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AAA Vedecké monografie vydané v zahraničných vydavateľstvách

- AAA01 JUHÁS, Martin - JUHÁSOVÁ, Bohuslava. *Quality control analysis of mechatronic systems with flexible coupling elements*. 1st ed. Köthen, Germany Hochschule Anhalt 2015. 153 p. Scientific Monographs. ISBN 978-3-86011-086-7.
- AAA02 MIŠŮTOVÁ, Mária - MIŠŮT, Martin. *Selected issues of digital technology usage in mathematics education of engineers*. 1st ed. Köthen, Germany : Hochschule Anhalt, 2015. 185 p. Scientific Monographs. ISBN 978-3-86011-085-0.
- AAA03 PIVARČIOVÁ, Elena - BOŽEK, Pavol - AL AKKAD, Aiman - YAKIMOVICH, Boris. *Automated systems of image verification*. 1. vyd. Gliwice : P.A. NOVA, 2015. 229 s. ISBN 978-83-940150-7-7.
- AAA04 RIEČIČIAROVÁ, Eva. *Dynamic analysis of gearboxes with gear drives*. 1st ed. Köthen, Germany Hochschule Anhalt 2015. 96 p. Scientific Monographs. ISBN 978-3-86011-076-8.

ADC Vedecké práce v zahraničných karentovaných časopisoch

- ADC01 KÖVÉR, Michal - BEHŮLOVÁ, Mária - DRIENOVSKÝ, Marián - MOTYČKA, Petr. Determination of the specific heat using laser flash apparatus. In *Journal of Thermal Analysis and Calorimetry*. 16 may 2015 (2015), online, [6] s., doi: 10.1007/s10973-015-4748-0. ISSN 1388-6150. V databáze: DOI: doi: 10.1007/s10973-015-4748-0 ; MLJ ; SCOPUS ; WOS.
- ADC02 ŠOVČÍKOVÁ, Eva - WIMMEROVÁ, Soňa - STRÉMY, Maximilián - KOTIANOVÁ, Janette - LOFFREDO, Christopher A. - PALKOVIČOVÁ, Ľubica - CHOVANCOVÁ, Jana - ČONKA, Kamil - LANCZ, Kinga - TRNOVEC, Tomáš. Simple reaction time in 8-9 year old children environmentally exposed to PCBs. In *NeuroToxicology*. Vol. 51, December 01 (2015), s. 138-144. ISSN 0161-813X. V databáze: SCOPUS ; WOS ; MLJ ; DOI: DOI: 10.1016/j.neuro.2015.10.005.
- ADC03 VRÁBEL, Róbert. On the lower and upper solutions method for the problem of elastic beam with hinged ends. In *Journal of Mathematical analysis and*

applications. Vol. 421, iss. 2 (2015), s.1455-1468. ISSN 0022-247X. V databáze: WOS ; SCOPUS ; CC ; DOI: DOI: 10.1016/j.jmaa.2014.08.004.

