

Assignment to DSTA 2021 sessions

(in ID alphabetical order)

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ASY 022	Mikhail Garbuz, Liubov Klimina*, Vitaly Samsonov	<i>Wind powered plantigrade machine moving against a flow</i>	S3a
ASY 024	C. Da Silveira Zanin*, A. Ture Savadkoohi, S. Baguet, R. Dufour	<i>Energy exchanges in a nonlinear meta-cell</i>	R31
ASY 066	Klaus Zimmermann, Igor Zeidis, Simon Gast*, Nina Prem, Stefan Odenbach, Kare Gowda	<i>An approach to the modeling and simulation of multi-layered and multi-stimulable material for application in soft robots</i>	R31
ASY 131	Yuri V. Mikhlin*, Yuliia E. Surganova	<i>Nonlinear normal modes and localization of vibrations in the pendulum system under magnetic excitation</i>	R22
ASY 139	Yulia Danik, Mikhail Dmitriev*	<i>Algorithm for suboptimal feedback construction based on Padé approximation for nonlinear control problems</i>	R13
ASY 143	Rustyam Akhmetov	<i>The asymptotic solutions of the boundary value problem of convective diffusion around drops with volumetric nonlinear chemical reaction</i>	R13
ASY 182	Robert Salamon*, Grażyna Sypniewska-Kamińska, Henryk Kamiński	<i>Application of multiple scales method to the problem of plane pendulum motion with extended damping model</i>	R31
ASY 192	J. Kaplunov, D.A. Prikazchikov, L. Prikazchikova*	<i>Rayleigh-type waves in nonlocal elasticity</i>	R34
ASY 228	Alexander Koshelev, Eugene Kugushev, Tatiana Shahova*	<i>Dynamics of a low-inertia ball located between two rotating planes with viscous friction</i>	S3a
ASY 247	D. Paul*, K. R. Jayaprakash	<i>Nonlinear oscillations of an elastica between cylindrical boundaries</i>	R13
ASY 249	Grażyna Sypniewska-Kamińska*, Jan Awrejcewicz	<i>Identification of the model parameters based on the ambiguous branches of resonance response curves</i>	R31
ASY 273	M.K. Abohamer*, J. Awrejcewicz, R. Starosta, T.S. Amer, M.A. Bek	<i>Modelling and analysing of a spring pendulum motion in the presence of energy harvesting devices</i>	R13
ASY 304	Rahul Das*, Anil K. Bajaj, Sayan Gupta	<i>Performance of a nonlinear energy sink coupled with a nonlinear oscillator for energy harvesting applications</i>	S6b
ASY 326	Pavel Udalov *, Ivan Popov, Alexei Lukin	<i>Estimation of the amplitudes of parametric oscillations of a hemispherical solid-wave gyroscope</i>	R35
ASY 343	V.S. Igumnova *, A.V. Lukin, I.A. Popov, L.V. Shtukin	<i>Synchronization of oscillations of weakly coupled elastic elements of a differential resonant MEMS-accelerometer in the mode of a two-circuit self-oscillator</i>	R9
ASY 352	Jan Awrejcewicz, Roman Starosta*, Grażyna Sypniewska-Kamińska	<i>Vibration of the system with nonlinear springs connected in series</i>	R13
ASY 376	Alessandro Fortunati*, Andrea Bacigalupo, Marco Lepidi, Andrea Arena, Walter Lacarbonara	<i>Nonlinear wave propagation in one-dimensional metamaterials via Hamiltonian perturbation scheme</i>	R31
BIF 011	Antonio Zippo*, Francesco Pellicano, Giovanni Iariccio	<i>Experiments of shells with non-newtonian fluid interaction</i>	S4
BIF 034	Sergii Skuratovskiy, Grzegorz Kudra*, Krzysztof Witkowski, Grzegorz Wasilewski, Jan Awrejcewicz	<i>Nonlinear dynamics of forced oscillator subjected to a magnetic interaction</i>	R18
