chairs: D. Tripathi, M. Cajić)	
	10:30 - 10:50	Ana Pavlovic - TIPS AND TRICKS FOR NUMERICAL ANALYSIS OF LOW-VELOCITY IMPACTS ON BIOCOMPOSITES
	10:50 - 11:10	Valery Pilipchuk - PASSIVE WAVE CONTROL IN CELLULAR METASTRUCTURES USING CHAOTICITY OF SOFT-WALLED BILLIARDS
11:10 – 11:45	Break	
11:45 – 13:00	General session (Chairs: A. Sedmak, N. Nešić)	
	11:45 - 12:00	Aleksandar Sedmak - COMPUTATION MECHANICS IN SERBIA – HOMAGE TO MLADEN BERKOVIĆ
	12:00 - 12:15	Nikola Živković, Mihailo Lazarević, Jelena Vidaković, Andrija Dević - CASCADED ILC-MPC CONTROLLER FOR ROBOT MANIPULATORS
	12:15 - 12:30	Nemanja O. Tanasković, Mihailo P. Lazarević, Damir Krklješ - VARIABLE STIFFNESS ACTUATOR FOR ACHIEVING 3D MOVEMENT
	12:30 - 12:45	Hemant Raj Singh, Dilip Sharma, Vishnu Agarwal - SCHEFFLER BASED HOUSEHOLD SOLAR COOKING SYSTEM FOR REMOTE LOCATIONS IN INDIA: DESIGN AND DEVELOPMENT
	12:45 - 13:00	Uttam Kumar, Hemant Raj Singh, Krishna Kant Pandey - DESIGN AND DEVELOPMENT OF AN AUTONOMOUS ROBOT FOR LINEMAN ASSISTANCE
13:00 – 14:00	Closing Ceremony	

DAY 3 (14.09.2024.) – Room 301f		
https://zoom.us/j/96804493240?pwd=GQtWxCe7D6ewlaaqr3iBdi5E4Qvv5A.1		
10:30 – 11:15	General session (Chairs: M. Grubišić, O. Cherkasov)	
	10:30 - 10:45	Rakesh Kumar, Siddhanth Das, Santosh Patil - MODELLING OF NON-NEWTONIAN INTERSTITIAL FLUID FLOW THROUGH LACUNO-CANALICULAR SYSTEM OF A BONE
	10:45 – 11:00	Anfisa S. Rezanova, Marat Z. Dosaev, Vitaly A. Samsonov - MODELING THE MECHANICAL BEHAVIOR OF A TRIGGER FINGER TENDON-LIGAMENT APPARATUS
	11:00 - 11:15	Qihong L. Li-Hu, Patricia García-Caspueñas, Andrea Ianiro, Stefano Discetti - GALERKIN MODELS FOR TIME SUPER-SAMPLING OF PIV MEASUREMENTS
11:10 – 11:45	Break	
11:45 – 13:00	General session (Chairs: A. Zorić, M. Sedak)	
	11:45 - 12:00	O. Cherkasov, N. Orel - MANEUVERS FOR SELECTION A LANDING SITE WITH MINIMAL FUEL CONSUMPTION
	12:00 - 12:15	M.A Aichouche, A. Abidelah, Dj.D Kerdal – INFLUENCE OF ANCHOR ROD BENDING ON THE BEHAVIOR OF COLUMN BASE PLATE CONNECTIONS
	12:15 - 12:30	Dr. Mohammad Rizwanullah - OPTIMIZATION OF CAPACITATED OPEN LOOP STOCHASTIC SUPPLY CHAIN NETWORKS UNDER UNCERTAIN DEMAND USING MODIFIED BEES ALGORITHM
	12:30 - 12:45	Mikhail A. Garbuz - DYNAMICS OF A CATAMARAN WITH A SAVONIUS ROTOR AND WATER PROPELLER
	12:45 - 13:00	Siniša M. Bikić, Sebastian S. Baloš, Milivoj T. Radojčin, Ivan S. Pavkov - CHEMICAL ANALYSIS OF BLACK POWDER AS USEFUL DIAGNOSTIC TOOL OF GAS PIPELINE SYSTEM
	13:00 - 13:15	Nikolay Zlatov, Krastimir Popov, Georgi Hristov - SCIENTIFIC APPROACH OF FOUR-DIMENSIONAL PRINTING OF CITY WIND TURBINES
13:00 – 14:00	Closing Ceremony	

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PIB: 108 142 547; Mat. br. 20938927; Šif. del. 7112



Projektiinženjering Tim is a design, engineering, consulting and real estate company, active in the areas of residential, public, commercial and infrastructure construction.

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Based in Niš, Serbia, Projektiinženjering Tim was founded in 2013 to channel the decades-long experience of our engineers, architects and other associates, and offer it to our clients, according to the needs of each individual project.

With strong ties to the academic community, we also innovate in the field of structural design. We are especially proud of our patent "Adaptive system for seismic protection of buildings against the effects of strong earthquakes through structurally ensured global optimization of the seismic-energy balance", realized with assistance from the Republic of Serbia Innovation Fund.

For more details about our activities and for potential cooperation in any form, it would be our pleasure if you would get in touch.

