

Assignment to DSTA 2021 sessions (in ID alphabetical order)

ID	Author(s)	Title	Session
ASY 022	Mikhail Garbuz, Liubov Klimina*, Vitaly Samsonov	Wind powered plantigrade machine moving against a flow	S3a
ASY 024	C. Da Silveira Zanin*, A. Ture Savadkoohi, S. Baguet, R. Dufour	Energy exchanges in a nonlinear meta-cell	R31
ASY 066	Klaus Zimmermann, Igor Zeidis, Simon Gast*, Nina Prem, Stefan Odenbach, Kare Gowda	An approach to the modeling and simulation of multi-layered and multi-stimulable material for application in soft robots	R31
ASY 131	Yuri V. Mikhlin*, Yuliia E. Surganova	Nonlinear normal modes and localization of vibrations in the pendulum system under magnetic excitation	R22
ASY 139	Yulia Danik, Mikhail Dmitriev*	Algorithm for suboptimal feedback construction based on Padé approximation for nonlinear control problems	R13
ASY 143	Rustyam Akhmetov	The asymptotic solutions of the boundary value problem of convective diffusion around drops with volumetric nonlinear chemical reaction	R13
ASY 182	Robert Salamon*, Grażyna Sypniewska-Kamińska, Henryk Kamiński	Application of multiple scales method to the problem of plane pendulum motion with extended damping model	R31
ASY 192	J. Kaplunov, D.A. Prikazchikov, L. Prikazchikova*	Rayleigh-type waves in nonlocal elasticity	R34
ASY 228	Alexander Koshelev, Eugene Kugushev, Tatiana Shahova*	Dynamics of a low-inertia ball located between two rotating planes with viscous friction	S3a
ASY 247	D. Paul*, K. R. Jayaprakash	Nonlinear oscillations of an elastica between cylindrical boundaries	R13
ASY 249	Grażyna Sypniewska-Kamińska*, Jan Awrejcewicz	Identification of the model parameters based on the ambiguous branches of resonance response curves	R31
ASY 273	M.K. Abohamer*, J. Awrejcewicz, R. Starosta, T.S. Amer, M.A. Bek	Modelling and analysing of a spring pendulum motion in the presence of energy harvesting devices	R13
ASY 304	Rahul Das*, Anil K. Bajaj, Sayan Gupta	Performance of a nonlinear energy sink coupled with a nonlinear oscillator for energy harvesting applications	S6b
ASY 326	Pavel Udalov *, Ivan Popov, Alexei Lukin	Estimation of the amplitudes of parametric oscillations of a hemispherical solid-wave gyroscope	R35
ASY 343	V.S. Igumnova *, A.V. Lukin, I.A. Popov, L.V. Shtukin	Synchronization of oscillations of weakly coupled elastic elements of a differential resonant MEMS-accelerometer in the mode of a two-circuit self-oscillator	R9
ASY 352	Jan Awrejcewicz, Roman Starosta*, Grażyna Sypniewska-Kamińska	Vibration of the system with nonlinear springs connected in series	R13
ASY 376	Alessandro Fortunati*, Andrea Bacigalupo, Marco Lepidi, Andrea Arena, Walter Lacarbonara	Nonlinear wave propagation in one-dimensional metamaterials via Hamiltonian perturbation scheme	R31
BIF 011	Antonio Zippo*, Francesco Pellicano, Giovanni Iariccio	Experiments of shells with non-newtonian fluid interaction	S4
BIF 034	Sergii Skuratovskiy, Grzegorz Kudra*, Krzysztof Witkowski, Grzegorz Wasilewski, Jan Awrejcewicz	Nonlinear dynamics of forced oscillator subjected to a magnetic interaction	R18
BIF 046	Mauricio A. Ribeiro, Angelo M. Tusset, Wagner B. Lenz, José M. Balthazar*, Grzegorz Litak	On non-ideal and fractional dynamics of a magneto piezoelectric oscillator with Bouc-Wen damping to harvesting energy	S2a
BIF 051	Leandro R. de Oliveira*, José M. Balthazar, Airton Nabarrete, Átila M. Bueno, Angelo M. Tusset, Eduardo A. Petrocino	Some remarks on experimental analysis of a non-ideal conveyor belt	S2a