- ADC04 VRÁBEL, Róbert - ABAS, Marcel - TANUŠKA, Pavol - VAŽAN, Pavel - KEBÍSEK, Michal - ELIÁŠ, Michal - ŠUTOVÁ, Zuzana - PAVLIAK, Dušan. Mathematical approach to security risk assessment. In *Mathematical Problems in Engineering*. Volume 2015, (2015), [11] s. ISSN 1024-123X. V databáze: MLJ ; SCOPUS ; WOS ; DOI: DOI: 10.1155/2015/417597.
- ADC05 WIMMEROVÁ, Soňa - WATSON, Alan - DROBNÁ, Beata - ŠOVČÍKOVÁ, Eva - WEBER, Roland - LANCZ, Kinga - PATAYOVÁ, Henrieta - RICHTEROVÁ, Denisa - KOŠTIAKOVÁ, Vladimíra - JUREČKOVÁ, Dana - ZÁVACKÝ, Pavol - STRÉMY, Maximilián - JUSKO, Todd A. - PALKOVIČOVÁ, Ľubica - HERTZ-PICCIOTTO, Irva - TRNOVEC, Tomáš. The spatial distribution of human exposure to PCBs around a former production site in Slovakia. In *Environmental science and pollution research*. Vol. 22, iss. 19, 07 August 2015 (2015), s. 14405-14415. ISSN 0944-1344. V databáze: SCOPUS ; WOS ; MLJ ; DOI: DOI: 10.1007/s11356-015-5047-9.
- ADE Vedecké práce v ostatných zahraničných časopisoch**
- ADE01 BABALOVÁ, Eva - NAGY, Máté - BEHÚLOVÁ, Mária. Design of the laser power parameters for welding of titanium and aluminium alloy using numerical simulation. In *Advanced Science, Engineering and Medicine*. Vol. 7, No. 4 (2015), s. 253-257. ISSN 2164-6627(P).
- ADE02 BOŽEK, Pavol - KORSHUNOV, A. I. The new system of control and verification in virtual scene. In *Vestnik Iževskogo gosudarstvennogo techničeskogo universiteta*. Vol. 63, No. 3 (2014), s. 168-171. ISSN 1813-7903.
- ADE03 GERULOVÁ, Kristína - ŠKULAVÍK, Tomáš - ŠTEFKO, Tomáš. Preliminary study of ten randomly selected metalworking fluids biodegradability. In *International Journal of Engineering Innovation & Research [elektronický zdroj]*. Vol. 4, iss. 6 (2015), online, s. 872-876. ISSN 2277-5668.
- ADE04 GERULOVÁ, Kristína - ŠKULAVÍK, Tomáš - ŠTEFKO, Tomáš. Indirect measurement of the biodegradability by the utilization of conductometric probes and self developed interface. In *International Journal of Engineering Innovation & Research [elektronický zdroj]*. Vol. 4, iss. 6 (2015), online, s. 867-871. ISSN 2277-5668.
- ADE05 GRAMBLIČKA, Matúš - VASKÝ, Jozef. Preprocessing of Digitalized Engineering Drawings. In *Modern Applied Science [elektronický zdroj]*. Vol. 9, no. 13 (2015), s. 53-59, online. ISSN 1913-1844(P).
- ADE06 HÜSNÜGÜL, Yilmaz Atay - AIŠMAN, David - JIRKOVÁ, Hana - BEHÚLOVÁ, Mária - MAŠEK, Bohuslav. Complex shape metallic glass composites produced in one step by mini-thixoforming. In *International Journal of Material Forming*. First online: 08 September 2015 (2015), s. 1-8. ISSN 1960-6206. V databáze: SCOPUS ; DOI: DOI: 10.1007/s12289-015-1266-3.

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- ADE08 KVETAN, Karol - KUBLIHA, Marian - OŽVOLDOVÁ, Miroslava - BOŠÁK, Ondrej - NAĎ, Milan - KOTIANOVÁ, Janette. New dynamic method for examination of elastic properties of thin wire samples. In *Edukacja - Technika - Informatyka*. Vol. 12, No. 2 (2015), s. 179-185. ISSN 2080-9069.
- ADE09 LABAŠ, Vladimír - ĎURIŠ, Rastislav - LABAŠOVÁ, Eva. Determining of maximum stress in circular and circular hollow rod by measurement of strains. In *Edukacja - Technika - Informatyka*. Vol. 12, No. 2 (2015), s. 173-178. ISSN 2080-9069.
- ADE10 PAVLIAK, Dušan - VRÁBEL, Róbert. On control of data flows in heterogeneous enterprise systems. In *International Journal of Engineering and Applied Sciences*. Vol. 2, Iss. 3 (2015), online, s. 79-80. ISSN 2305-8269.
- ADE11 STEINHAUSER, Jozef - NAĎ, Milan. Principles of modelling of machine aggregates. In *Acta Technica Corviniensis - Bulletin of Engineering [elektronický zdroj]*. Tom. VIII, fasc. 4 (2015), online, s. 57-59. ISSN 2067-3809.

