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## PREFACE

The proceedings contain 80 conference papers presented at the 35th conference **Computational Mechanics 2019**, which was held at the Hotel Srní and Šumava in Srní, Czech Republic, on November 4 – 6, 2019. This annual conference, which was attended by over one hundred participants from the Czech Republic, Slovakia and from abroad, was organised by the Department of Mechanics, Faculty of Applied Sciences of the University of West Bohemia under the auspices of

- Vlasta Radová, the Dean of the Faculty of Applied Sciences,
- Ivana Bartošová, the Vice-President of the Pilsen Region for Education and Tourism,
- Czech Society for Mechanics,
- Czech National Committee of IFToMM,
- Central European Association for Computational Mechanics.

The main objective of this traditional conference is to bring together academicians, researchers and industrial partners interested in relevant disciplines of mechanics including

- solid mechanics,
- dynamics of mechanical systems,
- mechatronics and vibrations,
- reliability and durability of structures,
- fracture mechanics,
- mechanics in civil engineering,
- fluid mechanics and fluid-structure interaction,
- thermodynamics,
- biomechanics,
- heterogeneous media and multiscale problems,
- experimental methods in mechanics,

to create an opportunity for meeting, discussion and collaboration among the participants. As in the previous years, the three best papers presented at this conference were awarded the Czech Society for Mechanics Award for young researchers under 35 years of age.

To all conference participants, we offer the possibility to publish their peer-reviewed full papers in the international journal **Applied and Computational Mechanics** indexed by Scopus. This journal has been published by the University of West Bohemia since 2007 (see <https://www.kme.zcu.cz/acm/>).

We would like to express our gratitude to all the invited speakers for their significant contribution to the conference and the time and effort they put. Considerable acknowledgement belongs also to the members of the Organising Committee for their important work.

We strongly believe that all participants of the CM2019 enjoyed their stay in the beautiful nature of the Šumava region in a meaningful way. Finally, we would like to invite you all to come to the next conference CM2020.

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## Table of Contents

Balon A., Šika Z.: <i>Optimization and control of mechatronic tensegrity for robotics</i> . . . . .	1
Beneš P., Šika Z., Hromčík M., Svoboda F., Balon A.: <i>SHAVO control of a morphing wing</i> . . . . .	4
Běťák V.: <i>Comparison of two numerical approaches for simulation of fire with radiative heat transfer into solid walls</i> . . . . .	6
Bittner V., Maršík F.: <i>Mathematical model for determining the viscoelastic properties of soft tissues using indentation tests</i> . . . . .	10
Brož P.: <i>Structural elements of multifloor frames</i> . . . . .	14
Brůha J., Zeman V.: <i>Vibration analysis of a turbine blading with frictional inter-blade couplings</i> . . . . .	18
Bublík O.: <i>Fast pressure prediction along the NACA airfoil using the convolution neural network</i> . . . . .	22
Bulín R.: <i>Overview of absolute nodal coordinate formulation and usage of recently formulated finite elements</i> . . . . .	26
Čečrdle J.: <i>Whirl flutter-related certification of turboprop aircraft</i> . . . . .	30
Cimrman R., Vackář J., Novák M.: <i>Optimization of pseudopotentials for electronic structure calculations</i> . . . . .	34
Denk P., Šika Z., Steinbauer P., Macek J., Morkus J.: <i>The optimization of the driving power distribution between power units of the HEV powertrain based on the velocity profile</i> . . . . .	37
Dlhý P., Poduška J., Náhlík L., Berer M., Gosch A., Pinter G., Hutař P.: <i>Fracture mechanics description of the defect in rolling cylinder</i> . . . . .	40
Dohnal M., Šebík M., Sedlář T.: <i>Split Hopkinson Bar technique in a tensile test</i> . . . . .	42
Dvořák V., Moro G., Lampa J.: <i>Experimental investigation of fan for personal protection equipment – influence of number of blades</i> . . . . .	46
Dyk Š., Rendl J., Smolík L.: <i>Methods for linearized analysis of floating ring bearings</i> . . . . .	50
Fischer C., Náprstek J.: <i>Sensitivity of the generalized van der Pol equation to sub- or super-harmonic resonance</i> . . . . .	52
Fürst J., Halama J., Hric V.: <i>Numerical simulation of non-equilibrium wet steam flow in a turbine cascade</i> . . . . .	56
Hajžman M., Bulín R., Dyk Š.: <i>Multibody modelling and numerical simulations in drive train dynamics of road vehicles</i> . . . . .	60
Halamka V., Šika Z., Moravec J., Beneš P.: <i>Optimization of velocity feedback control parameters of machine tools drive axis</i> . . . . .	62
Handrik M., Vaško M., Sága M., Majko J.: <i>Structural analysis of parts made by 3D printing reinforced with long fibers</i> . . . . .	64

