

The permanent task of the Faculty is to increase the publication activity in quality journals which are indexed in international professional databases.

Publication activities at the FEE (based on registration at the University Library up to February/March of the relevant year):

Year	Monographs and university textbooks	Scientific works in journals	Scientific publications in Conference pub.	Patents, Utility Models	Others (Scripts, etc.)
2008	8	126 (8*)	196	0	69
2009	4	89 (11*)	231	1	29
2010	4	76(12*)	246	3	49
2011	4	86 (13*)	219	2	70
2012	4	76 (12*)	223	8	65
2013	12	107 (18*, 36**)	198	1	94
2014	5	89 (24*, 23**)	257	7	28
2015	10	84 (16*, 45**)	209	3	25
2016	4	61 (24*, 27**)	243	12	36
2017	6	98 (52*, 24**)	175	8	52

* out of which indexed in Current Contents Connect database

** out of which indexed in SCOPUS or Thomson Scientific Master Journal

In the following table we present in detail the publishing activities of the Faculty in 2017 (based on registration at the University Library up to January 30, 2018).

Category	Category name	Number
AAA	Scientific monographs published in foreign publishers	1
AAB	Scientific monographs published in domestic publishers	1
ACB	University textbooks published in domestic publishers	4
ADC	Scientific papers in foreign journals	52
ADE	Scientific papers in other foreign journals	14
ADF	Scientific papers in other domestic journals	8
ADM	Scientific papers in foreign journals registered in the Web of Science or SCOPUS databases	17
ADN	Scientific papers in domestic journals registered in the Web of Science or SCOPUS databases	7
AEC	Scientific papers in foreign reviewed scientific proceedings, monographs	2
AED	Scientific work in domestic reviewed scientific proceedings, monographs	5
AGJ	Applications of patents, utility models, ...	8
AFB	Published invited papers at domestic scientific conferences	3
AFC	Published papers at foreign scientific conferences	72
AFD	Published papers at domestic scientific conferences	79
AFG	Abstracts of contributions from foreign conferences	9
AFH	Abstracts of papers from domestic conferences	5
BAB	Professional book works published in domestic publishers	1
BCI	Scripts and textbooks	4
BDE	Professional papers in non-currented foreign journals	2
BDF	Professional papers in non-currented domestic journals	5
BEE	Professional works in unrecognized foreign proceedings (conference and non-conference)	5

BEF	Professional work in unrecognized domestic proceedings (both conference and non-conference)	4
FAI	Editorial and compilation work	3
DAI	Dissertation and habilitation works	27
GII	Various publications and documents that cannot be classified in any of the previous categories	2

Monographs (Chapters in monographs)

- [1] DOBRUCKÝ, Branislav - LAŠKODY, Tomáš - KOŇARIK, Roman: Two-Phase Inverters with Minimum Switching Devices. In: Recent Developments on Power Inverters, INTECH, 2017, ISBN 978-953-51-3232-5, 28 pp.
- [2] HOCK, Ondrej - ŠEDO, Jozef: Forward and Inverse Kinematics Using Pseudoinverse and Transposition Method for Robotic Arm DOBOT. In: Kinematics, INTECH, 2017, ISBN 978-953-51-3688-0, ISBNp 978-953-51-3687-3, p. 75-94.
- [3] SCHWARTZ, Ladislav - ČEPČIANSKY, Gustáv - RADOŠ, Ivan: Structural reliability of communication networks: scientific monograph - Saarbrücken: LAP LAMBERT Academic Publishing, 2016, ISBN 978-3-659-88815-1, 232 pp.
- [4] FRANEKOVÁ, Mária – RÁSTOČNÝ, Karol: Kryptografia v bezpečnostne relevantných systémoch, Žilina: EDIS, 2017, ISBN 978-80-554-1310-5, 203 s.

