

**TECHNICKÁ UNIVERZITA V KOŠICIACH  
STROJNÍCKA FAKULTA**



**Strojnícka fakulta**

**ZOZNAM PÔVODNÝCH PUBLIKOVANÝCH VEDECKÝCH PRÁC,  
ODBORNÝCH PRÁC, UČEBNÍC A UČEBNÝCH TEXTOV**

**Ing. Tomáš Stejskal, PhD.  
Košice 2020**

**Technická univerzita v Košiciach**  
**Prehľad publikačnej činnosti**  
**Autor: STEJSKAL, Tomáš**  
**Rok vydania do: 2020**  
**Dátum generovania výstupu: 3. 2. 2020, 11:24:05**

**Skupina A2 - Ostatné knižné publikácie (ACA, ACB, BAA, BAB, BCB, BCI, EAI, CAA, CAB, EAJ, FAI)**

**Počet záznamov: 6**

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách (4)

BCI - Skriptá a učebné texty (2)

**Skupina B - Publikácie v karentovaných vedeckých časopisoch a autorské osvedčenia, patenty a objavy (ADC, ADD, AEG, AEH, BDC, BDD, CDC, CDD, AGJ)**

**Počet záznamov: 5**

ADC - Vedecké práce v zahraničných karentovaných časopisoch (3)

AGJ - Autorské osvedčenia, patenty, objavy (2)

**Skupina C - Ostatné recenzované publikácie (ACC, ACD, ADE, ADF, AEC, AED, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, BBA, BBB, BCK, BDA, BDB, BDE, BDF, BEC, BED, BFA, BFB, BGH, CDE, CDF)**

**Počet záznamov: 110**

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (16)

ADF - Vedecké práce v domácich nekarentovaných časopisoch (30)

AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách (3)

AED - Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách (1)

AFB - Publikované pozvané príspevky na domácich vedeckých konferenciách (2)

AFC - Publikované príspevky na zahraničných vedeckých konferenciách (15)

AFD - Publikované príspevky na domácich vedeckých konferenciách (39)

AFG - Abstrakty príspevkov zo zahraničných konferencií (1)

BDE - Odborné práce v zahraničných nekarentovaných časopisoch (1)

BDF - Odborné práce v domácich nekarentovaných časopisoch (2)

**Skupina N - Nové kategórie EPC v zmysle Vyhlášky č. 456/2012 (ADM, ADN, AEM, AEN, BDM, BDN, CBA, CBB)**

**Počet záznamov: 5**

ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (4)

ADN - Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS (1)

**Skupina D - Ostatné - mimo kategórií MŠSR**

**Počet záznamov: 4**

AEF - Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch, monografiách (1)

BEE - Odborné práce v zahraničných nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

DAI - Dizertačné a habilitačné práce (1)

**Počet záznamov spolu: 130**

**Menný zoznam publikácií:**

**ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách(4)**

ACB001 [90633] **Základy prevádzky a údržby strojov** / Štefan Valenčík, Tomáš Stejskal - 1. vyd - Košice : Sjf TU - 2009. - 105 s. - ISBN 978-80-553-0252-2.

[VALENČÍK, Štefan (50%) - STEJSKAL, Tomáš (50%)]

ACB002 [91364] **Technická diagnostika** / Tomáš Stejskal, Štefan Valenčík - 1. vyd - Košice : SJF TU - 2009. - 215 s. - ISBN 978-80-553-0313-0.  
[STEJSKAL, Tomáš (50%) - VALENČÍK, Štefan (50%)]

ACB003 [163352] **Údržba, diagnostika a opravy strojov** / Štefan Valenčík, Tomáš Stejskal - 1. vyd - Košice : TU, SJF - 2015. - 229 s.. - ISBN 978-80-553-2249-0.  
[VALENČÍK, Štefan (70%) - STEJSKAL, Tomáš (30%)]

ACB004 [175511] **Dizajn strojov 1** / Tomáš Stejskal ... [et al.] - 1. vyd. - Košice : TU - 2016. - 151 s.. - ISBN 978-80-553-3005-1.  
[STEJSKAL, Tomáš (40%) - SVETLÍK, Jozef (30%) - PALAŠČÁKOVÁ, Dominika (25%) - ŽILINSKÝ, Adam (5%)]

### **ADC - Vedecké práce v zahraničných karentovaných časopisoch(3)**

ADC001 [190819] **Measurement of static stiffness after motion on a three-axis CNC milling table** / Tomáš Stejskal ... [et al.] - 2018.In: Applied Sciences - Basel. Vol. 8, no. 1 (2018), p. 1-17. - ISSN 2076-3417 Spôsob prístupu:  
[http://apps.webofknowledge.com/Search.do?product=WOS&SID=F6VYNdQzyNcudOvngWT&search\\_mode=GeneralSearch&prID=b44a2b10-0233-409a-8662-a4bc0a59448e](http://apps.webofknowledge.com/Search.do?product=WOS&SID=F6VYNdQzyNcudOvngWT&search_mode=GeneralSearch&prID=b44a2b10-0233-409a-8662-a4bc0a59448e).  
[STEJSKAL, Tomáš (20%) - SVETLÍK, Jozef (20%) - DOVICA, Miroslav (20%) - DEMEČ, Peter (20%) - KRÁL, Ján ml. (20%)]