Heczko J., Kottner R.: <i>Rubber ageing at elevated temperature – model calibration</i> . . . . .	68
Houdek V., Verlinden O., Hajžman M.: <i>Interpolation of suspension kinematics for the purpose of vehicle dynamics simulation</i> . . . . .	72
Hračov S., Macháček M., Michálek P.: <i>Study of aeroelastic interference effect among four cylinders arranged in rectangular configuration</i> . . . . .	76
Jansová M., Malotín T., Křen J., Votápek P., Lobošský L., Hynčík L.: <i>A comparative analysis of four implants used to treat a supracondylar periprosthetic fracture of osteoporotic femur</i> . . . . .	80
Kába O., Adámek V., Kroft R.: <i>Application of semi-analytical solution for transient wave propagation in 1D layered medium to various optimisation problems</i> . . . . .	82
Kaňáková S., Kottner R., Bońkowski T.: <i>Influence of elevated temperature on motorcyclist protective equipment</i> . . . . .	85
Karlíček J., Šika Z.: <i>3-DOF planar manipulator utilizing compliant joints with variable stiffness</i> . . . . .	89
Klesa J.: <i>Influence of distributed electrical propulsion (DEP) on wing airfoil characteristics</i> . . . . .	91
Kolínková A., Špička J.: <i>Utilization of virtual human body model Virthuman in the mountaineering safety</i> . . . . .	93
Kratochvíl A.: <i>Flutter problems of electrically powered aircraft</i> . . . . .	95
Kraus K., Šika Z.: <i>LQR control of multi-DoF absorber for planar robots</i> . . . . .	99
Krejčová M., Světlík P.: <i>Feedback control of myosin head</i> . . . . .	101
Kruisová A., Kolman R., Mračko M.: <i>Dispersion errors for wave propagation in thin plate due to the finite element method</i> . . . . .	105
Kuželka J., Španiel M., Doubrava K.: <i>Fire ladder test simulation</i> . . . . .	109
Lasota M., Šidlof P.: <i>Computational aeroacoustics in a human vocal tract</i> . . . . .	112
Malá A., Kulíšek V., Schmidová N., Zámečníková T., Ponížil T., Mareš T.: <i>Finite element analysis of composite tubes with integrated loop connections</i> . . . . .	114
Medúna O., Kult J., Hisem P., Pomp N., Klouček P.: <i>Protective helmet behavior under dynamic load</i> . . . . .	117
Molčan M., Ferfecki P., Zapoměl J.: <i>Demonstration of the developed procedure for the computation of the nonlinear steady-state response on practical examples</i> . . . . .	119
Moravcová F., Lukeš V., Rohan E.: <i>Sensitivity analysis for an almost periodic unsteady flow problem; application to turbo-machinery modelling</i> . . . . .	123
Moravec, J., Šika, Z.: <i>Tuning of position control loop of machine tools based on experimentally identified mechanical model</i> . . . . .	127
Murín J., Aminbaghai M., Hrabovský J., Kutiš V.: <i>Influence of longitudinal variability of material properties in non-uniform torsion of FGM beams</i> . . . . .	129

