

DEPARTMENT OF ELECTRICAL ENGINEERING AND MECHATRONICS

<http://kem.feituke.sk>

Tel.: ++421 55 602 2279, Fax: ++421 55 633 0115

Head of Department
prof. Ing. Daniela Perduková, PhD.
E-mail: Daniela.Perdukova@tuke.sk

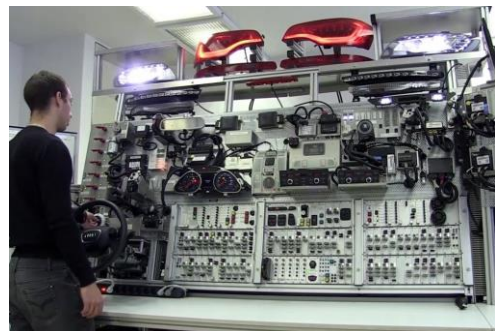
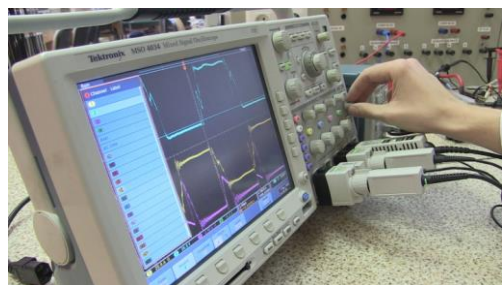


1 DEPARTMENT'S PROFILE

The Department was established at foundation of the Faculty of Electrical Engineering in 1969 as the Department of Electrical Drives but originally it was derived from the Department of Electrical Engineering established at foundation of the Technical University of Kosice (1953). Through the years the name of the department was changed in order to express closer its activities and development.

Staff members of the department are experienced in wide areas of electrical engineering, incl. automotive electrical engineering, mechatronics, and robotics what they utilise in teaching and research. Currently, the department is responsible for education and research in systems of electrical engineering, namely in fields of power and industrial electronics, electrical machines and apparatuses, sensors, electromechanical systems, controlled drives, multi-motor drives, control systems, industrial and automotive mechatronic systems up to drives of robots.

The Department offers all types of university courses: bachelor, master and Ph.D. courses.



2 STAFF

- Professors:** prof. Ing. Jaroslav Dudrik, PhD.
prof. Ing. Pavol Fedor, PhD.
prof. Ing. Daniela Perduková, PhD.
prof. Ing. Pavel Záskalický, PhD.
- Associate Professors:** doc. Ing. František Ďurovský, PhD.
doc. Ing. Viliam Fedák, PhD.
doc. Ing. Želmíra Ferková, PhD.
doc. Ing. Michal Girman, PhD.
doc. Ing. Jaroslava Žilková, PhD.
- Assistant Professors:** Ing. Ján Bačík, PhD.
Ing. Peter Bober, PhD.
Ing. Peter Girovský, PhD.
Ing. Ján Kaňuch, PhD.
Ing. Karol Kyslan, PhD.
Ing. Milan Lacko, PhD.
Ing. Marek Pástor, PhD.
- Senior Scientists:** Ing. Peter Hajsák
Ing. Viktor Šlapák, PhD.
- Technical Staff:** Ing. Gabriela Brečková
Zuzana Olexová
doc. Ing. Michal Kostelný, CSc.
prof. Ing. Jaroslav Timko, CSc.
- Full time Ph.D. Students:** Ing. Milan Biroš
Ing. Martin Lešo
Ing. Ľuboš Suchý
Ing. Peter Talian
Ing. Róbert Űveges
Ing. Róbert Žatkovič

3 LABORATORIES

- Laboratory of Electrical Engineering
- Power Electronics Laboratory
- Laboratory for CAD (COSMOS, ProEngineer, MATLAB, PSpice, and applied SW, ABBRobotStudio)
- Laboratory of Industrial Automation
- Laboratory of Electrical Machines
- Laboratory of Electrical Drives
- Laboratory of Controlled Electrical Drives and Mechatronics
- Laboratory of Automotive Mechatronics
- Laboratory of Pneumatic and Hydraulic Systems
- Virtual Laboratory of Technological Processes Control by Programmable Logic. www.virtual.laboratory.kempi.fe.i.tuke.sk
- Virtual Laboratory of Mechatronic Systems Control: <http://andromeda.fe.i.tuke.sk>