Books, Textbooks and Lecture Notes

- [1] HRABOVCOVÁ, Valéria - RAFAJDUS, Pavol - MAKYŠ, Pavol: Analýza elektrických strojov, EDIS – vydavateľstvo Žilinskej univerzity, 2017, ISBN 978-80-554-1323-5, 225 s.
- [2] KANÁLIKOVÁ, Alžbeta – BANDURIČ, Igor: Modelovanie pomocou nástroja Enterprise Architect, EKONÓM, 2017, ISBN 978-80-225-4340-8, 134 s.
- [3] GREGOR, Michal – NEMEC, Dušan – HRUBOŠ, Marián – SPALEK, Juraj: Umelá inteligencia 2, CEIT a.s., 2017, ISBN 978-80-89865-03-1, 302 s.
- [4] GREGOR, Michal – HRUBOŠ, Marián – NEMEC, Dušan: Umelá inteligencia I: Návody na vybrané cvičenia, CEIT a.s., 2017, ISBN 978-80-89865-02-4, 153 pp.
- [5] HRBČEK, Jozef – ŠIMÁK, Vojtech – HRUBOŠ, Marián: Riadenie motorov použitím systému B&R, Žilina: EDIS, 2017, ISBN 978-80-554-1327-3, 166 s.
- [6] HOTTMAR, Vladimír: Ako to vidím ja. Odborná knižná publikácia, ISBN 978-80-554-1324-2, EDIS vydavateľské centrum UNIZA
- [7] FAKTOROVÁ, Dagmar: Pasívne mikrovlnné prvky, EDIS - Žilinská univerzita, 2017, ISBN 978-80-554-1390-7, 104 s.
- [8] HOCKICKO, Peter – NĚMEC, Miroslav: Problémové fyzikálne úlohy pre videoanalýzu reálnych dejov [elektronický zdroj] - 1. vyd. - Žilina: Žilinská univerzita, 2017. - CD-ROM, ISBN 978-80-554-1404-1, 155 s.

Current Content Journals

- [1] HRABOVCOVÁ, Valéria - RAFAJDUS, Pavol - MAKYŠ, Pavol - ŠEBEST, Martin: Improved barriers rotor of the reluctance synchronous motor, In: Electrical engineering, Vol. 99, No. 4, 2017, ISSN 0948-7921, p. 1325-1335.
- [2] PENIAK, Adrián - MAKAROVICH, Juraj - RAFAJDUS, Pavol - VAVRÚŠ, Vladimír - MAKYŠ, Pavol - BUHR, K. - FAJTL, R.: Design and optimization of switched reluctance motor for electrical vehicles, In: Electrical engineering, Vol. 99, No. 4, 2017, ISSN 0948-7921, p. 1393-1401.
- [3] REPÁK, Michal - OTČENÁŠOVÁ, Alena - ALTUS, Juraj - REGULÁ, Michal: Grid-tie power converter for model of photovoltaic power plant, In: Electrical engineering, Vol. 99, No. 4, 2017, ISSN 0948-7921, p. 1377-1391.
- [4] KAPRÁL, Dávid - BRACINÍK, Peter - ROCH, Marek - HÖGER, Marek: Optimization of distribution network