Musil J., Příhoda J., Fürst J.: <i>Effect of various boundary conditions on the supersonic flow through the tip-section turbine blade cascade with a flat profile</i> . . . . .	133
Nad' M., Kolíková L., Šimon Š., Rolník L.: <i>Ultrasonic stepped horn design with adaptive modal properties</i> . . . . .	136
Náprstek J., Fischer C.: <i>System response with random imperfections in coefficients on the space of realizations</i> . . . . .	138
Oplt T., Hutař P., Pokorný P., Náhlík L., Berto F.: <i>Fatigue crack front curvature due to the plasticity induced crack closure</i> . . . . .	142
Padovec Z., Sedláček R., Zámečníková T.: <i>Experimental and numerical evaluation of composite part strength</i> . . . . .	145
Pavlata P.: <i>Use of FEM in traffic accident analysis</i> . . . . .	148
Poduška J., Hutař P., Nezbedová E., Šebek F., Náhlík L.: <i>Modelling of large plastic deformation of polyethylene for geomembranes</i> . . . . .	151
Poláček L., Valášek M.: <i>Energy saving of bipedal walking mechanism</i> . . . . .	153
Polach P., Smolík L., Rendl J., Hajžman M.: <i>Self-excited and flow-induced vibrations of a rotor supported on journal bearings</i> . . . . .	156
Prausová H., Bublík O., Vimmr J., Hála J., Luxa M.: <i>Numerical and experimental investigation of compressible viscous fluid flow in minichannels</i> . . . . .	160
Rendl J.: <i>Galerkin method for approximate modelling of finite-length journal bearings</i> . . . . .	164
Rolník L., Nad' M., Kolíková L., Ďuriš R.: <i>Application of structural modification for beam vibration control</i> . . . . .	166
Rosenberg J., Krejčová M., Nalos L., Jarkovská D., Štengl M.: <i>Application of the entropy based criteria on the ECG analysis</i> . . . . .	168
Rudolf P., Bossio A.: <i>Lagrangian tracking of cavitation bubble</i> . . . . .	172
Růžička M., Papuga J., Lutovinov M., Karkulín A.: <i>Influence of notches on mechanical properties of machine parts</i> . . . . .	176
Sága M., Handrik M., Vaško M., Kopas P., Sapietová A., Jakubovičová L.: <i>Contribution to computational analysis of tightness prediction of complex technical systems</i> . . . . .	180
Šika Z., Kraus K., Krivošej J., Denk P.: <i>Planar and spatial active resonator absorbers for robotics</i> . . . . .	184
Slávik O., Hutař P., Gosch A., Berer M., Vojtek T., Arbeiter F., Pinter G., Náhlík L.: <i>Lifetime estimation of polyoxymethelene under mixed-mode loading conditions</i> . . . . .	186
Špirk S., Vychytil J.: <i>The most dangerous factors for child passenger collisions in the interior of a rail vehicle</i> . . . . .	188
Steinbauer P., Neusser Z., Bukovský I.: <i>Vibration-based health monitoring of lighting poles</i> . . . . .	190



Štorkán J., Vampola T., Dušková-Smrčková M., Dušek K.: <i>Modelling of swelling and deformations of homogeneous hydrogel</i> . . . . .	193
Straka P.: <i>Numerical simulation of the one-and-half axial turbine stage properties</i> . . . . .	197
Sváček P.: <i>On modelling and simulation of flow in the vocal tract with consideration of the glottis closure</i> . . . . .	201
Tinoco H., Cardona C.: <i>Loading condition monitoring on trusses applying a machine learning approach with training data of a finite element model: A study case</i> . . . . .	205
Trávníček L., Arbeiter F., Dlhý P., Spoerk M., Náhlík L., Hutař P.: <i>Fatigue crack propagation in a component produced by additive manufacturing of polymer materials</i> . . . . .	207
Uruba V., Procházka P., Skála V.: <i>On 3D dynamical structure of the wake behind circular cylinder</i> . . . . .	210
Valášek J., Sváček P., Horáček J.: <i>The influence of penalization inlet boundary condition on the stability boundary</i> . . . . .	212
Vaško M., Sága M., Handrik M., Ságová Z.: <i>Methodology of prediction of dilatation gap between aluminum segments of vulcanization molds based on thermal-stress analysis</i> . . . . .	216
Voldřich J., Morávka Š.: <i>Hydrodynamically lubricated contact between axial rings of the pinion and the wheel of a high-speed gearbox: Contribution to numerical assessment</i> . . . . .	220
Volech J., Šika Z., Hromčík M., Svoboda F., Zavřel J.: <i>Vibration suppression and shape change of thin plate by clusters of actuators</i> . . . . .	224
Vrána J., Pochylý F.: <i>Use of dynamic damper in hydromechanics</i> . . . . .	227
Vychytil J., Špírk S.: <i>Numerical analysis of a passenger safety during a railway vehicle collision: The effect of safety belts</i> . . . . .	231
Winter O., Sváček P.: <i>Numerical approximation of fluid flow problems by discontinuous Galerkin method</i> . . . . .	233
Yousefghahari B., Vahidi-Shams A., Sekoyan D., Guran A.: <i>Clinical gait analysis of a 16 years old patient with walking difficulties after surgery</i> . . . . .	236
Žák J.: <i>Problematics of large batch winding of technical fabrics</i> . . . . .	240
Zapoměl J., Ferfecki P.: <i>Design concepts of controllable hydrodynamic bearings lubricated by magnetically sensitive oils for the vibration control of rotors</i> . . . . .	244
Zavřel J., Michalák M., Vampola T.: <i>3D printer modification for printing of HEMA hydrogel</i>	246
Zeman V., Hlaváč Z.: <i>Generalized modal reduction method in dynamics of mechanical systems</i>	250
Zrůbek L., Doškář M., Kučerová A.: <i>Local tilings informed synthesis of micro-mechanical fields by means of Wang tiles</i> . . . . .	254