BIF 065	Minh-Tuan Nguyen-Thai*, Paul Wulff, Nils Gräbner, Utz Von Wagner	On the dynamics of a 2-DOF nonlinear vibratory system with bistable characteristic and circulatory forces	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 Tosyali*, 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
BIF 363	Alexander V. Glushkov*, Andrey V. Tsudik, Oleg V. Dubrovsky, Oleksii L. Mykhailov	<i>Nonlinear dynamics of relativistic backward-wave tube: chaos, bifurcations and strange attractors</i>	R6
BIF 377	Andrey V. Tsudik, Oleg V. Dubrovsky*, Valentin B. Ternovsky, Vasily V. Buyadzhi, Igor I. Bilan	<i>Chaos and bifurcations in a nonlinear dynamics of chain of the backward-wave tubes: numerical analysis</i>	S3a
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

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CON 049	Wojciech Paszkowiak*, Marcin Pelic, Tomasz Bartkowiak	Neural network modelling for steering control of an automated guided logistic train	R11
CON 050	Angelo M. Tusset*, Marcos Gonçalves, Calequela J. T. Manuel, José M. Balthazar, Giane G. Lenzi	Passive vibration control of a high-speed elevator system	S2d
CON 054	Ke Ye, Jinhui Jiang *	Experimental research on active vibration control of elastic plate and damage degradation of actuator	R14
CON 059	Krzysztof Kuliński*, Jacek Przybylski	Nonlinear vibrations of a sandwich piezo-beam system under piezoelectric actuation	R14
CON 061	Paweł Latosiński*, Andrzej Bartoszewicz	Reference model trajectory tracking in continuous-time sliding mode control	R37
CON 098	Mirosław Gidlewski, Leszek Jemioł, Dariusz Żardecki *	Model based investigations of an integrated control system for automatic lane change in critical conditions	R17
CON 105	Mirosław Gidlewski, Leszek Jemioł, Dariusz Żardecki *	Modeling and simulation of the automated lane change process, taking into account freeplay and friction in the vehicle steering system	R17
CON 115	Marat Dosaev	Control algorithm of a vibrating robot with a flywheel and unbalance with limited angular acceleration	S3a
CON 128	Dębowski Andrzej, Faryński Jakub, Żardecki Dariusz*	Reference models of the 4WS vehicle lateral dynamics for the synthesis of steering algorithms	R37
CON 136	Leon Prochowski, Patryk Sz wajkowski*, Mateusz Ziubiński	Can the prognosis of the results of the crash be the basis to steering the autonomic vehicle with the trailer in the critical situation?	R17
CON 141	Elżbieta Jarzębowska*, Krzysztof Augustynek, Andrzej Urbaś	Motion tracking of a rigid-flexible link manipulator in a controller failure condition	S2d
CON 156	David Angulo-García*, Fabiola Angulo	Control of micogrid synchronization based on feedback control and optimization techniques	R17
CON 158	Magdalena Sangeorzan, Eva-H. Dulf*	Fractional order controllers for twin rotor aerodynamical system	S1
CON 159	Ruben Capeans, Gaspar Alfaro, Miguel A. F. Sanjuan*	Partial control and beyond: forcing escapes and controlling chaotic transients with the safety function	R11
CON 160	Cezary Graczykowski*, Rami Faraj	Predictive control of semi-active fluid-based dampers under impact excitation	R17
CON 164	Marcian Mihai*, Isabela Birs, Cristina I. Muresan, Eva Dulf , Robin De Keyser	Comparisons and experimental validation of several autotuning methods for fractional order controllers	S1
CON 191	Marcin Kłak*, Elżbieta Jarzębowska	Guidance and control system design for a free-flying space manipulator based on a dynamically equivalent manipulator	S2d
CON 194	Maria Aline Gonçalves*, José M. Balthazar, Elżbieta Jarzębowska, Angelo M. Tusset, Maurício A. Ribeiro, Hilson H. Daūm	On a nonlinear and non-ideally excited tank	S2d