BIF 046	Mauricio A. Ribeiro, Angelo M. Tusset, Wagner B. Lenz, José M. Balthazar*, Grzegorz Litak	<i>On non-ideal and fractional dynamics of a magneto piezoelectric oscillator with Bouc-Wen damping to harvesting energy</i>	S2a
BIF 051	Leandro R. de Oliveira*, José M. Balthazar, Airton Nabarrete, Átila M. Bueno, Angelo M. Tusset, Eduardo A. Petrocino	<i>Some remarks on experimental analysis of a non-ideal conveyor belt</i>	S2a
BIF 065	Minh-Tuan Nguyen-Thai*, Paul Wulff, Nils Gräbner, Utz Von Wagner	<i>On the dynamics of a 2-DOF nonlinear vibratory system with bistable characteristic and circulatory forces</i>	R15

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BIF 075	Vasyl Martsenyuk*, Krzysztof Augustynek, Andrzej Urbaś	<i>On qualitative analysis of the model of two-link manipulator with time delays: stability, bifurcation and transition to chaos</i>	R18
BIF 079	Zeljko Stojanovic*, Denis Pelin	<i>Increase in current stresses of the boost converter due to border collision bifurcation</i>	R18
BIF 082	Nikolai Magnitskii	<i>Dynamical chaos in Hamiltonian systems with three degrees of freedom</i>	R15
BIF 091	Laura Ruzziconi*, Nizar Jaber, Lakshoji Kosuru, Mohammed L. Bellaredj, Mohammad I. Younis	<i>Internal resonance induced in the impacting dynamics in a MEMS device</i>	R10
BIF 103	Angelo M. Tusset*, Dim Pires, Giane G. Lenzi, Itamar Iliuk, Rodrigo T. Rocha, Jose M. Balthazar	<i>Piezoelectric vibration energy harvesting from a portal frame with a shape memory alloy</i>	S2e
BIF 104	Juliana C. Lacerda, Celso Freitas, Elbert Macau*	<i>Multistability in remote synchronization detected via symbolic dynamics</i>	R10
BIF 109	Ewelina Ogińska*, Dariusz Grzelczyk, Jan Awrejcewicz	<i>Research of the dynamics of a physical pendulum forced with an elec tromagnetic field</i>	R18
BIF 148	Mauricio A. Ribeiro, Angelo M. Tusset, Wagner B. Lenz, José M. Balthazar*, Grzegorz Litak	<i>On non-linear dynamics behaviour of a fixed offshore platform for energy harvesting</i>	S2e
BIF 170	Viktor Avrutin, Frank Bastian*, Lasse von Schwerin-Blume, Zhanybai T. Zhusubaliyev, Abdelali El Aroudi	<i>A geometric approach to bifurcation- and noise-induced bubbling</i>	S5a
BIF 172	Petr Sosna*, Zdenek Hadas	<i>Bifurcation analysis of nonlinear piezoelectric vibration energy harvester</i>	R10
BIF 183	Eren Tosyalı*, Fatma Aydogmus	<i>Chaos in Thirring model</i>	R15
BIF 184	Denis Blackmore	<i>Generalized Neimark-Sacker bifurcations</i>	R10
BIF 195	Maaita Jamal-Odyseas*, Prousalis Dimitris, Volos Christos, Meletlidou Efthymia	<i>The dynamics of two coupled oscillators with the same damping term</i>	R15
BIF 198	Grzegorz Kudra, Krzysztof Witkowski, Soumyajit Seth*, Krystian Polczyński, Jan Awrejcewicz	<i>Parametric vibrations of a system of oscillators connected with periodically variable stiffness</i>	R15
BIF 218	R.H. Avançaço*, D. A. Zanella, R. De Jesus A. Cantillo, A. Cunha Jr., J. M.Balthazar, A. M.Tusset	<i>The influence of the inductance on the nonideal vibrations of a pendulum coupled to a DC motor</i>	S2a
BIF 227	Alexander Ruchkin, Constantin Ruchkin*	<i>Method of adaptive bacterial foraging optimization for detection and locating periodic and multi-periodic orbits</i>	R15
BIF 251	José D. Morcillo*, Juan-Guillermo Muñoz, Gerard Olivar-Tost	<i>Non-smooth dynamics in ramp-controlled and sine-controlled buck converters</i>	S5b