ADC002 [208427] **Specific principles of work area stiffness measurement applied to a modern three-axis milling machine** / Tomáš Stejskal ... [et al.] - 2019.In: The International Journal of Advanced Manufacturing Technology. - Berlin (Nemecko) : Springer International Publishing AG Roč. 103, č. 5-8 (2019), s. 2541-2554 [print, online]. - ISSN 0268-3768  
[STEJSKAL, Tomáš (20%) - MELKO, Jaroslav (20%) - RJABUŠIN, Adrián (20%) - FEDORKO, Gabriel (20%) - HATALA, Michal (10%) - MOLNÁR, Vierošlav (10%)]

ADC003 [210014] **Prospective increase in the heat pump's efficiency through arrangement in a three-temperature system** / Tomáš Stejskal ... [et al.] - 2019.In: Advances in Mechanical Engineering. Roč. 11, č. 10 (2019), s. 1-13 [print]. - ISSN 1687-8132 Spôsob prístupu:  
<https://journals.sagepub.com/doi/full/10.1177/1687814019880989>.  
[STEJSKAL, Tomáš (30%) - SVETLÍK, Jozef (29%) - DEMEČ, Peter (20%) - ŽILINSKÝ, Adam (1%) - KOVÁČ, Juraj (20%)]

### **ADE - Vedecké práce v zahraničných nekarentovaných časopisoch(16)**

ADE001 [18668] **Monitorovanie technologických parametrov tenkých plechov pri nekonvenčných rýchlostiach strihania** / J. Lachváč, P. Parimucha, T. Stejskal - 1996.In: Mechanika-Wytworzenie i konstrukcje elementów maszyn. Č. 142 (1996), s. 87-91. - ISSN 0209-2689  
[LACHVÁČ, Jozef (10%) - PARIMUCHA, Peter (80%) - STEJSKAL, Tomáš (10%)]

ADE002 [59761] **The technical resources for automation of sowing and plant seedlings** / Tomáš Stejskal, Dušan Tresa, Vojtech Anna - 2007.In: Scientific Bulletin. Vol. 21, serie C (2007), p. 651-656. - ISSN 1224-3264  
[STEJSKAL, Tomáš - TRESA, Dušan - ANNA, Vojtech]

ADE003 [109092] **Nemlineáris öt elem rendszer a karbantartásban** / Tomáš Stejskal - 2011.In: Műszaki szemle : Technical Review. No. 53 (2011), p. 29-38. - ISSN 1454-0746 Spôsob prístupu:  
[http://www.emt.ro/hu/tevekenysegeink/kiadvanyok\\_periodikak/](http://www.emt.ro/hu/tevekenysegeink/kiadvanyok_periodikak/).  
[STEJSKAL, Tomáš (100%)]

ADE004 [109880] **Dôležitosť školiaceho procesu pri znižovaní neprazdnivého vplyvu ľudského faktora v údržbe** / Tomáš Stejskal - 2011.In: International Scientific Herald. Vol. 21, no. 2 (2011), p. 206-207. - ISSN 2218-5348  
[STEJSKAL, Tomáš (100%)]

ADE005 [123529] **Determination of the main tasks in designing of production machinery** / Michal Varchola, Jozef Svetlík, Tomáš Stejskal - 2012.In: International Scientific Herald. P. 219-223. - ISSN 2218-5348  
[VARCHOLA, Michal (34%) - SVETLÍK, Jozef (33%) - STEJSKAL, Tomáš (33%)]

ADE006 [123530] **Importance of indirect availability assesment** / Tomáš Stejskal, Jozef Svetlík, Michal Varchola - 2012.In: International Scientific Herald. Vol. 3, no. 2 (2012), p. 192-196. - ISSN 2218-5348  
[STEJSKAL, Tomáš (50%) - SVETLÍK, Jozef (25%) - VARCHOLA, Michal (25%)]

ADE007 [125595] **Failure rate for repaired and not repaired object** / Tomáš Stejskal, Jozef Svetlík - 2012.In: Annals of faculty engineering Hunedoara - International journal of engineering. Vol. 10, no. 3 (2012), p. 351-354. - ISSN 1584-2673 Spôsob prístupu:  
<http://annals.fih.upt.ro/pdf-full/2012/ANNALS-2012-3-61.pdf>.  
[STEJSKAL, Tomáš (70%) - SVETLÍK, Jozef (30%)]

