

ID	Title	First name	Last name	State
9	Multi-agent system as operational center support	Jan	Farlik	Czech Republic
10	Numerical Investigation of the lift-off effect on the cut-off frequency in the Rayleigh wave	Pengxing	Yi	China
12	Benchmarking Methodology for IP Testing in Industrial Networks	Petr	Chlumsky	Czech Republic
19	Active vibration control strategies for a free piston Stirling Engine generator	Ali	Hassan	Northamptonshire
20	Effect of Induction Machine Load and Rotor Eccentricity on Space Harmonics in Air Gap Flux Density	Vladimir	Kindl	Czech Republic
32	Covering the Working Space of Mobile Robot	Jiří	Krejša	Czech Republic
36	A Comprehensive Approach to Calculation of the Air Gap Magnetic Flux Density	Karel	Hruška	Czech Republic
37	A wireless passive tension sensor	min	zhao	Jiangsu
38	IMPLEMENTATION OF SIC INVERTER FOR HIGH FREQUENCY, MEDIUM VOLTAGE APPLICATIONS	Oleg	Sivkov	Czech Republic
39	Application of innovative mechatronic systems in automation and robotics learning	Dmitry	Bazylev	Russia
40	Determination of Critical Temperature of Small Squirrel Cage Motor through FEA	Roman	Pechanek	Czech Republic
41	Electromechanical analysis of textile structures designed for wearable sensors	Veronika	Šafářová	Czech Republic
42	Single-phase active rectifiers in a cascade frequency converter	Tarek	Nahdi	Czech Republic
43	Preliminary investigations of a vibration attenuator based on eddy current principle	George Juraj	Stein	Slovakia
44	The creation of pressure maps using SIF/IFF information	ladisgr@seznam.cz		Czech Republic
45	Comparison of Suitability of Tracking Marks for Optical Measurement of Displacement	Lubos	Kotek	Czech Republic
46	Mathematical Model of Composite Manufacture and Calculation of Robot Trajectory	Jaroslav	Mlynek	Czech Republic
47	Design and Optimization of Synchronous Reluctance Machine	Jan	Barta	Czech Republic
48	A Study on Power Generation from Sea Waves by using Linear Generator	Joon Sung	Park	Gyeonggi-do, Korea
49	Modelling and parameterization of coupled linear motors as part of a development methodology	mreh@hrz.tu-chemnitz.de		Germany
50	Sensitivity analysis of mechatronic system with flexibility control	Martin	Juhás	Slovakia
51	Development of High Power Stack for Offshore Wind Power Generation	Jin-Hong	Kim	Gyeonggi-do, South Korea
53	Assurance of Functional Safety in relation to Ecodesign of Machine Tools	Jiří	Zahálka	Czech Republic
55	Modeling and Simulation of a Thermoelectric Energy Harvesting System for Control Design Purposes	Marco	Nesarajah	Germany
56	Smart Grids Process Framework Assessment Through Process Modeling	Zdenek	Brabec	Czech Republic
57	FE Model of EM Shielding Textile Materials	Dusan	Maga	Czech Republic
58	Comparison of fault tolerant control algorithm using space vector modulation of PMSM drive	Dominik	Łuczak	Poland
60	Using the Ant Colony Optimization Algorithm for the Capacitated Vehicle Routing Problem	petr.stodola@unob.cz		Czech Republic
61	Stereo Vision for Teleoperated Robot - Experiments and Results	Vaclav	Krivanek	Czech Republic
62	Influence analysis on the model comparison performance index for servo drive control	qjo@hrz.tu-chemnitz.de		Germany
63	The use of mechatronics for Water Injection in SI engine	Mario	Farrugia	Malta
64	Integration of force sensing for robotic generic assembly	Mario	Farrugia	Malta
69	Evaluation of Muscular Moment Asymmetry using Bilateral Cyclograms	Patrik	Kutilek	Czech Republic
74	Evaluation of the Adhesion Strength using Digital Microscope and International Standards	Patrik	Kutilek	Czech Republic
75	Proposal of a communication protocol for smart sensory systems	Juraj	Ďudák	Slovakia
76	Calculation of the vibration induction motor using the finite element method	Marcel	Janda	Czech republic
79	Using thresholding technique for object detection in infrared images	Quy Ich	Pham	Czech republic
80	Comparison of methods for back EMF estimation at low speed for PMSM drive	Konrad	Urbanski	Poland
82	Apparatus for induction heating 2,5 kW using a series resonant circuit	Petr	Procházka	Czech Republic
83	Power supply for resistive heating of iron components	Petr	Procházka	Czech Republic
84	The Development of X-ray Fluorescence Spectrometer Based on Energy Dispersion			China
85	Design of visual odometry system for mobile robot	Michal	Růžička	Czech Republic
86	Discrete and Continuous Fractional Controllers	Radoslav	Cipin	Czech Republic