CON 201	James F. Whidborne*, Elżbieta Jarzębowska, Varul Agarwal, A. Afiz Ishola	Manipulator-aircraft dynamical system dedicated for wind tunnel testing	S2e
CON 203	Igor Ananievski	Damping of vibrations of an elastic beam by means of an active dynamic damper in the presence of disturbances	R14
CON 210	P. Schorr*, M. Ebnet, K. Zimmermann, V. Böhm	Dynamic modeling of a rolling tensegrity structure with spatially curved members	R37
CON 214	Marcin Mirosław*, Jakub Deda, Tomasz Mirosław	The modelling of emergency dynamic braking system of electric vehicle	R37
CON 215	Marcin Mirosław*, Jakub Deda, Tomasz Mirosław	The modelling of autonomous control with hazard of measurement noise and errors	R37
CON 222	Iulia Bunescu, Isabela Birs, Robain De Keyser, Cristina I. Muresan*	A novel toolbox for automatic design of fractional order pi controllers based on automatic system identification from step response data	S1
CON 231	José Agnelo Bezerra, João Francisco Silva Trentin*, Davi Antônio dos Santos	Global sliding mode control for a fully-actuated non-planar hexa-rotor aerial vehicle	S2d
CON 233	João Francisco Silva Trentin*, Davi Antônio dos Santos	Global sliding mode control design for a 3D pendulum	S2c

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CON 237	Roland Zana*, Ambrus Zelei	Experimental evaluation of an underactuated inverse dynamics control approach based on the method of Lagrange-multipliers	R37
CON 239	Ounis Hadj Mohamed*, Abdeddaim Mahdi, Ounis Abdelhafid	Design approach for isolated buildings in adequacy with algerian regulations and their comparison with several international codes	R11
CON 244	I. S. Mamaev*, Yu. L. Karavaev, V. A. Shestakov	Analysis of non-slipping conditions for Omni wheels based on investigations of the dynamics of a highly maneuverable mobile robot	R14
CON 287	Alberto Di Matteo*, Chiara Masnata, Christoph Adam, Antonina Pirrotta	Tuned liquid column damper inerter (TLCDI) for vibration control of fixed-base structures	S6c
CON 305	Miriam Chillemi*, Thomas Furtmüller, Christoph Adam, Antonina Pirrotta	Assessing the effect of different configurations of inerter-based devices for structural vibration control	S6b
CON 306	Alexander Yu. Aleksandrov, Alexey A.Tikhonov*	On the attitude stabilization of artificial Earth satellite in the natural electromagnetic coordinate system	S3a
CON 308	Vinod V.*, Bipin Balaram	Strategies for amplitude control in a ring of self-excited oscillators	R14
CON 313	Breifni Fitzgerald*, Saptarshi Sarkar	Inerter-based dampers for vibration control of floating offshore wind turbines	S6b
CON 329	Alexander Yu. Aleksandrov, Alexey A.Tikhonov *	On the triaxial electrodynamic attitude stabilization of a satellite in the orbital frame via control with distributed delay	S3a
CON 330	Fideliu Paulet-Crainiceanu*, Vitalie Florea, Septimiu George Luca, Cristian Pastia, Octavian Victor Rosca	Analysis of practical application aspects for an active control strategy to civil engineering structures	R14
CON 331	Jorge A. Ricardo Jr.*, Davi A. Santos	Super-twisting sliding mode control for a formation of fully-actuated multirotor aerial vehicles	S2b
CON 335	Jacek Jackiewicz	Energy recovery hybrid system with the flywheel	S2b
CON 345	Moris Kalderon*, Marina Kalogerakou, Andreas Paradeisiotis, Ioannis Antoniadis	Locally resonant metamaterials utilizing dynamic directional amplification	S6a
CON 351	Valery N. Pilipchuk, Krystian Polczyński, Maksymilian Bednarek*, Jan Awrejcewicz	Energy flow control in a system of coupled pendulums using magnetic field	R11