ADF Vedecké práce v ostatných domácich časopisoch

- ADF01 CUNINKA, Peter - STRÉMY, Maximilián. Evaluation of safety parameters according to IEC standards. In *Vedecké práce MtF STU v Bratislave so sídlom v Trnave. Research papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava*. Vol. 23, Special Number (2015), s. 29-36. ISSN 1336-1589. V databáze: INSPEC.
- ADF02 ELIÁŠ, Andrej - ZÁVACKÝ, Pavol. Remote dosimetry monitoring unit for human unfriendly environment. In *Vedecké práce MtF STU v Bratislave so sídlom v Trnave. Research papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava*. Vol. 23, Special Number (2015), s. 37-44. ISSN 1336-1589. V databáze: INSPEC.
- ADF03 GERULOVÁ, Kristína - TATARKA, Ondrej - ŠTEFKO, Tomáš - ŠKULAVÍK, Tomáš. The study of metalworking fluids biodegradability by indirect measurement of bacterial inoculum respiration. In *Vedecké práce MtF STU v Bratislave so sídlom v Trnave. Research papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava*. Vol. 23, No. 36 (2015), s. 65-76. ISSN 1336-1589. V databáze: INSPEC.
- ADF04 GERULOVÁ, Kristína - TATARKA, Ondrej - ŠTEFKO, Tomáš - ŠKULAVÍK, Tomáš. The study into potential enhancement of metalworking fluids biodegradability by the application of O3/UV. In *Vedecké práce MtF STU v Bratislave so sídlom v Trnave. Research papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava*. Vol. 23, No. 36 (2015), s. 77-86. ISSN 1336-1589. V databáze: INSPEC.

- ADF05 LYALIN, Vadim - LOZHNIKIN, Alexander - PRAJOVÁ, Vanesa - BOŽEK, Pavol. The reverse validation of trajectories for robot. In *Acta Simulatio*. Vol. 1, iss. 2 (2015), s. 15-18, online. ISSN 1339-9640.
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ADM Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADM01 BOŽEK, Pavol - NIKITIN, Yury R. - BEZÁK, Pavol - FEDORKO, Gabriel - FABIAN, Michal. Increasing the production system productivity using inertial navigation. In *Manufacturing technology*. Vol. 15, no. 3 (2015), online, s. 274-278. ISSN 1213-2489. V databáze: SCOPUS.
- ADM02 FABIÁN, Michal - BOSLAI, Róbert - IŽOL, Peter - JANEKOVÁ, Jaroslava - FABIANOVÁ, Jana - FEDORKO, Gabriel - BOŽEK, Pavol. Use of parametric 3D modelling - tying parameter values to spreadsheets at designing molds for plastic injection. In *Manufacturing technology*. Vol. 15, No. 1 (2015), online, s. 24-31. ISSN 1213-2489. V databáze: SCOPUS.
- ADM03 VRÁBEL, Róbert - LIŠKA, Vladimír - ŠUTOVÁ, Zuzana. Numerical simulation of high sensitivity of solutions to the nonlinear singularly perturbed dynamical system on the initial conditions and parameter. In *International Journal of Mathematical Analysis [elektronický zdroj]*. Vol. 9, No. 43 (2015), online s.2099-2109. ISSN 1312-8876(P). V databáze: SCOPUS.
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- ADM05 ZAHRADNÍKOVÁ, Barbora - DUCHOVIČOVÁ, Soňa - SCHREIBER, Peter. Image Mining: Review and New Challenges. In *International Journal of Advanced Computer Science and Applications*. Vol. 6, no. 7 (2015), online, s. 242-246. ISSN 2158-107X(P). V databáze: WOS.

ADN Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADN01 ČERNECKÝ, Jozef - BOŽEK, Pavol - PIVARČIOVÁ, Elena. A new system for measuring the deflection of the beam with the support of digital holographic interferometry. In *Journal of Electrical Engineering*. Vol. 66, Iss. 1 (2015), online, s. 53-56. ISSN 1335-3632. V databáze: SCOPUS ; WOS ; MLJ.
- ADN02 ČERNECKÝ, Jozef - VALENTOVÁ, Karina - PIVARČIOVÁ, Elena - BOŽEK, Pavol. Ionization impact on the air cleaning efficiency in the interior. In *Measurement Science Review [elektronický zdroj]*. Vol. 15, No. 4 (2015), online, s. 156-166. ISSN 1335-8871. V databáze: SCOPUS ; WOS.

AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

- AEC01 BOŽEK, Pavol - ABRAMOV, Andrei I. - ABRAMOV, Ivan V. - NIKITIN, Jury - ROMANOV, Alexander. Synchronous control of parallel axes equipment. In *Applied Mechanics and Materials*. Vol. 816 (2015), s. 69-75. ISSN 1660-9336.
- AEC02 BOŽEK, Pavol - KORSHUNOV, A. I. - KOLLÁR, Pavol. Technological system for weight measurements in a logistic warehouse. In *Applied Mechanics and Materials*. Vol. 816 (2015), s. 118-124. ISSN 1660-9336.
- AEC03 BOŽEK, Pavol - PIVARČIOVÁ, Elena - KORSHUNOV, A. I. Reverse validation in the robots control. In *Applied Mechanics and Materials*. Vol. 816 (2015), s. 125-131. ISSN 1660-9336.
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- AEC05 LABAŠ, Vladimír - LABAŠOVÁ, Eva. Exploitation of activating teaching methods in teaching process. In *Present Day Trends of Innovations 5*. 1. vyd. Lomža : Printing House of Lomza State University of Applied Sciences, 2015, S. 200-205. ISBN 978-83-60571-35-4.
- AEC06 LEKOMTSEV, Pavel - BOŽEK, Pavol - ROMANOV, Alexander - ABRAMOV, Andrei I. - ABRAMOV, Ivan V. - NIKITIN, Jury. Extracting load research of taper interference fit made of glass and ceramics parts using a servo press. In *Applied Mechanics and Materials*. Vol. 816 (2015), s. 461-468. ISSN 1660-9336.

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 BOŽEK, Pavol - PIVARČIOVÁ, Elena. Inertial Navigate System Application In Manufacturing Technique. In *Technological Forum 2015 : 6th International Technical Conference*, 23.-25.6.2015, Kouty, Czech Republic. 1. vyd. Praha : Czech Technical University in Prague, 2015, S. 163-165. ISBN 978-80-87583-13-5.
- AFC02 CUNINKA, Peter - FRANÍK, Jakub - STRÉMY, Maximilián. Safety standards for safety-critical processes in the railway industry. In *Central European Conference on Information and Intelligent Systems : IDS 2015. 10th International Doctoral Seminar. Varaždin, Croatia, 23.-25. 9. 2015*. 1.st. ed. Varaždin : Faculty of Organization and Informatics University of Zagreb, 2015, S. 15-18. ISSN 1847-2001.
- AFC03 CUNINKA, Peter - ZÁVACKÝ, Pavol - STRÉMY, Maximilián. Influence of architecture on reliability and safety of the SRCS with safety PLC. In *Mathematics and Computers in Science and Industry [elektronický zdroj] : MCSI 2015 : Sliema, Malta, August 17-19, 2015*. 1st ed. [S.l.] : IEEE Computer Society, 2015, CD-ROM, s. 225-230. ISBN 978-1-4799-8673-6. V databáze: SCOPUS: DOI: 10.1109/MCSI.2015.38 ; WOS.