91	pySimEd – universal framework for visual programming	Juraj	Ďudák	Slovakia
93	Electric powered airplane VUT 051 RAY	Petr	Procházka	Czech Republic
94	Communication and energy management systém of small electric airplane	Petr	Procházka	Czech Republic
95	Universal test bench for AC traction motors 600V/500A	Petr	Procházka	Czech Republic
96	Actuator for tattoo machine	Petr	Procházka	Czech Republic
98	Design of distribution boxes for aircraft electrical system	Tomáš	Kerlin	Czech republic
99	The Code and Carrier Tracking loops for GPS Signal	Bac	Vu	Czech Republic
101	System Fault Diagnosis and Fault-Tolerant Control	David	Kvapil	Czech Republic
106	TURBOJET ENGINE INNOVATION AND TRIZ	Bohuslav	Bušov	Czech Republic
107	Prediction method for electrical energy consumption of the machine tool in the usage stage	Jiří	Tůma	Czech Republic
108	Improvement of active hinge of the car bonnet	Bohuslav	Bušov	Czech Republic
109	Model Cooperation in Particle Swarm Optimization	Michal	Dub	Brno
111	Modular System of Converters with Interleaved Structure	Josef	Kadlec	Czech republic
112	Improvement the evaluation of innovation	Bohuslav	Bušov	Czech Republic
115	A method for accelerated ageing of electric machine insulation	tomaz.munih@fe.uni-lj.si		Slovenia
116	Control system of rotary pneumatic motor	Radek	Votrubec	Czech Republic
117	Identification of multi-mass mechanical systems in electrical drives	Dominik	Łuczak	Wielkopolska
119	Speech Recognition via STT API for Autonomous Mobile Robot	Petr	Mašek	Czech Republic
120	Control system of the seat with variable stiffness.	Radek	Votrubec	Czech Republic
124	Decomposition of Steering Angle Measurements Inspired by Pulse Control Model for Lane Keeping	Yu	Zhang	U.K.
127	A Flexible Hierarchical Control Method for Optimal Collision Avoidance	Tim	Gordon	UK

128	Control algorithms in distributed system of three wheeled electric vehicle.	Bartłomiej	Wicher	wielkopolska
130	Analysis of rotor's eccentricity influence on bearing load of induction machine	Jan	Šobra	Czech Republic
133	Multiple observer design for a reentry vehicle state/unknown input estimation	Mihai	Lungu	Romania
137	Educational Machinery with a Brushless Excited Synchronous Machine	Karel	Hruška	Czech Republic
140	MATH MODELLING AND OPTIMIZATION OF THE TACTICAL FORCE DEPLOYMENT	Jan	Mazal	Czech Republic
141	UGV DEVELOPMENT WITH SUPERVISED AUTONOMY (LESSOSN LEARNED)	Jan	Mazal	Czech Republic
144	Algorithms for Vehicle Control Stability System with 4 WS	Martin	Bugár	Slovakia
145	Mechatronic System of Variable Valve Lift Control for Internal Combustion Engine	Martin	Bugár	Slovakia
146	Development of Vibration Energy Harvester Fabricated by Rapid Prototyping Technology	Zdeněk	Hadaš	Czech Republic
147	Analysis of the induction machine substituting circuit	Radim	Belousek	Czech republic
150	General Implementation of the Ant Colony Optimization on .NET Platform	Miloslav	Neubauer	Czech Republic
151	Legacy Power Grid Control System Modernization and Integration with Smart Grid Control Approach via	Anatolijs	Zabašta	Latvia
152	The modeling of impulse noise in the metallic lines	Tomáš	Zeman	Czech Republic
153	Auto tuning of systems with input shaping	Maciej	Gniadek	Poland
154	Analysis of input shaping and PID-controller connection structures for two-mass systems.	Maciej	Gniadek	Poland
155	Heating ability of electrically conductive textile materials	Marek	Neruda	Czech Republic
157	Novel Approach to Thermoelectric Generator Modeling as Energy Harvesting system	Radek	Vlach	Czech Republic
158	Analysis of Transmission Parameters of Metallic Cables Based on External Conditions	Marek	Nevosad	Czech Republic
159	Study of heart rate as the main stress indicator in aircraft pilots	Marek	Regula	Czech Republic
160	Evaluation of relationship between the activity of upper limb and the piloting precision	Vladimír	Socha	Czech Republic
162	Procedure to Measure of the Data Transmission Speed in LTE Mobile Networks	Karel	Dušek	Czech Republic
163	Aging Analysis of Metalized Film Capacitors	Karel	Dušek	Czech Republic
164	Solar and Wireless energy Harvesting semi-active UHF RFID tag Design and Prototyping	Lukas	Kypus	Czech republic
165	Control of Single-Phase AC/DC Converter based on SOGI-PLL voltage synchronization	Vojtech	Blahnik	Czech Republic
166	Complete Development Platform for Multi-Level Converters and Complex Control Algorithms	Tomáš	Košan	Czech republic