BIF 254	Roberto De Leo*, James A. Yorke	<i>Infinite towers in the graph of a dynamical system</i>	R10
BIF 256	Valeria Settimi*, Giuseppe Rega	<i>Global dynamics of thermomechanically coupled plates</i>	S4
BIF 288	Carlos M. Escobar-Callejas, Gerard Olivar-Tost*	<i>Zip bifurcation in PWSC systems</i>	S5a
BIF 311	Sergio Elaskar, Ezequiel Del Río*, Walkiria Schulz	<i>Evaluation of the reinjection process in type V intermittency</i>	R18
CON 013	Krzysztof Sokół, Maciej Pierzgałski*	<i>Vibrations of an active rocker – bogie suspension under motion in rough terrain</i>	R11
CON 041	Marcell Ákos Bartos*, Giuseppe Habib	<i>Hybrid vibration absorber for self-induced vibration mitigation</i>	R17
CON 049	Wojciech Paszkowiak*, Marcin Pelic, Tomasz Bartkowiak	<i>Neural network modelling for steering control of an automated guided logistic train</i>	R11
CON 050	Angelo M. Tusset*, Marcos Gonçalves, Calequela J. T. Manuel, José M. Balthazar, Giane G. Lenzi	<i>Passive vibration control of a high-speed elevator system</i>	S2d
CON 054	Ke Ye, Jinhui Jiang *	<i>Experimental research on active vibration control of elastic plate and damage degradation of actuator</i>	R14

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CON 059	Krzysztof Kuliński*, Jacek Przybylski	<i>Nonlinear vibrations of a sandwich piezo-beam system under piezoelectric actuation</i>	R14
CON 061	Paweł Latosiński*, Andrzej Bartoszewicz	<i>Reference model trajectory tracking in continuous-time sliding mode control</i>	R37
CON 098	Mirosław Gidlewski, Leszek Jemioł, Dariusz Żardecki *	<i>Model based investigations of an integrated control system for automatic lane change in critical conditions</i>	R17
CON 105	Mirosław Gidlewski, Leszek Jemioł, Dariusz Żardecki *	<i>Modeling and simulation of the automated lane change process, taking into account freeplay and friction in the vehicle steering system</i>	R17
CON 115	Marat Dosaev	<i>Control algorithm of a vibrating robot with a flywheel and unbalance with limited angular acceleration</i>	S3a
CON 128	Dębowski Andrzej, Faryński Jakub, Żardecki Dariusz*	<i>Reference models of the 4WS vehicle lateral dynamics for the synthesis of steering algorithms</i>	R37
CON 136	Leon Prochowski, Patryk Szwajkowski*, Mateusz Ziubiński	<i>Can the prognosis of the results of the crash be the basis to steering the autonomous vehicle with the trailer in the critical situation?</i>	R17
CON 141	Elżbieta Jarzębowska*, Krzysztof Augustynek, Andrzej Urbaś	<i>Motion tracking of a rigid-flexible link manipulator in a controller failure condition</i>	S2d
CON 156	David Angulo-García*, Fabiola Angulo	<i>Control of microrgrid synchronization based on feedback control and optimization techniques</i>	R17
CON 158	Magdalena Sangeorzan, Eva-H. Dulf*	<i>Fractional order controllers for twin rotor aerodynamical system</i>	S1
CON 159	Ruben Capeans, Gaspar Alfaro, Miguel A. F. Sanjuan*	<i>Partial control and beyond: forcing escapes and controlling chaotic transients with the safety function</i>	R11
CON 160	Cezary Graczykowski*, Rami Faraj	<i>Predictive control of semi-active fluid-based dampers under impact excitation</i>	R17
CON 164	Marcian Mihai*, Isabela Birs, Cristina I. Muresan, Eva Dulf, Robin De Keyser	<i>Comparisons and experimental validation of several autotuning methods for fractional order controllers</i>	S1