- AFC04 DUCHOVIČOVÁ, Soňa - ZAHRADNÍKOVÁ, Barbora - SCHREIBER, Peter - STRÉMY, Maximilián. Systems for optical identification of persons. In *Central European Conference on Information and Intelligent Systems : IDS 2015. 10th International Doctoral Seminar. Varaždin, Croatia, 23.-25. 9. 2015. 1.st. ed.* Varaždin : Faculty of Organization and Informatics University of Zagreb, 2015, S. 19-22. ISSN 1847-2001.
- AFC05 GAŠPAR, Gabriel - FABO, Peter. Prevádzka solárnych kolektorov s hydraulickým systémom typu drain-back. In *MMK 2015. 6. Mezinárodní Masarykova konference pro doktorandy a mladé vědecké pracovníky [elektronický zdroj] : sborník příspěvků z mezinárodní vědecké konference, 14. - 18. 12. 2015, Hradec Králové, Česká republika. 1. vyd. Hradec Králové : Magnanimitas, 2015, online, s. 2041-2050. ISBN 978-80-87952-12-2.*
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- AFC07 CHMELÍKOVÁ, Gabriela - TÓTHOVÁ, Mária. ICT for learning and teaching development at Slovak university of technology. In *EDULEARN15 Proceedings [elektronický zdroj] : 7th International Conference on Education and New Learning Technologies : Barcelona, Spain, 6-8 July, 2015. 1st ed. [S.l.] : IATED, 2015, DVD-ROM, S. 7560-7565. ISSN 2340-1117. ISBN 978-84-606-8243-1. V databáze: WOS: WOS:000376685707087.*
- AFC08 JUHÁSOVÁ, Bohuslava - JUHÁS, Martin - MASÁROVÁ, Renáta - ŠUTOVÁ, Zuzana. Tool for Analysing the Sensitivity and Tolerance of Mechatronic Systems in Matlab GUI. In *ICCIT 2015, Copenhagen, Denmark, 11.-12.6.2015. 17, 6, Part VIII (2015), DVD-ROM, s. 1873-1877. ISSN 1307-6892.*
- AFC09 JUROVATÁ, Dominika - BAJČIČÁKOVÁ, Ingrida - NÉMETH, Martin - TANUŠKA, Pavol - VAŽAN, Pavel. Research project focused on knowledge discovery for hierarchical control of technological and production processes. In *Central European Conference on Information and Intelligent Systems : IDS 2015. 10th International Doctoral Seminar. Varaždin, Croatia, 23.-25. 9. 2015. 1.st. ed.* Varaždin : Faculty of Organization and Informatics University of Zagreb, 2015, S. 23-26. ISSN 1847-2001.
- AFC10 KARASOVÁ, Miroslava - NIKMON, Marcel - ŠKODA, Filip - MIKLOŠ, Andrej - ŠUTOVÁ, Zuzana. Think and go - an application for a brain-controlled electric wheelchair. In *Central European Conference on Information and Intelligent Systems : IDS 2015. 10th International Doctoral Seminar. Varaždin, Croatia, 23.-25. 9. 2015. 1.st. ed.* Varaždin : Faculty of Organization and Informatics University of Zagreb, 2015, S. 31-34. ISSN 1847-2001.
- AFC11 MARKECHOVÁ, Iveta. Translational surface via elliptic curve - synographical approach. In *Aktual'nyje problemy sovremennoj nauki : IV.*

Meždunarodnaja naučno-praktičeskaja konferencija, Alušta, 27. - 30. 04. 2015.
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- AFC12 MARKECHOVÁ, Iveta - ČERVEŇANSKÁ, Zuzana. Is there any correlation between elliptic curve and lissajous figure? In *Aktual'nyje problemy sovremennoj nauki : IV. Meždunarodnaja naučno-praktičeskaja konferencija, Alušta, 27. - 30. 04. 2015.* Vypusk 4, Tom 2 (2015), s. 199-203. ISSN 2227-1392.
- AFC13 MASÁROVÁ, Renáta - JUHÁS, Martin - JUHÁSOVÁ, Bohuslava - ŠUTOVÁ, Zuzana. Inverse Matrix in the Theory of Dynamic Systems. In *ICCIT 2015, Copenhagen, Denmark, 11.-12.6.2015.* 17, 6, Part VIII (2015), DVD-ROM, s. 1878-1881. ISSN 1307-6892.
- AFC14 MASÁROVÁ, Renáta. O zachovávaní divergencie číselných postupností a radov. In *Matematika, informační technologie a aplikované vědy 2015 [elektronický zdroj] : Konference MITAV 2015, 18.-19.6.2015, Brno.* 1. vyd. Brno : Univerzita obrany v Brně, 2015, CD-ROM, [4] s. ISBN 978-80-7231-998-5.
- AFC15 MICHAĽČONOK, German - NÉMETH, Martin. Simulation of random events with the use of Simatic Step7. In *Aktual'nyje problemy sovremennoj nauki : IV. Meždunarodnaja naučno-praktičeskaja konferencija, Alušta, 27. - 30. 04. 2015.* Vypusk 4, Tom 2 (2015), s. 207-210. ISSN 2227-1392.
- AFC16 MICHAĽČONOK, German - KORYTÁR, Marek. Integrovanie principov funkcionál'noj bezopasnosti dl'ja sistem upravlenija processami. In *Aktual'nyje problemy sovremennoj nauki : IV. Meždunarodnaja naučno-praktičeskaja konferencija, Alušta, 27. - 30. 04. 2015.* Vypusk 4, Tom 2 (2015), s. 183-187. ISSN 2227-1392.
- AFC17 MICHAĽČONOK, German - KORYTÁR, Marek - NÉMETH, Martin. Modeling the probability of failure-free operation of control systems. In *Mathematics and Computers in Science and Industry : MCSI 2015 : Sliema, Malta, August 17-19, 2015.* 1st ed. [S.l.] : IEEE Computer Society, 2015, S. 165-169. ISSN 2227-4588. ISBN 978-1-61804-327-6.
- AFC18 MIŠUTOVÁ, Mária - MIŠÚT, Martin. Assessment with information technology support. In *Procedia - Social and Behavioral Sciences.* Vol. 177, (2015), s. 300-305. ISSN 1877-0428. V databáze: WOS: WOS:000380497300051.
- AFC19 NAĐ, Milan - ROLNÍK, Ladislav - ČIČMANCOVÁ, Lenka [Čičmancová, Lenka,]. The effect of partially embedded inner reinforced core on modal properties of the Euler-Bernoulli beam structures. In *Dynamical Systems : DSTA 2015. 13th International Conference. Łódź, Poland, December 7-10, 2015.* 1st Ed. Łódź : Wydawnictwa Uczelniane Politechniki Łódzkiej, 2015, S. 377-388. ISBN 978-83-7283-707-3.
- AFC20 NEMLAHA, Eduard - MIKSA, František - HRČKA, Lukáš. Proposal of software solution to distant access of the alarm registration centre to technical equipment. In *Advanced Materials Research.* Vol. 1083. Selected, peer reviewed papers from the 2014 4th International Conference on Advanced Measurement and