4 TEACHING

4.1. Undergraduate Study (Bc.)

a) Bc. study programme in Automated Electrical Systems

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Fundamentals of Electrical Engineering	1 st	2/2	Kaňuch
Computer Applications	3 th	2/2	Perduková
Electrical Machines	3 rd	2/2	Záskalický
Electrotechnics in Vehicles	3 th	2/2	Ďurovský
Industrial Electronics	3 th	2/2	Záskalický
Electrical Drives	4 th	2/2	Žilková
Microprocessor Technique	3 rd	2/2	Lacko
CAD Programs in Electrical Engineering	4 th	2/2	Fedák
Power Electronics	4 th	3/3	Dudrik
Sensors and Measurement of Nonelectrical Variables	4 th	2/2	Girovský
Industrial Control Systems	4 th	2/2	Fedor
Bachelor Thesis I.	5 th	0/8	Supervisor
Simulation of Production Systems	5 th	2/2	Bober
Controlled Electrical Drives	5 th	2/2	Ďurovský
ManMachine Interface	5 th	2/2	Perduková
Bachelor Project	5 th	0/8	Supervisor
Bachelor Thesis II.	6 th	0/8	Supervisor
Modeling of Electromechanical Systems	6 th	2/2	Fedák
Projecting of Electrical Systems	6 th	2/2	Ferková
Pneumatic and Hydraulic Drives	6 th	2/2	Bober

4.2. Graduate Study (Ing.)

a) Ing. study programme in Electrical Systems

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Power Semiconductor Systems	7 th	2/2	Dudrik
Non-linear Electro-Mechanical Systems	7 th	2/2	Fedor

Servosystems	7 th	2/2	Ďurovský
Dynamic Phenomena of Electrical Machines	7 th	2/2	Záskalický
Electrical Machines for Automation	7 th	2/2	Ferková
Technology of Production in Electronics	7 th	2/2	Slosarčík
Vehicle Mechatronics	8 th	2/2	Ďurovský
Construction and Design of Converters	8 th	2/2	Dudrik
Control of Assembly Lines with Programming Controllers	8 th	2/2	Fedor
Statistical Process Control	8 th	2/2	Bober
Diploma Project	8 th	0/4	Supervisor
Robotics	8 th	2/2	Žilková
Diploma Project II	9 th	0/6	Supervisor
Mechatronic Production Systems	9 th	2/2	Ďurovský
Intelligent Control in EI Systems	9 th	2/2	Žilková
Three-Dimensional Modelling and Simulation	9 th	2/2	Ferková
Signal Processors	9 th	2/3	Lacko
Technology of Production in Electrotechnics	9 th	2/2	Girman
Diploma Thesis	10 th	0/18	Supervisor

4.3. Undergraduate and Graduate Study for Foreign Students (in English)

All subjects listed above are offered in English language for foreign students.

4.4. Ph.D Postgraduate Course on Electrical Systems

Subject	Semester	Lectures/exercises (hours per week)	Lecturer
Power Electronics	1 st	2/0	Dudrik
Ph.D. Project I	1 st	0/2	Supervisor
Foreign Language I	1 st	2/0	Dept. of Foreign Languages
Servosystems	2 nd	2/0	Fedor
Ph.D. Project II	2 nd	0/2	Supervisor
Foreign Language II	2 nd	2/0	Dept. of Foreign Languages
Ph.D. Project III	3 rd	0/4	Supervisor
Subject of Specialization	3 rd	2/0	According to the subject
Scientific Activity	3 rd	0/8	Supervisor
Ph.D. Project IV	4 th	0/2	Supervisor
Scientific Activity	4 th	0/8	Supervisor
Ph.D. Project IV	5 th	0/2	Supervisor
Scientific Activity	5 th	0/8	Supervisor
Ph.D. Thesis	5 th	0/9	Supervisor