CON 191	Marcin Kłak*, Elżbieta Jarzębowska	<i>Guidance and control system design for a free-flying space manipulator based on a dynamically equivalent manipulator</i>	S2d
CON 194	Maria Aline Gonçalves*, José M. Balthazar, Elżbieta Jarzębowska, Ângelo M. Tusset, Maurício A. Ribeiro, Hilson H. Daŭm	<i>On a nonlinear and non-ideally excited tank</i>	S2d
CON 201	James F. Whidborne*, Elżbieta Jarzębowska, Varul Agarwal, A. Afiz Ishola	<i>Manipulator-aircraft dynamical system dedicated for wind tunnel testing</i>	S2e
CON 203	Igor Ananievski	<i>Damping of vibrations of an elastic beam by means of an active dynamic damper in the presence of disturbances</i>	R14
CON 210	P. Schorr*, M. Ebnet, K. Zimmermann, V. Böhm	<i>Dynamic modeling of a rolling tensegrity structure with spatially curved members</i>	R37
CON 214	Marcin Mirosław*, Jakub Deda, Tomasz Mirosław	<i>The modelling of emergency dynamic braking system of electric vehicle</i>	R37
CON 215	Marcin Mirosław*, Jakub Deda, Tomasz Mirosław	<i>The modelling of autonomous control with hazard of measurement noise and errors</i>	R37
CON 222	Iulia Bunescu, Isabela Birs, Robain De Keyser, Cristina I. Muresan*	<i>A novel toolbox for automatic design of fractional order pi controllers based on automatic system identification from step response data</i>	S1
CON 231	José Agnelo Bezerra, João Francisco Silva Trentin*, Davi Antônio dos Santos	<i>Global sliding mode control for a fully-actuated non-planar hexa-rotor aerial vehicle</i>	S2d
CON 233	João Francisco Silva Trentin*, Davi Antônio dos Santos	<i>Global sliding mode control design for a 3D pendulum</i>	S2c
CON 237	Roland Zana*, Ambrus Zelei	<i>Experimental evaluation of an underactuated inverse dynamics control approach based on the method of Lagrange-multipliers</i>	R37
CON 239	Ounis Hadj Mohamed*, Abdeddaim Mahdi, Ounis Abdelhafid	<i>Design approach for isolated buildings in adequacy with algerian regulations and their comparison with several international codes</i>	R11
CON 244	I. S. Mamaev*, Yu. L. Karavaev, V. A. Shestakov	<i>Analysis of non-slipping conditions for Omni wheels based on investigations of the dynamics of a highly maneuverable mobile robot</i>	R14

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CON 305	Miriam Chillemi*, Thomas Furtmüller, Christoph Adam, Antonina Pirrotta	<i>Assessing the effect of different configurations of inerter-based devices for structural vibration control</i>	S6b
CON 306	Alexander Yu. Aleksandrov, Alexey A.Tikhonov*	<i>On the attitude stabilization of artificial Earth satellite in the natural electromagnetic coordinate system</i>	S3a
CON 308	Vinod V.*, Bipin Balaram	<i>Strategies for amplitude control in a ring of self-excited oscillators</i>	R14
CON 313	Breifni Fitzgerald*, Saptarshi Sarkar	<i>Inerter-based dampers for vibration control of floating offshore wind turbines</i>	S6b
CON 329	Alexander Yu. Aleksandrov, Alexey A.Tikhonov *	<i>On the triaxial electrodynamic attitude stabilization of a satellite in the orbital frame via control with distributed delay</i>	S3a
CON 330	Fideliu Paulet-Crainiceanu*, Vitalie Florea, Septimiu George Luca, Cristian Pastia, Octavian Victor Rosca	<i>Analysis of practical application aspects for an active control strategy to civil engineering structures</i>	R14