Deo referenci / Some reference



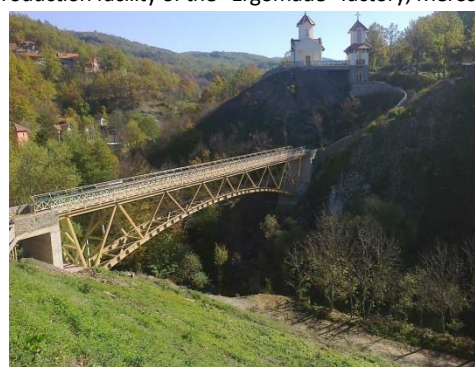
Proizvodni objekat fabrike "IMI", Niška Banja
Production facility of the "IMI" factory, Niška Banja



Proizvodni objekat fabrike "Ergomade", Merošina
Production facility of the "Ergomade" factory, Merošina



Naučno-istraživački institut "BioSense", Novi Sad, projekat konstrukcije
Scientific Research Institute "BioSense", Novi Sad, structural design



Pešački most preko Prolomske reke, Prolom Banja
Pedestrian bridge over the Prolomska river, Prolom Banja



ANA MILANOVIĆ JOVANOVIĆ PR BIRO ZA PROJEKTOVANJE
AMING PROJEKT KNJAŽEVAC,
ul. Knjaza Miloša 75/12, 19350 Knjaževac, tel.069/618331,
E: aming.projekt@gmail.com;
PIB: 110 045 226; Mat.br. 64607880; Šif. del. 7112

Agencija za projektovanje AMING PROJEKT iz Knjaževca je osnovana\ 2017. godine.

Stručan kadar sa značajnim iskustvom u oblasti projektovanja građevinskih konstrukcija zadužen je za realizaciju različitih projekata, a sve na zadovoljstvo klijenata. Iako mlada, agencija poseduje impozantne reference, koje se ogledaju u projektovanju građevinskih konstrukcija objekata bruto površine oko 200.000,00 m².

The agency AMING PROJEKT from Knjaževac was founded in 2017.

Personal staff with considerable experience in the field of structural design is responsible for the implementation of various projects, all to the satisfaction of the clients. Although young, the agency has impressive references, which are reflected in the design of building structures with a gross area of approximately 200.000,00 m².

Deo referenci / Some reference



Stambeno-poslovni objekat, ul. Cara Dušana, Niš
Residential and office building, Cara Dušana st., Niš



Stambeno-poslovni objekat, ul. Obilićev venac bb, Niš
Residential and office building, Obilićev venac st., Niš

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**SVECOM doo, Preduzeće za inženjering, spoljni u
unutrašnji promet,**
Ustanička 128a/III, Beograd

Kompanija SVECOM DOO BEOGRAD osnovana je 1991. godine u Beogradu sa aktivnostima u oblasti energetike, rudarstva, ekologije, gasne detekcije i drugim granama industrije.

Ukupan broj zaposlenih je oko 30 od čega je 25 u stalnom odnosu, dok je 5-6 eksperata angažovano na raznim projektima. Najveći broj zaposlenih su inženjeri različitih profila, zatim ekonomisti i menadžeri.

U oblasti energetike sa češkim partnerima **ZVVZ** kao i **PSP** realizovali smo isporuku i ugradnju elektrofiltera na TE Kostolac, TE Ugljevik, kao i isporuku i ugradnju dробiličnih postrojenja u REIK Kolubara i Kostolac.

U oblasti rudarstva u saradnji sa jednim od najvećih svjetskih proizvođača specijalnih čeličnih konstrukcija **ArcelorMittal** i **Liberty Ostrava** (Češka) opremamo rudnike sa podzemnom eksploatacijom čeličnim lučnim profilima (rudarska podgrada).

U oblasti gasne detekcije saradjujemo sa kompanijama **Teledyne-Oldham Simtronics** Francuska vodećim svjetskim proizvođačem stabilnih sistema gasne detekcije za industriju, **Trolex** Engleska-vodećim svjetskim proizvođačem stabilnih sistema za detekciju gasova u rudnicima sa podzemnom eksploatacijom kao i sa **Industrial Scientific** USA. Vodećim svjetskim proizvođačem u oblasti mobilnih gasnih detektora.

Oblast delovanja je detekcija eksplozivnih i toksičnih gasova u rudnicima sa podzemnom eksploatacijom, industrijskim postrojenjima, čeliščanama, pogonima za proizvodnju veštačkog đubriva kao i skladištima tečnog naftnog gasa.

Iz oblasti gasne detekcije posedujemo sertifikat o akreditaciji izdat od ATS a kao i rešenje MUP a koji nam omogućava kontrolisanje instalacija posebnih sistema za detekciju eksplozivnih i zapaljivih gasova.



Bregava d.o.o.
Dunavska BB, 11158 Palilula, Beograd
Kontakt telefon: +38163445253
E-mail: bregavabg@sezampro.rs

Firma je osnovana 1995. godine i na početku svog poslovanja preduzeće se bavilo prodajom građevinskog materijala. U kasnijoj fazi poslovanja, preduzeće je počelo da se bavi obradom gvožđa i proizvodnjom armaturnih mreža u skladu sa zahtevima tržišta. Osnivač i vlasnik firme je Saša Kresović čije dugogodišnje iskustvo i znanje predstavlja siguran oslonac za budući razvoj. Preduzeće Bregava doo posvećeno je očuvanju konstantnog kvaliteta svojih proizvoda, tehnološkom unapređenju proizvodnog procesa, kao i održavanju dobrih poslovnih odnosa sa kupcima i dobavljačima. Svoju reputaciju gradili smo na kvalitetu svojih proizvoda i na pouzdanim i dugoročnim poslovnim odnosima. Nakon više od 25 godina uspešnog poslovanja na tržištu, možemo se pohvaliti učešćem u velikom broju projekata kao što su Delta City, Ada Mall, TC Galerija, Skyline, Termoelektrana Nikola Tesla, više objekata u sklopu naselja Belgrade Waterfront i Airport city kao i u velikom broju stambenih objekata.

Ponosimo se učešćem na svim dosadašnjim projektima, ali pre svega poslovnim odnosima koje smo gradili dugi niz godina jer su oni odlika naše pouzdanosti, profesionalizma i kvaliteta.