5 RESEARCH PROJECTS

- *Research of New Principles and Methods for Design of Electrotechnical Systems.* Project VEGA 1/0464/15 Scientific Grant Agency of the Ministry of Education, science, research and sport of the Slovak Republic and the Slovak Academy of Sciences. Principal investigator: DUDRIK, J. (2015-2018).
- *Electrical Drive with Highfrequency 2-phase Induction Motor.* Project VEGA 2/0192/15. Scientific Grant Agency of the Ministry of Education, science, research and sport of the Slovak Republic and the Slovak Academy of

Sciences. Principal investigator: ZASKALICKÝ, P. (2015-2018)

- *Modular power converter for compact actuators with high precision gears.* Project supported by the Slovak Research and Development Agency under the contract No. APVV-15-0750. Principal investigator: ĎUROVSKÝ, F. (2016-2020).
- *Modular Development System for Control of Power Plant Units based on DCS.* Project supported by the Slovak Research and Development Agency under the contract No. APVV-16-0206. Principal investigator: FEDOR, P. (2017-2020).
- *Smart Drive with Five-Phase Asynchronous Motor.* Project supported by the Slovak Research and Development Agency under the contract No. APVV-16-0270. Principal investigator: : ZASKALICKÝ, P. (2017-2021).
- *Intelligent Mobile Robot.* Grant FEI-2015-20: Principal investigator: BAČÍK, J. (2017).

6 CO-OPERATION

6.1. Co-operation in Slovakia

The Department co-operates with many industrial enterprises in Slovakia having joint projects at modernising of the electrical drive systems, control and mechatronic applications: U.S.STEEL Košice, SIEMENS, ABB, BSH Drives and Pumps Michalovce, BWG Prešov, Křížík Prešov, Schneider Electric Slovakia, Spell Procont Prešov, Spinea Prešov, Vonsch Brezno, Kybernetika Košice, TEKO Košice, ENERGO CONTROL Košice, ZŤS VVU Košice, ŽP Podbrezová, Bukóza Hencovce, Genesis Prešov, Embraco Slovakia Spišská Nová Ves, Kopex Košice, Slovak Union for Quality, Innovation and Design Q-IMPULZ, Košice, SEZ Krompachy, DATAKON Košice, SLOVRES Košice, STATON Turany, CAG Český Brod (ČR).

6.2. International Co-operation

- University of Zagreb, Croatia
- Brno University of Technology, Czech Republic
- Technical University of Liberec, Czech Republic
- VŠB -Technical University of Ostrava, Czech Republic
- West Bohemian University, Pilsen, Czech Republic
- University of Technology and Economy, Budapest, Hungary
- University of Miskolc, Hungary
- Széchenyi István University, Győr, Hungary
- Delft University of Technology, The Netherlands
- Czech Academy of Science, Prague.
- Silesian Polytechnic Institute of Gliwice
- University of Oradea, Romania
- University of Maribor, Slovenia
- University of Zagreb, Croatia
- University of Novi Sad, Serbia

6.2.1. Visits of Staff Members to Foreign Institutions

- BAČÍK, J., BIROŠ, M.: B&R Corporate, 4th European Industrial Ethernet Award 2016/2017, Award ceremony, Eggelsberg, (AT), 20th October 2017
- BAČÍK, J., BIROŠ, M., TALIAN, P.: Ampér 2017, 25th International Trade of Electrotechnics, Electronics, Automation, Communication Lightning and