CON 331	Jorge A. Ricardo Jr.*, Davi A. Santos	<i>Super-twisting sliding mode control for a formation of fully-actuated multirotor aerial vehicles</i>	S2b
CON 335	Jacek Jackiewicz	<i>Energy recovery hybrid system with the flywheel</i>	S2b
CON 345	Moris Kalderon*, Marina Kalogerakou, Andreas Paradeisiotis, Ioannis Antoniadis	<i>Locally resonant metamaterials utilizing dynamic directional amplification</i>	S6a
CON 351	Valery N. Pilipchuk, Krystian Polczyński, Maksymilian Bednarek*, Jan Awrejcewicz	<i>Energy flow control in a system of coupled pendulums using magnetic field</i>	R11
CON 368	Alexander V. Glushkov, Valentin B. Ternovsky*, Oleksii L. Mykhailov, Andrey V. Tsudik	<i>Optimal control of resonance radiation processes in laser isotopes separation systems and devices</i>	R7
CON 379	Juan J. Gude*, Pablo García Bringas	<i>Proposal of a control hardware architecture for implementation of fractional-order controllers</i>	S1
ENG 038	Jaroslav Zapoměl*, Petr Fernecki, Jan Kozánek	<i>Reducing amplitude of nonlinear vibration of rotors induced by imbalance forces and the disc collisions using magnetically sensitive fluids</i>	S2a
ENG 043	Asghar Faramarzi Babadi*, Yaghoub Tadi Beni, Krzysztof Kamil Żur*	<i>On the flexoelectric effect on nonlinear vibration of three-layered functionally graded cylindrical microshells</i>	S2c
ENG 063	Krzysztof Kęcik*, Andrzej Mitura	<i>Modelling of an Electromechanical Coupling in Magnetic Levitation Energy Harvester</i>	R5
ENG 070	R.H. Avanço*, D. A. Zanella, R. De Jesus A. Cantillo, A. Cunha Jr., J. M.Balthazar, A. M.Tusset	<i>Discussion on the influence of the inductance in the nonlinear dynamics of DC motors in coupled systems</i>	S2c
ENG 078	Krzysztof Kęcik*, Andrzej Mitura	<i>Nonlinear dynamics of a 2DOF magneto-mechanical harvester</i>	R5
ENG 089	Juraj Králík	<i>Probabilistic analysis of npp seismic load considering the local site effects</i>	R5
ENG 093	Ivan Shatskyi*, Vasyl Perepichka	<i>Shock torsion wave in an elastic rod with decreasing function of viscoplastic external friction</i>	S3b
ENG 094	Ivan Shatskyi*, Mykola Makoviichuk, Maksym Vaskovskyi	<i>Transversal straining of pressurized pipeline caused by vibration of damaged foundation</i>	S3b
ENG 100	Engin Kandiran* , Avadis Hacinliyan	<i>Continuous dynamical systems as pseudo random number generator</i>	R3
ENG 107	Marat Dosaev*, Vitaly Samsonov	<i>Sliding of tabouret with elastic legs on a rough surface under the action of a small lateral force</i>	S3b
ENG 111	Krystian Polczyński*, Maksymilian Bednarek, Jan Awrejcewicz	<i>Magnetic oscillator under excitation with controlled initial phase</i>	R8
ENG 120	Bartłomiej Ambrozkiewicz*, Grzegorz Litak*, Anthimos Georgiadis, Arkadiusz Syta, Nicolas Meier, Alexander Gassner	<i>Study on dynamical response of double-row self-aligning ball bearing (SABB) considering different radial internal clearance (RIC)</i>	R5
ENG 129	Yuri V. Mikhlin*, Yana O. Lebedenko	<i>Resonance regimes in the non-ideal system having the pendulum as absorber</i>	S2a

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ENG 174	W. Bielski, P. Kowalczyk, R. Wojnar	<i>Two-temperature heat transfer in a metal and a longitudinal elastic wave generation</i>	R8