CON 368	Alexander V. Glushkov, Valentin B. Ternovsky*, Oleksii L. Mykhailov, Andrey V. Tsudik	Optimal control of resonance radiation processes in laser isotopes separation systems and devices	R7
CON 379	Juan J. Gude*, Pablo García Bringas	Proposal of a control hardware architecture for implementation of fractional-order controllers	S1
ENG 038	Jaroslav Zapoměl*, Petr Ferfecki, Jan Kozánek	Reducing amplitude of nonlinear vibration of rotors induced by imbalance forces and the disc collisions using magnetically sensitive fluids	S2a
ENG 043	Asghar Faramarzi Babadi*, Yaghoub Tadi Beni, Krzysztof Kamil Żur*	On the flexoelectric effect on nonlinear vibration of three-layered functionally graded cylindrical microshells	S2c
ENG 063	Krzysztof Kęcik*, Andrzej Mitura	Modelling of an Electromechanical Coupling in Magnetic Levitation Energy Harvester	R5
ENG 070	R.H. Avanço*, D. A. Zanella, R. De Jesus A. Cantillo, A. Cunha Jr., J. M.Balthazar, A. M.Tusset	Discussion on the influence of the inductance in the nonlinear dynamics of DC motors in coupled systems	S2c
ENG 078	Krzysztof Kęcik*, Andrzej Mitura	Nonlinear dynamics of a 2DOF magneto-mechanical harvester	R5
ENG 089	Juraj Králik	Probabilistic analysis of npp seismic load considering the local site effects	R5
ENG 093	Ivan Shatskyi*, Vasyl Perepichka	Shock torsion wave in an elastic rod with decreasing function of viscoplastic external friction	S3b
ENG 094	Ivan Shatskyi*, Mykola Makoviichuk, Maksym Vaskovskyi	Transversal straining of pressurized pipeline caused by vibration of damaged foundation	S3b
ENG 100	Engin Kandiran*, Avadis Hacinliyan	Continuous dynamical systems as pseudo random number generator	R3
ENG 107	Marat Dosaev*, Vitaly Samsonov	Sliding of tabouret with elastic legs on a rough surface under the action of a small lateral force	S3b
ENG 111	Krystian Polczyński*, Maksymilian Bednarek, Jan Awrejcewicz	Magnetic oscillator under excitation with controlled initial phase	R8

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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
ENG 153	Volodymyr Semenyuk, Vasyl Martsenyuk*, Valeriy Lingur, Nadiia Kazakova, Nataliia Punchenko, Pawel Fałat, Kornel Warwas	<i>A method to improve the accuracy of bridge cranes overload protection using the signal graph</i>	R8
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 Warmiński, Zofia Szmit	<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

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EXP 295	Jean-Emmanuel Chambe*, Miguel Charlotte, Yves Gourinat	Vibration analysis of a fully- and partially-filled container – application to cryogenic tank characterization and dynamic behavior	R16
EXP 296	Lujie Shi*, Hao Bai, Leila Khalij	Uncertainty evaluation by the bootstrap for the staircase fatigue limit test data	R16
EXP 309	Mirosław Gidlewski, Leon Prochowski, Leszek Jemioł, Mateusz Ziubiński*	The course of the process of a motor car frontal impact against various places of the second vehicle's body side an	R28
EXP 310	Luca Sangiuliano*, Björn Reff, Jacopo Palandri, Friedrich Wolf Monheim, Bert Pluymers, Elke Deckers, Wim Desmet, Claus Claeys	Low frequency tyre noise mitigation in a vehicle using metal 3D printed resonant metamaterials	S6a
EXP 332	Kemal Arslan*, Recep Gunes	Evaluation of stress wave propagation in particle-reinforced metal matrix composites	R26
EXP 338	Mirosław Gidlewski, Tomasz Pusty*, Leszek Jemioł, Hanna Kochanek	Determination of physical quantities describing the movement of objects involved in a frontal-side collision of vehicles	R28