- Security Technologies, Brno, (CZ), 21-24 March 2017
- BOBER, P., ŠLAPÁK, V.: Hilscher (DE), 24-28 September 2017
- FEDÁK V.: (1) Garching Technologie- und Gründerzentrum GmbH and (2) ITQ GmbH – in framework of the project coordinator meeting - the project NUCLEI, No CE318, Muenchen, Germany, 27-28 June 2017.
- FEDÁK V.: GOLDEN AMPER 2017 – a competition for the most beneficial showpieces of the 25th Int.Trade Fair of Electrotechnics, Electronics, Automation, Communication..., Brno, – evaluation committee member, 20-23 March, 2017.
- FEDÁK, V., KYSLAN, K., ZÁSKALICKÝ, P.: Joint International Conference OPTIM-ACEMP 2017, Brasov, Romania, 25-27 May 2017.
- FEDÁK, V., FERKOVÁ, Ž., KYSLAN, K., SUCHÝ L., ŠLAPÁK, V., ÜVEGES, R., ŽATKOVIČ, R.: 19th International Conference on Electrical Drives and Power Electronics, Dubrovnik 2017, Dubrovnik (HR), 4-6 October 2017.
- FERKOVÁ, Ž.: VUT Brno (CZ), January 2017.
- FERKOVÁ, Ž.: Technical University of Liberec (CZ), April 2017.
- FERKOVÁ, Ž.: University of West Bohemia, Plzeň (CZ), 2017
- Ferková, Ž.: Sympozium SME, Lublin (PL), June 2017
- FERKOVÁ, Ž.: TechSoft Engineering Praha (CZ), December 2017
- FERKOVÁ, Ž.: ČVUT Praha, General meeting of Czechoslovakia section IEEE (CZ), December 2016.
- KAŇUCH, J.: KOMEL 2017, Katowice (PL), May 2017
- KAŇUCH, J.: VŠB-TU Ostrava (CZ), September 2017
- KYSLAN, K: University of Novi Sad, Serbia, 7.October – 8.November 2017 (1 month), ERASMUS Academic Staff Mobility

6.3. Membership in International Organizations, Societies and Committees

- FEDÁK, V; KYSLAN, K: Chairmen of EDPE 2017 conferences, Dubrovnik, Croatia
- FEDÁK, V.: Vicechairman of the PEMC Council (Power Electronics and Motion Control) with the headquarters in Budapest.
- FEDAK, V.: Vicechairman of the 19th International Conference on Electrical Drives and Power Electronics, Dubrovnik 2017, Dubrovnik, 4-6 October 2017.
- FEDÁK, V.: Vicechairman of the PEMC Council (Power Electronics and Motion Control) with the headquarters in Budapest.
- DUDRIK, J; FERKOVÁ, Ž, KYSLAN: IEEE members.
- PERDUKOVÁ, D.: member of Programme Committee: 12th International Conference on Soft Computing Models in Industrial and Environmental Applications – SOCO 2017, Leon, Spain, 6-8 September, 2017.
- PERDUKOVÁ, D.: member of International Scientific Committee: the 9th International Scientific Symposium on Electrical Power Engineering, Stará Lesná, Slovakia, 12-14 September, 2017

6.4. Membership in Slovak Professional Bodies

- FEDÁK, V.; KAŇUCH, J.; TIMKO, J.; ZÁSKALICKÝ, P.; FEDOR, P.; FERKOVÁ, Ž.; GIROVSKÝ, P.; HAJŠÁK, P.; LACKO, M.; PERDUKOVÁ, D.: members of The SES (Slovak Electrotechnical Society), Branch at FEI TU Košice.
- FERKOVÁ, Ž.: member of Technical Standards Commission on Electrical

Machines in SR.

- PERDUKOVÁ, D.: member of Accreditation Commission working group for research in Electrical and Power Engineering.
- PERDUKOVÁ, D.: Council of the Secondary Technical School for EE, Košice (delegate of the FEI TU Košice).
- KOVÁČOVÁ, I., (chairman), DUDRIK, J., GIRMAN, M., PERDUKOVÁ, D., ZÁSKALICKÝ, P.: members of board for the PhD. Study in Electrical Systems at FEI TU Košice.

6.5. National Educational Projects

- *New Technologies in Education of Mechatronics*. Grant of Tatra Banka Foundation, Principal investigator: KYSLAN, K. (2017)