ENG 213	V. Böhm, P. Schorr*, J. Chavez, L. Zentner	<i>Structural analyses of compliant tensegrity towers</i>	R8
ENG 217	Andrzej Rysak, Martyna Sedlmayr	<i>Application of the differential transform method to the study of the Duffing system with fractional damping and stiffness</i>	R2
ENG 224	Alfons Ams	<i>Simulation of road surface profiles by a stochastic parametrical model</i>	R2
ENG 245	Przemysław Nosal*, Artur Ganczarski	<i>Application of the discrete element method to ductile materials subjected to dynamic loads</i>	R8
ENG 271	Łukasz Kłoda*, Stefano Lenci, Jerzy Warmański, Zofia Szmít	<i>Transversal-transversal internal resonances in planar Timoshenko beams with an elastic support</i>	R2
ENG 272	Azhar Ali Zafar*, Jan Awrejcewicz	<i>Influence of fractional order parameter on the dynamics of different vibrating systems</i>	S1
ENG 279	Andrea Burlon*, Giuseppe Failla	<i>On the dynamics of high-order beams with vibration absorbers</i>	S6c
ENG 280	Tassos Bountis*, Konstantinos Kaloudis, Joniald Shena, Charalampos Skokos, Christos Spitas	<i>Energy transport in 1-dimensional oscillator arrays with hysteretic damping</i>	R2
ENG 334	Andrea Burlon*, Mario Di Paola, Vincenzo Sucato	<i>Non-stationary stochastic dynamics analysis of structural systems equipped with fractional viscoelastic device</i>	S6c
ENG 361	Alyona Lovska*, Oleksij Fomin, Grzegorz M. Szymański, Dmytro	<i>Determination of the loading of an open car with filler in the center sill</i>	R2
EXP 055	Naoto Nishiyama*, Kiyotaka Yamashita	<i>Simple suppression method of impact oscillations between a panto graph and an overhead rigid conductor line</i>	R26
EXP 080	Shyh-Shin Hwang*, Hai-Mei Li, Xing-Yuan Chen	<i>Study on the property of microcellular injection molded HDPE/wheat straw composites</i>	S3b
EXP 117	Jakub Augustyniak*, Dariusz M. Perkowski*, Izabela Zglobicka	<i>Gas bubble trajectory in nanofluid</i>	R26
EXP 151	Alexandru-George Berciu*, Eva Henrietta Dulf, Dacian Jurj, Levente Czumbil, Dan Doru Micu	<i>Energy pulse: competitive and accessible application for monitoring electricity consumption</i>	S1
EXP 168	Anna Jaskot*, Bogdan Posiadala	<i>Modelling of motion and experimental studies of a four-wheeled mobile robot considering slip occurrence</i>	R26
EXP 180	Julia Milewicz*, Tomasz Nowakowski, Grzegorz M. Szymański	<i>Determination of dynamic parameters of parts of a tram wheel in a numerical and experimental modal analysis</i>	R28
EXP 199	Virgil-Florin Duma*, Gheorghe Hutiu, Alexandru-Lucian Dimb, Dorin Demian, Adrian Bradu, Adrian Podoleanu	<i>Roughness evaluations for metallic parts using optical coherence tomography (OCT)</i>	R28
EXP 206	Ingrid Pires*, Helon Vicente Hultmann Ayala, Hans Ingo Weber	<i>Nonlinear system identification of an experimental drill-string setup</i>	S2b
EXP 219	Jussara Dias*, Elbert Macau	<i>A new index for topological vulnerability in power transmission net works</i>	R16
EXP 236	Václav Houdek*, Zdeněk Kubín, Luboš Smolík	<i>Impact point localization with the use of wavelet transform</i>	R16
EXP 268	Eligiusz Postek*, Tomasz Sadowski	<i>Compressive impact of SiC foam</i>	R16
EXP 275	Andreas Paradeisiotis*, Konstantinos Tsioumanis, Ioannis Antoniadis	<i>Experimental prototype of a KDamper vibration absorber for small vertical loads utilizing compliant joints</i>	S6c