Test (AMT 2014), November 1-2, 2014, Wuhan, China, (2015), s. 202-206. ISSN 1022-6680(P).

- AFC21 PALUMBÍNÝ, Oleg - NEŠTICKÝ, Martin. Criteria for asymptotic stability of fourth-order nonlinear differential equations with quasi-derivatives. In *Advances in Circuits, Systems, Signal Processing and Telecommunications [elektronický zdroj] : Proceedings* : WSEAS, 2015, S. 37-42. ISSN 1790-5117. ISBN 978-1-61804-271-2.
- AFC22 PÉČI, Matúš - VAŽAN, Pavel - ŠURKA, Vladimír. Appropriate technologies for the design of the portal for microsoft dynamics CRM at initial conditions. In *Advances in Information Science and Computer Engineering [elektronický zdroj] : Proceedings of the 9th International Conference on Computer Engineering and Applications*. 1st ed : WSEAS, 2015, S. 271-275. ISSN 1790-5109. ISBN 978-1-61804-276-7.
- AFC23 PETERKOVÁ, Andrea - STRÉMY, Maximilián. Detecting the QRS complex from the raw ECG signal and calculating the heart rate. In *Central European Conference on Information and Intelligent Systems : IDS 2015. 10th International Doctoral Seminar. Varaždin, Croatia, 23.-25. 9. 2015*. 1.st. ed. Varaždin : Faculty of Organization and Informatics University of Zagreb, 2015, S. 47-50. ISSN 1847-2001.
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- AFC25 PRAJOVÁ, Vanesa - TÓTHOVÁ, Mária. Digital Human Models. In *Technological Forum 2015 : 6th International Technical Conference, 23.-25.6.2015, Kouty, Czech Republic*. 1. vyd. Praha : Czech Technical University in Prague, 2015, S. 237-239. ISBN 978-80-87583-13-5.
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GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií

- GII01 ŠIMONČICOVÁ, Veronika. Creating a management view on key indicators using business intelligence. Dostupné na internete: <<http://webcache.googleusercontent.com/search?q=cache:Oe-YCP5ZR2IJ:www.inf.hs-anhalt.de/fileadmin/downloads/dokumente/Konferenzen/ICS2015/Simoncicova.docx+&cd=4&hl=sk&ct=clnk&gl=sk>>.

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