6.6. Editorial Boards

- BOBER, P. Editorial board of journal "Quality, Innovation, Prosperity" (Kvalita, Inovácia, Prosperita), ISSN 1335-1745 (print), ISSN 1338-984X (online).
- DUDRIK, J. – Member of the Series Editorial Board of Annals of the Academy of Romanian Scientists.
- DUDRIK, J.: Editorial board of Transactions on Electrical Engineering, Czech Republic, ISSN 1805-3386.
- DUDRIK, J.: International Editorial Board of Power Electronics and Drives, Wroclaw, Poland, ISSN: 2451-0262, eISSN: 2543-4292.
- FEDÁK, V.: Editorial board of the Journal "Przegląd Elektrotechniczny" (Polish Academy of Sciences, Warszaw), ISSN 0033-2097, e-ISSN 2449-9544.
- FEDOR, P: Editorial board of Acta Electrotechnica et Informatica – AEI. Journal of the Faculty of Electrical Engineering and Informatics. ISSN 1335-8243.
- KYSLAN, K; Associate Editor of journal „Power Electronics and Drives“, Wroclaw, Poland, ISSN 2543-4292
- PERDUKOVÁ, D.: Editorial board of Elektroenergetika journal, ISSN 1337-6756.
- PERDUKOVÁ, D.; FEDÁK, V.; DUDRIK, J.; ĎUROVSKÝ, F.; FEDOR, P.; GIROVSKÝ, P.; LACKO, M.; KYSLAN, K.; PÁSTOR, M.: Editorial board of Elektrotechnické listy, ISSN 2453-8981
- ZÁSKALICKÝ, P.: Editorial board of Acta Technica CSAV. Journal of Czech Academy of Science, Prague. Czech Republic. ISSN 0001-7043.
- ZÁSKALICKÝ, P.: Editorial board of KOMEL, Branzowy osrodek badawczo-rozwojowy Maszyn elektrycznych, Katowice, Poland. ISSN 0239-3646.

7. THESES Defened Ph.D. Theses in 2017

- MAGURA, D.: *Dynamic Control of Strip Tensions in in a Contrinuous Strip-Processing Line*. Supervisor: Fedák, V.

Thesis type	Bachelor	Master	Doctoral
Number	20	17	1

8 OTHER ACTIVITIES

8.1. Symposia, Workshops, Conferences

8.2. Projects for Industry

- *Calculation of magnetic field of ARC cathode.* For STATON , s.r.o. Turany. Co-ordinator: Ferková, Ž.
- *Electromagnetic design of rotors for 3-phase reluctance motors.* For CAG Electric Machinery, Český Brod. Co-ordinator: Ferková, Ž.
- *Electromagnetic design of rotor geometry for 3-phase synchronous reluctance motors.* For CAG Electric Machinery, Český Brod. Co-ordinator: Ferková, Ž.
- *Training on Sinamics S120 power converters.* For Siemens Slovakia. Co-ordinator: Lacko, M.
- *Robot analysys.* For Spinea Technologies, Prešov. Co-Ordinator: Kyslan, K.
- *Interface for reading the status of the Body control unit via an OBD connector. Test stand for Thorep control units.* For ROŠERO-P, s.r.o. Spišská Nová Ves. Co-ordinator: Bober, P.

8.3. Student Competitions and Rewards

- BAČÍK Ján, BIROŠ, M.: The European Industrial Ethernet Powerlink Award 2017, 2nd place, Eggelsberg (Austria), 20 October 2017
- BAČÍK Ján, BIROŠ, M., TALIAN, P.: ProEduco Awards 2017: (29 November 2017) 11th International Trade Fair on Education, Košice
- ŽATKOVIČ Róbert: SCYR 2017 (16 May 2017) – Award of SES branch company for the EEE section “3rd year PhD students”.
- ŽATKOVIČ Róbert: TUKE Research Days Award, 1st place, 6 November 2017, Košice

8.4. Compositions for Dissertation Examinations

- SUCHÝ, L.: *Optimization of Switch Reluctance Motor Drive and Possibilities of Torque Ripple reduction.* Supervisor: Ferková, Ž.
- ÜVEGES, R.: *Control of Robotic Platform in an Unknown Environment.* Supervisor: Ďurovský, F.

9 PUBLICATIONS

9.1. Books

- [1] FEDOR Pavol., PERDUKOVÁ Daniela.: *Use of fuzzy logic for design and control of nonlinear MIMO systems.* The book: Modern Fuzzy control systems and Its Applications. IN TECH, 2017, p. 377-397. ISBN 978-953-51-3390-2. DOI: 10.5772/65834

9.2. Textbooks

- [1] FEDOR, Pavol - PERDUKOVÁ, Daniela: **Riadiace systémy s programovateľnými automatmi.** 1.vyd. Košice: TU. 2017. 215 s. ISBN 978-80-553-2812-6.
- [2] KALAVSKÝ, Michal - FERKOVÁ, Želmíra - GIRMAN, Michal: **Riadenie pohybu mobilných zariadení.** 1. vyd. Košice : TU . 123 s. ISBN 978-80-553-1461-7.
- [3] ZÁSKALICKÝ, Pavel - KAŇUCH, Ján: **Zbierka riešených príkladov z elektrických strojov.** 1. Transformátory. 1.vyd. Košice: Technická univerzita.