EXP 277	Artur Borowiec*, Daniel Szynal, Łukasz Szyszka	<i>Measurement of dynamic parameters of composite columns</i>	R16
EXP 295	Jean-Emmanuel Chambe*, Miguel Charlotte, Yves Gourinat	<i>Vibration analysis of a fully- and partially-filled container – application to cryogenic tank characterization and dynamic behavior</i>	R16

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EXP 309	Mirosław Gidlewski, Leon Prochowski, Leszek Jemioł, Mateusz Ziubiński*	<i>The course of the process of a motor car frontal impact against various places of the second vehicle's body side an</i>	R28
EXP 310	Luca Sanguiliano*, Björn Reff, Jacopo Palandri, Friedrich Wolf Monheim, Bert Pluymers, Elke Deckers, Wim Desmet, Claus Claeys	<i>Low frequency tyre noise mitigation in a vehicle using metal 3D printed resonant metamaterials</i>	S6a
EXP 332	Kemal Arslan*, Recep Gunes	<i>Evaluation of stress wave propagation in particle-reinforced metal matrix composites</i>	R26
EXP 338	Mirosław Gidlewski, Tomasz Pusty*, Leszek Jemioł, Hanna Kochanek	<i>Determination of physical quantities describing the movement of objects involved in a frontal-side collision of vehicles</i>	R28
EXP 339	Witold Luty, Tomasz Pusty*	<i>Analysis of dynamic characteristics of vehicle steerability in the context of its diagnostics and evaluation of dynamic properties</i>	R26
EXP 353	Paweł Adamski*, Paweł Olejnik	<i>Drive-by-wire of a converted into electric car Syrena 105 enabling Hardware-In-Loop tests of driving</i>	R26
EXP 360	Daniel Mokrzan*, Tomasz Nowakowski, Grzegorz M. Szymański	<i>The application of time-frequency methods of acoustic signal processing in the diagnostics of tram drive components</i>	R28
LIF 023	Dariusz Grzelczyk, Olga Jarzyna*, Jan Awrejcewicz	<i>Design and simulation of a lower limb exoskeleton with linear electric actuators</i>	R33
LIF 106	Ivan Alpatov*, Marat Dosaev, Vitaly Samsonov, Ekaterina Vorobyeva, Vadim Dubrov	<i>An elastic rib modelling</i>	S3b
LIF 137	Leon Prochowski, Mateusz Ziubiński*, Krzysztof Dziewiecki, Patryk Szwajkowski	<i>Impact energy versus the hazards for the occupants during a front-to-side vehicles' collision</i>	R36
LIF 140	Rahil Valani*, Brendan Harding, Yvonne Stokes	<i>Bifurcations in inertial focusing of particles in curved rectangular ducts</i>	R33
LIF 188	Agata Mrozek*, Tomasz Stręk	<i>Design of auxetic damper for lower limb prosthesis</i>	R33
LIF 204	Liliána Zajcsuk*, Ambrus Zelei	<i>Correlation of biomechanic performace measures with acceleration and deceleration in human overground running</i>	R33
LIF 230	Natalya Kizilova	<i>Nonlinear dynamics, stability and control strategies: mathematical modeling on the big data analyses of COVID-19 in Poland</i>	R36
LIF 262	Björn Birnir	<i>The probability of infection, through aerosol transmission, by SARS-CoV-2 coronavirus</i>	R36
LIF 327	Antonina Pirrotta*, Andrea Evola, Alberto Di Matteo, Antonio Galvano, Antonio Russo	<i>Anti-vibration knob for the motorcycle, customizable on the basis of the driver's ergonomics</i>	S6c
LIF 336	Katica (Stevanović) Hedrih, Andjelka Hedrih*	<i>Nonlinear oscillations of a complex discrete system of rigid rods with mass particles on an elastic cantilever</i>	R20