EXP 339	Witold Luty, Tomasz Pusty*	Analysis of dynamic characteristics of vehicle steerability in the context of its diagnostics and evaluation of dynamic properties	R26
EXP 353	Paweł Adamski*, Paweł Olejnik	Drive-by-wire of a converted into electric car Syrena 105 enabling Hardware-In-Loop tests of driving	R26
EXP 360	Daniel Mokrzan*, Tomasz Nowakowski, Grzegorz M. Szymański	The application of time-frequency methods of acoustic signal processing in the diagnostics of tram drive components	R28
LIF 023	Dariusz Grzelczyk, Olga Jarzyna*, Jan Awrejcewicz	Design and simulation of a lower limb exoskeleton with linear electric actuators	R33
LIF 106	Ivan Alpatov*, Marat Dosaev, Vitaly Samsonov, Ekaterina Vorobyeva, Vadim Dubrov	An elastic rib modelling	S3b
LIF 137	Leon Prochowski, Mateusz Ziubiński*, Krzysztof Dziewiecki, Patryk Szwajkowski	Impact energy versus the hazards for the occupants during a front-to-side vehicles' collision	R36
LIF 140	Rahil Valani*, Brendan Harding, Yvonne Stokes	Bifurcations in inertial focusing of particles in curved rectangular ducts	R33
LIF 188	Agata Mrozek*, Tomasz Stręk	Design of auxetic damper for lower limb prosthesis	R33
LIF 204	Liliána Zajcsuk*, Ambrus Zelei	Correlation of biomechanic performace measures with acceleration and deceleration in human overground running	R33
LIF 230	Natalya Kizilova	Nonlinear dynamics, stability and control strategies: mathematical modeling on the big data analyses of COVID-19 in Poland	R36
LIF 262	Björn Birnir	The probability of infection, through aerosol transmission, by SARS-CoV-2 coronavirus	R36
LIF 327	Antonina Pirrotta*, Andrea Evola, Alberto Di Matteo, Antonio Galvano, Antonio Russo	Anti-vibration knob for the motorcycle, customizable on the basis of the driver's ergonomics	S6c
LIF 336	Katica (Stevanović) Hedrih, Andjelka Hedrih*	Nonlinear oscillations of a complex discrete system of rigid rods with mass particles on an elastic cantilever	R20
LIF 347	Piotr Weber*, Piotr Beldowski, Adam Gadomski, Krzysztof Domino, Damian Ledziński	Interaction of mucin with glycosaminoglycans in water environment	R36
LIF 349	Piotr Beldowski*, Piotr Weber, Adam Gadomski, Krzysztof Domino, Rohit Prasad	Interaction of albumin with chondroitin sulphate IV and VI, a molecular docking study	R36
LIF 362	Alexander V. Glushkov*, Olga Y. Khetselius, Sergiy M. Stepanenko, Andrey A. Svinarenko, Anna V. Ignatenko	Chaos in environmental radioactivity dynamics of some geosystems: analyses of the radon time series	R28
LIF 383	Larysa Dzyubak*, Oleksandr Dzyubak, Jan Awrejcewicz	Conditions regulating tumor cell behaviour in biological systems with memory of states	R33

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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
MAT 037	Michelle F. Westin*, Roberto G. A. da Silva, José M. Balthazar	<i>Some comments on nonlinear aeroelastic typical section</i>	S2b
MAT 073	Nicolae Herisanu*, Vasile Marinca	<i>Dynamic response of simply-supported euler-bernoulli beam on non linear elastic foundation under a moving load</i>	R6
MAT 076	Nicolae Herisanu*, Vasile Marinca	<i>Nonlinear vibration of a functionally graded beam on Winkler-Pasternak foundation under a moving force</i>	R6
MAT 086	Renata Modzelewska*, Agata Krasieńska, Anna Wawrzaszek, Agnieszka Gil	<i>Scaling features of cosmic rays, solar, heliospheric and geomagnetic data</i>	R29
MAT 110	Patricia Santana Reyes*, Emmanuel Pagnacco, Rubens Sampaio	<i>Taking into account uncertainties in non-linear dynamical systems with nonlinear energy sinks (NES)</i>	R12
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
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