9.3. Scientific Journals

Journals indexed in Thomson Reuters "Current Contents" database

- [1] DUDRIK, Jaroslav - PÁSTOR, Marek - LACKO, Milan - ŽATKOVIČ, Róbert: **High-Frequency Soft-Switching PWM DC-DC Converter with Active Output Rectifier Operating as a Current Source for Arc Welding Applications.** In: Electric Power Components and Systems. Vol. 45, no. 6 (2017), p. 681-691. - ISSN 1532-5008. Spôsob prístupu: <http://www.tandfonline.com/doi/full/10.1080/15325008.2017.1291770>.
- [2] BALARA, Dušan - TIMKO, Jaroslav - ŽILKOVÁ, Jaroslava - LEŠO, Martin: **Neural networks application for mechanical parameters identification of asynchronous motor.** In: Neural Network World. Vol. 27, no. 3 (2017), p. 259-270. - ISSN 1210-0552.
- [3] BAČÍK, Ján ml. - ĎUROVSKÝ, František - FEDOR, Pavol - PERDUKOVÁ, Daniela: **Autonomous flying with quadcopter using fuzzy control and ArUco markers.** In: Intelligent Service Robotics. Vol. 10, no. 3 (2017), p. 185-194. - ISSN 1861-2776.
- [4] PERDUKOVÁ, Daniela - FEDOR, Pavol - BAČÍK, Ján ml. - HERČKO, Jozef - ROFÁR, Ján: **Multi-motor drive optimal control using a fuzzy model based approach.** In: Journal on Ambient Intelligence and Smart Environments. Vol. 9, no. 3 (2017), p. 329-344. - ISSN 1876-1364.
- [5] OZSOY, Emre - SANJEEVIKUMAR, Padmanaban - MIHET-POPA, Lucian - FEDÁK, Viliam - AHMAD, Fiaz - AKHTAR, Rasool - SABANOVIC, Asif: **Control strategy for a grid-connected inverter under unbalanced network conditions—a disturbance observer-based decoupled current approach.** In: Energies. Vol. 10, no. 7 (2017), p. 1 až 17. - ISSN 1996-1073: Spôsob prístupu: https://apps.webofknowledge.com/full_record.do?product=CCC&search_mod_e=GeneralSearch&qid=1&SID=V1EeVMCoG6LFayxizkK&page=1&doc=1.
- [6] ZÁSKALICKÝ, Pavel: **Mathematical model of a five-phase voltage-source PWM-controlled inverter.** In: Electrical Engineering. Vol. 99, no. 4 (2017), p. 1179-1184. - ISSN 0948-7921.
- [7] KYSLAN, Karol - RODIČ, Miran - SUCHÝ, Ľuboš - FERKOVÁ, Želmíra - ĎUROVSKÝ, František: **Industrial controller-based dynamometer with dynamic emulation of mechanical loads.** In: Electrical Engineering. Vol. 99, no. 4 (2017), p. 1245-1254. - ISSN 0948-7921 Spôsob prístupu: <https://link.springer.com/article/10.1007/s00202-017-0626-z>.

Foreign Journals

- [1] BOBER, P: **On-line optimalizácia komutačných uhlov prúdu vo fázach BLDC motora.** In: Elektro. Roč. 27, č. 11 (2017), s. 11-13. ISSN 1210-0889
- [2] KAŇUCH, Ján: **Direct drive of electric wheelchair with double disk BLDC motor.** In: Maszyny elektryczne - Zeszyty problemowe. Vol. 114, no. 2 (2017), p. 77-83. ISSN 0239-3646.
- [3] ZÁSKALICKÝ, Pavel: **Electromagnetic torque calculation of idnudction motor working under one phase failure.** In: Maszyny Elektryczne - Zeszyty Problemowe. Vol. 113, no. 1 (2017), p. 161-165. ISSN 0239-3646.
- [4] DOBRUCKÝ, Branislav - ZÁSKALICKÝ, Pavel - PAVLÁSEK, Pavel: **Control of hybrid and electrical vehicle with five-phase AC motor.** In: Autobusy: Technika, Eksploatacja, Systemy Transportowe. No. 6 (2017), p. 1191-1195.