- operation based on data from smart metering systems, In: Electrical engineering, Vol. 99, No. 4, 2017, ISSN 0948-7921, p. 1417-1428.
- [5] BRACINIK, Peter - LATKOVA, Martina - ALTUS, Juraj: Retrofit of distributed generation vs. frequency control in smart grids at overfrequency, In: Electrical engineering, Vol. 99, No. 4, 2017, ISSN 0948-7921, p. 1403-1415.
- [6] BUTKO, Peter - VITTEK, Ján - FEDOR, Tomáš - VAVRÚŠ, Vladimír - MLYNAR, Zbynek: Energy saving control strategy of servo drives with asynchronous motor, In: Electrical engineering, Vol. 99, No. 4, 2017, ISSN 0948-7921, p. 1263-1274.
- [7] DÚBRAVKA, Peter - RAFAJDUS, Pavol - MAKYŠ, Pavol - SZABÓ, Loránd: Control of switched reluctance motor by current profiling under normal and open phase operating condition, In: IET electric power applications, Vol. 11, iss. 4, 2017, ISSN 1751-8660, p. 548-556.
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- [9] OTČENÁŠOVÁ, Alena - BODNÁR, Roman - REGULÁ, Michal - HÖGER, Marek - REPÁK, Michal: Methodology for determination of the number of equipment malfunctions due to voltage sags, In: Energies, Vol. 10, iss. 3, 2017
- [10] SCHOLTZ, Ľubomír – LADÁNYI, Libor – MÜLLEROVÁ, Jarmila: Numerically analyzed spectral and temporal management of all-optical switching based on chalcogenide bistable fiber Bragg gratings, In: Optical and Quantum Electronics, Vol. 49:48, No. 2, 2017, ISSN 0306-8919, p. 1-14.
- [11] LADÁNYI, Libor – SCHOLTZ, Ľubomír – MÜLLEROVÁ, Jarmila: Numerical simulations of dispersion effects in chirped Gaussian and soliton pulses, In: Optical and Quantum Electronics, Vol. 49:105, No. 3, 2017, ISSN 0306-8919, p. 1-13.
- [12] JUREČKA, Stanislav - MATSUMOTO, Taketoshi - IMAMURA, Kentaro - KOBAYASHI, Hikaru: Multifractal analysis and optical properties of nanostructured silicon layers, In: Applied Surface Science, Vol. 395, 2017, ISSN 0169-4332, p. 150-156.
- [13] JANOUSĚK, Ladislav – REBICAN, Mihai – SMETANA, Milan – DUCA, Anton: Diagnosis of real cracks from eddy current testing signals using parallel computation, In: Nondestructive Testing and Evaluation, Vol. 32, No. 4, 2017, ISSN 1058-9759, p. 435-443.
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- [15] BIZOVSKA, Lucia – JANURA, Miroslav – SVOBODA, Zdeněk – ČERNÝ, Martin – KROHOVÁ, Jana – ŠMONDRK, Maroš: Intra- and inter-session reliability of traditional and entropy-based variables describing stance on a wobble board. In: Medical engineering and physics: Vol. 50 (2017), ISSN 1350-4533, s. 29-34.
- [16] NEMEC, Dušan – JANOTA, Aleš – GREGOR, Michal – HRUBOŠ, Marián – PIRNÍK, Rastislav: Control of the mobile robot by hand movement measured by inertial sensors, In: Electrical engineering, Vol. 99, No. 4, 2017, ISSN 0948-7921, p. 1161-1168.
- [17] HRBČEK, Jozef – BOŽEK, Pavol – SVETLÍK, Jozef – ŠIMÁK, Vojtech – HRUBOŠ, Marián – NEMEC, Dušan – Janota Aleš – BUBENÍKOVÁ, Emília: Control system for the haptic paddle used in mobile robotics, In: International journal of advanced robotic systems, Vol. 14, iss. 5, 2017, ISSN 1729-8814, pp.11.
- [18] NEMEC, Dušan – JANOTA, Aleš – HRUBOŠ, Marián – GREGOR, Michal – PIRNÍK Rastislav: Mutual acoustic identification in the swarm of e-puck robots, In: International journal of advanced robotic systems, Vol. 14, Issue 3, 2017, ISSN 1729-8814, pp. 10.
- [19] RÁSTOČNÝ, Karol – ŽDÁNSKY, Juraj – BALÁK, Jozef – HOLEČKO, Peter: Diagnostics of an output interface of a safety-related system with safety PLC, In: Journal ELECTRICAL ENGINEERING, Vol. 99, Issue 4, 2017, ISSN 0948-7921, eISSN 1432-0487, p. 1169-1178.
- [20] MACHAJ, Juraj – BRIDA, Peter: Impact of optimization algorithms on hybrid indoor positioning based on GSM and Wi-Fi signals, In: Concurrency and computation - practice and experience, Vol. 29, No. 23, 2017, ISSN 1532-0634, p. 1-16.
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- [22] BENEDIKOVIČ, Daniel - Alonso-Ramos Carlos – Cheben, Pavel – Schmid, Jens H. – Wang, Shurui – Halir, Robert - Ortega-Moñux Alejandro - Xu Dan-Xia - Vivien Laurent - Lapointe Jean - Janz Siegfried - Dado Milan: Single-etch subwavelength engineered fiber-chip grating couplers for 1.3 μm datacom

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Patents, Utility Models, Designs, Trade Marks

Submitted in 2017:

- [1] Category: patent
Application number: PP 43-2017
Date of publication of the application: 15th May 2017
Authors: Vladimír Hottmar, Bohumil Adamec
Title: Network segment for optimal setting of QoS tools in converged packet networks
Granted by the office: industrial property office of the Slovak republic
- [2] Category: patent
Application number: PP 36-2017
Date of publication of the application: 20th February 2017
Authors: Vladimír Hottmar, Bohumil Adamec
Title: Connection of adaptive demodulator for signals with amplitude modulation
Granted by the office: industrial property office of the Slovak republic
- [3] Category: patent
Application number: PP 98-2017
Date of publication of the application: 29th September 2017
Available to the public: 29th September 2017
Authors: Michal Gála, Branko Babušiak, Ladislav Janoušek, Štefan Borik, Róbert Hudec, Martin Paralič, Slavomír Matúška, Ľudmila Balogová, Jozef Šesták, Kamila Huljaková
Title: Intelligent clothing for monitoring of human bio data, mainly electrocardiogram signals
Granted by the office: industrial property office of the Slovak republic
- [4] Category: utility model
Application number: PUV 208-2017
Date of publication of the application: 29th September 2017
Available to the public: 29th September 2017
Authors: Michal Gála, Branko Babušiak, Ladislav Janoušek, Štefan Borik, Róbert Hudec, Martin Paralič, Slavomír Matúška, Ľudmila Balogová, Jozef Šesták, Kamila Huljaková
Title: Intelligent clothing for biosignals monitoring, in particular an electrocardiogram signal
Granted by the office: Industrial Property Office of the Slovak Republic
- [5] Category: Industrial design
Application number: 65-2017
Date of publication of the application: 05.02.2018
Authors: Michal Praženica, Branislav Dobrucký, Slavomír Kaščák, Peter Drgoňa
Title: Two-stage power semiconductor system with multi-resonant and matrix converter
- [6] Category: Industrial design
Application number: 66-2017
Authors: Michal Praženica, Branislav Dobrucký, Slavomír Kaščák, Peter Drgoňa
Title: Two-stage converter with a half bridge matrix converter and low-frequency output
- [7] Category: Industrial design
Application number: 72-2017
Authors: Michal Praženica, Branislav Dobrucký, Slavomír Kaščák, Peter Drgoňa
Title: Single-phase bridge pulse cycloconverter with a reduced number of semiconductor elements
- [8] Category: Industrial design
Application number: 155-2017
Authors: Michal Praženica, Michal Prídala, Michal Frivaldský
Title: Double LCCT converter with VF TR and DC output
- [9] Category: Industrial design
Application number: 156-2017
Authors: Michal Praženica, Slavomír Kaščák, Branislav Dobrucký
Title: Dual multi-resonant converter with symmetrical output

- [10] Category: Industrial design
Application number: 157-2017
Authors: Michal Praženica, Slavomír Kaščák, Michal Frivaldský, Jozef Šedo
Title: Dual serial-parallel resonant (LLC) converter utilising full voltage of a source
- [11] Category: Industrial design
Application number: 158-2017
Authors: Michal Praženica, Slavomír Kaščák, Michal Frivaldský, Jozef Šedo
Title: Series-parallel resonant (LLC) converter with dual resonance capacitor
- [12] Category: Industrial design
Application number: 186-2017
Authors: Michal Praženica, Michal Frivaldský, Miroslav Pavelek, Branislav Hanko
Title: Interlaced step-up converter with a high gain, bound inductance and magnetic flux reset
- [13] Category: Industrial design
Application number: 180-2017
Authors: Michal Praženica, Branislav Dobrucký, Slavomír Kaščák, Roman Koňarik
Title: Connection of a two-phase electric motor supplied by constant frequency from single-stranded matrix converter from industrial networks
- [14] Category: Industrial design
Application number: 188-2017
Authors: Michal Praženica, Branislav Dobrucký, Slavomír Kaščák, Roman Koňarik,
Title: Connection of a two-phase electric motor supplied by variable frequency from single-stranded matrix converter from industrial networks
- [15] Category: Industrial design
Application number: 187-2017
Authors: Michal Praženica, Branislav Dobrucký, Slavomír Kaščák, Roman Koňarik
Title: Connection of a two-phase electric motor supplied from single-stranded matrix converter with switched capacitor from industrial networks
- [16] Category: Industrial design
Application number: 159-2017
Authors: Marek Píri, Michal Frivaldský, Peter Drgoňa
Title: Device for testing the topologies of power semiconductor converters