LIF 347	Piotr Weber*, Piotr Beldowski, Adam Gadomski, Krzysztof Domino, Damian Ledziński	<i>Interaction of mucin with glycosaminoglycans in water environment</i>	R36
LIF 349	Piotr Beldowski*, Piotr Weber, Adam Gadomski, Krzysztof Domino, Rohit Prasad	<i>Interaction of albumin with chondroitin sulphate IV and VI, a molecular docking study</i>	R36
LIF 383	Larysa Dzyubak*, Oleksandr Dzyubak, Jan Awrejcewicz	<i>Conditions regulating tumor cell behaviour in biological systems with memory of states</i>	R33
LIF 384	Vitaliy Pavlenko, Tetyana Shamanina, Vladyslav Chori*	<i>Nonlinear dynamic model of the oculo-motor system human based on the Volterra series</i>	R33
MAT 009	Jing Wang*, Wim T. van Horssen	<i>On longitudinal oscillations in a hoisting cable with time-varying length subject to a nonclassical boundary condition</i>	R3
MAT 026	J. Flosi*, A. Ture Savadkoohi, C.-H. Lamarque	<i>Normal Form on nonlinear systems and Gröbner based exploitation of resonances</i>	R6
MAT 027	Krzysztof Szemela*, Wojciech Rdzanek , Jerzy Wiciak, Roman Trojanowski	<i>Sound radiation by a circular plate located on a wall of rectangular semi-infinite waveguide</i>	R6

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MAT 112	Oscar Sanchez Jimenez*, Emmanuel Pagnacco, Eduardo Souza De Cursi, Rubens Sampaio	<i>Study of the stochastic response of an offshore pile to a combined Mori son force induced by current and turbulence</i>	R12
MAT 113	Dariusz Żardecki*	<i>Non-smooth models of wheel-road interactions based on piecewise-linear luz(...) and tar(...) projections</i>	R12
MAT 123	Wojciech Rdzanek	<i>The effect of a shaker on the resonance frequencies of a circular plate</i>	R19
MAT 144	Andrzej Urbaś*, Krzysztof Augustynek, Vasyl Martsenyuk	<i>The influence of the load modeling methods on dynamics of a mobile crane</i>	R19
MAT 145	Josefina Antonijuan, Imma Massana , Gerard Olivar-Tost, Joana Prat, Enric Trullols*	<i>Bifurcations in piecewise-smooth systems associated to migration</i>	S5b
MAT 150	Krzysztof Augustynek*, Andrzej Urbaś, Vasyl Martsenyuk	<i>Dynamics analysis of the spatial mechanism with imperfections in the fifth-class kinematic pairs</i>	R19
MAT 152	Oleksandr Nakonechnyi, Vasyl Martsenyuk*, Aleksandra Klos-Witkowska, Luliia Shevchuk	<i>On minimax parameter estimation of nonlinear dynamic Brown's model for enzyme-substrate interaction with distributed delay</i>	R22
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MAT 200	Jan Awrejcewicz, Olga Mazur*	<i>Geometrically nonlinear vibrations of double-layered nanoplates</i>	R12
MAT 209	Jacek Leszczyński	<i>Sensitivity analysis of granular dynamics by the use of unique DEM</i>	R12
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MAT 212	Mariusz Osika*, Rafał Radecki, Aleksandra Ziaja-Sujdak, Wiesław J. Staszewski	<i>An insight into amplitude-dependend modulation transfer due to nonlinear shear wave interaction with contact interfaces</i>	R19
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MAT 258	Mattia Cenedese*, Joar Axås, George Haller	<i>Data-driven reduced-order nonlinear models from spectral submanifolds</i>	S4
MAT 265	I.V. Andrianov*, J. Awrejcewicz, G.A. Starushenko, S.A. Kvitka	<i>Thermal waves in composite membrane with circular inclusions in hexagonal lattice structures</i>	R27
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