ISSN 1509-5878.

- [5] ZÁSKALICKÝ, Pavel: **Torque ripple calculation of two-phase IM supplied by three-leg VSI inverter** / Pavel Záskalický. In: Maszyny elektryczne: Zeszyty problemowe. Vol. 115, no. 3 (2017), p. 13-17. - ISSN 0239-3646

Foreign Journals indexed in Web of Science or Scopus databases

- [1] BIROŠ, Milan - KYSLAN, Karol - ĎUROVSKÝ, František: **Optimization of hybrid vehicle drivetrain with genetic algorithm using matlab and advisor**. In: Journal Of Engineering Science and Technology Review. Vol. 10, no. 3 (2017), p. 35-40. - ISSN 1791-2377.
- [2] BOROVSKEÝ, Tomáš - KYSLAN, Karol - ĎUROVSKÝ, František: **Material tracking with dynamic torque adaptation for tension control in wire rod mill**. In: Advances in Electrical and Electronic Engineering. Vol. 15, no. 2 (2017), p. 176-183. - ISSN 1336-1376. Spôsob prístupu: <http://advances.etc.sk/index.php/AEEE/article/viewFile/2139/1227>.
- [3] KAŇUCH, Ján - GIROVSKÝ, Peter: **Motor for direct drive of electric wheelchair**. In: International Journal of Engineering Research in Africa. Vol. 31 (2017), p. 94-103. - ISSN 1663-3571.
- [4] FERKOVÁ, Želmíra - KINDL, Vladimír: **Influence of skewed squirrel cage rotor with intermediate ring on magnetic field of air gap in induction machine**. In: Elektronika ir Elektrotechnika. Vol. 23, no. 1 (2017), p. 26-30. - ISSN 1392-1215. Spôsob prístupu: <http://eejournal.ktu.lt/index.php/elt/article/view/17580>.

National Journals indexed in Web of Science or Scopus databases

National Journals

- [1] BAČIK, Ján ml.: **Grafické rozhranie pre ovládanie helikoptéry T-Rex 600**. In: Elektrotechnické listy. Roč. 2, č. 1 (2017), s. 1-3. ISSN 2453-8981. Spôsob prístupu: http://elektrotechnickelisty.eu/casopis/rocnik_II/clanky/EL_01_2017.pdf.
- [2] KAŇUCH, Ján: **Vplyv vyšších harmonických na prúd cez nulový pracovný vodič**. In: Elektrotechnické listy. Roč. 2, č. 1 (2017), s. 1-6. ISSN 2453-8981. Spôsob prístupu: http://www.elektrotechnickelisty.eu/casopis/rocnik_II/clanky/EL_03_2017.pdf.
- [3] GIROVSKÝ, Peter - SIVÝ, Radovan: **Master-Slave riadenie robotických ramien**. In: Elektrotechnické listy. Roč. 2, č. 1 (2017), s. 1-4. ISSN 2453-8981. Spôsob prístupu: http://www.elektrotechnickelisty.eu/casopis/rocnik_II/clanky/EL_02_2017.pdf.
- [4] DUDRIK, Jaroslav: **ZVZCS PWM DC-DC menič s rekuperačnou odľahčovacou sieťou**. In: Elektrotechnické listy. Roč. 2, č. 1 (2017), s. 1-5. ISSN 2453-8981: Spôsob prístupu: http://www.elektrotechnickelisty.eu/casopis/rocnik_II/clanky/EL_04_2017.pdf.
- [5] LACKO, Milan - BIROŠ, Milan: **Inteligentné riadenie vonkajších žalúzií v rodinnom dome pomocou mikrokontrolérov**. Elektrotechnické listy. Roč. 2, č. 1 (2017), s. 1-4. ISSN 2453-8981. Spôsob prístupu: http://elektrotechnickelisty.eu/casopis/rocnik_II/cislo_1_2017.html.
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9.4. Other publications (papers in conference proceedings, etc.)

Publication Type	Confereces		Other
	Foreign	Home	
Number	10	18	0