167	Robustness Optimization of Heterogeneous Systems in Multi-Objective Scenarios	Anamaria	Oros	Romania
168	Modelling and Simulations of Longitudinal Flight	Miroslav	Jirgl	Czech Republic
169	A .NET application searching for data in a log file of the KUKA industrial welding robot	Igor	Košťál	Slovak Republic
171	Active stabilization of a humanoid robot base on inertial measurement unit data	Marek	Wasik	Poland
172	The impact of deterioration of the absolute position transducer on the electric drive with Permanent	Bartłomiej	Wicher	wielkopolska
177	Study of the response of the shaft loaded by Unbalanced Magnetic Pull	Petr	Lošák	Czech Republic
178	Comparison of three independent control techniques for 3-level Neutral Point Clamped converter	Stepan	Janous	Czech Republic
182	Economic Comparison of Basic Energy Storage System Control Strategies	Luboš	Streit	Czech Republic
183	Electric Drive with Voltage-Fed Inverter with Regard to Influence of Voltage Sags	Martin	Pittermann	Czech Republic
184	Energy Harvesting in a Nonlinear Cantilever Beam System Excited by Harmonic and Random vibrations	Marek	Borowiec	Poland
187	Energy harvesting of an autoparametric pendulum system	Krzysztof	Kecik	Lublin
188	Experimental and numerical solutions for friction stir welding the plates	Roland	Janco	Slovak Republic
190	Model-based Design of Testing Electromagnetic Shaker with Flexible Beam	Zdeněk	Hadaš	Czech Republic
191	Energy Harvesting for Aerospace: Application Possibilities	Ludek	Janak	Czech Republic
192	Introduction to Design of Speed Controller for Fuel Pump	Ondrej	Andrs	CZ
195	Hardware-In-the-Loop Simulation for Automotive Parking Assistant Control Units	Josef	Vejlupek	Czech Republic
196	Trailer Parking Assistant	Josef	Vejlupek	Czech Republic
197	Robot Imitation of Human Arm via Artificial Neural Network	Akif	Durdu	Turkey
199	Simulation of the Vehicle Passing the Gun Stabilization Bump Course of the Aberdeen Proving Ground	Vladimír	Čech	Czech Republic
200	Development of a Human Tracking Indoor Mobile Robot Platform	Suat	Karakaya	turkey
201	Sensor Failure Detection in Autonomous Mobile Robot Application	Stanislav	Vechet	Czech Republic
202	Analysis of high-speed induction machine	Jiří	Klíma	Czech Republic
206	Geometric accuracy of CNC machine tools	Michal	Holub	Czech Republic
207	Low Cost Fixed Wing UAV for Development of Control Laws	David	Kraus	Czech Republic
208	Dipsticks integrated on smart diapers for colorimetric analysis of urinary tract infections	Tao	Dong	Buskerud, Norway
209	DISTANCE MECHATRONIC LABORATORY FOR SMEs UNIVERSITIES and VOCATIONAL HIGH SCHOOLS IN TURKEY	Huseyin Emre	Guner	TURKEY
210	Thermal Simulation of Bionic transpiration heat pipe system for high-power LED	Tao	Dong	Buskerud, Norway
211	Tuning Methods and Educational GUI Design for 1-DoF and 2-DoF PI(D) Controllers	Mehmet Kivanç	Çelik	Izmit
212	Design of a Narrowband Photonic Filter Based on the Leaky Outer Defect Mode	Richard	Zeleny	Czech Republic
213	An Experimental Study on Capacitive Touch Sensor's Response to E. coli Bacteria	Tao	Dong	Buskerud, Norway
214	Feature Extraction of Ball Bearings in Time-Space and Estimation of Fault Size with Method of ANN	Kaplan	Kaplan	Turkey
215	Multibody Model of Heavy Machine Tool	Jakub	Štetina	Czech Republic
216	Features of designing mechatronic units translational motion with forced load mode	Valentin	Morozov	Russian Federation
217	Simulation modelling of water-supply network as mechatronic system	Jiri	Kovar	Czech Republic
218	DC Motor Identification Based on Recurrent Neural Networks	Viliam	Fedák	Slovak Republic
219	Laboratory Model of an Interferometric Frequency Hearing	Michal	Luckí	Czech Republic
220	Assessing the impact of mechatronic systems on the environment	Maria	Iskandrova	Czech Republic

221	Design of PMSM-based Electric Motor Test Stand	Jan	Hrbacek	Czech Republic
222	Design of optimal parameter values of mechatronic system with flexible bodies using a block model	Tomáš	Březina	Czech Republic
223	Building a Scaled Model of Autonomous Convoy Powered by ARM mbed Microcontrollers	Stanislav	Vechet	Czech Republic
226	Recognition of the Objects on the Conveyor Belt Using Graph Matching Algorithms	Vít	Ondroušek	Czech Republic
230	DC Ready Devices – Is Redimensioning of the Rectification Components Necessary?	Pavol	Bauer	Netherlands
231	Communication in nanotechnology	Margarita	Plotnikova	Czech Republic