ADE008 [125698] **Background and activities of the process reconstruction of safe tool machine** / Štefan Valenčík ... [et al.] - 2012.In: Annals of Faculty of Engineering Hunedoara. Vol. 10, no. 3 (2012), p. 317-322. - ISSN 1584-2673 Spôsob prístupu:  
<http://annals.fih.upt.ro/pdf-full/2012/ANNALS-2012-3-54.pdf>.  
[VALENČÍK, Štefan (20%) - STEJSKAL, Tomáš (20%) - BIČEJOVÁ, Ľuba (20%) - KMEC, Ján (20%) - GOMBÁR, Miroslav (20%)]

ADE009 [126411] **Tvorba dotazníka pre vhodný výber pracovníkov na údržbárske práce** / Tomáš Stejskal - 2012.In: Internatiaonal scientific herald. Vol. 4, no. 1 (2012), p. 355-356. - ISSN 2218-5348  
[STEJSKAL, Tomáš (100%)]

ADE010 [126478] **Reliability analysis of mechanical systems** / Tomáš Stejskal - 2012.In: International Scientific Herald. Vol. 3, no. 2 (2012), p. 185-186.  
[STEJSKAL, Tomáš (100%)]

ADE011 [126480] **Economical evaluation of machinery renewal** / Tomáš Stejskal, Juraj Kováč - 2012.In: International Scientific Herald. Vol. 3, no. 2 (2012), p. 187-191. - ISSN 2218-5348  
[STEJSKAL, Tomáš (50%) - KOVÁČ, Juraj (50%)]

ADE012 [128474] **Educational and psychological aspects of personel selection for machinery maintenance** / Tomáš Stejskal, Štefan Valenčík - 2012.In: International Scientific Herald. Vol. 5, no. 24 (2012), p. 196-197. - ISSN 2218-5348  
[STEJSKAL, Tomáš (50%) - VALENČÍK, Štefan (50%)]

ADE013 [128475] **Safety program for education - reconstruction of tool machine** / Štefan Valenčík, Tomáš Stejskal - 2012.In: International Scientific Herald. Vol. 5, no. 24 (2012), p. 230-234. - ISSN 2218-5348  
[VALENČÍK, Štefan (50%) - STEJSKAL, Tomáš (50%)]

ADE014 [129891] **Modernization of production bases with the use of knowledge information** / Juraj Kováč, Tomáš Stejskal - 2012.In: International Scientific Herald. Vol. 3, no. 2 (2012), p. 116-122. - ISSN 2218-5348  
[KOVÁČ, Juraj (50%) - STEJSKAL, Tomáš (50%)]

ADE015 [141201] **Diferences in the reliability of human and machine** / Tomáš Stejskal - 2013.In:

International Scientific Herald. Vol. 7, no. 26 (2013), p. 181-183. - ISSN 2218-5348  
[STEJSKAL, Tomáš (100%)]

ADE016 [152047] **Development prospect of maintenance** / Tomáš Stejskal - 2014.In: International Scientific Herald. No. 8(27) (2014), p. 228-230. - ISSN 2218-5348  
[STEJSKAL, Tomáš (100%)]

#### **ADF - Vedecké práce v domácich nekarentovaných časopisoch(30)**

ADF001 [BPČ/10067] **Informačný obsah signálu riadiálnej reakcie vo valivom uložení hriadeľa prevodovky** / Tomáš Stejskal - 1998.In: Acta Mechanica Slovaca. Roč. 2, č. 4 (1998), s. 63-64. - ISSN 1335-2393  
[STEJSKAL, Tomáš]

ADF002 [117535] **Úrovně automatického řízení mechanismů** / Tomáš Stejskal, Peter Tuleja - 2003.In: Acta Mechanica Slovaca : Robtep 2003. Roč. 7, č. 3 (2003), s. 141-144. - ISSN 1335-2393  
[STEJSKAL, Tomáš (75%) - TULEJA, Peter (25%)]

ADF003 [47342] **Problematika merania modulu pružnosti pre kompozitné materiály vyrobených na báze epoxidových živíc = Shakiness of E modul measurement for composite materials based on a epoxy resin** / Tomáš Stejskal ... [et al.] - 2003.In: Acta Mechanica Slovaca. Roč. 7, č. 4 (2003), s. 119-122. - ISSN 1335-2393  
[STEJSKAL, Tomáš (96%) - ŠARO, Martin (1%) - SCHULZ, Štefan (1%) - EMMER, Thomas (1%) - MENZ, Peter (1%)]

ADF004 [55510] **Stratégia vývoja a výroby strojového systému = Evolution and technology strategy of machine systems** / Štefan Valenčík, Tomáš Stejskal - 2006.In: Acta Mechanica Slovaca. Roč. 10, č. 2-A ROBTEP 2006 (2006), s. 589-594. - ISSN 1335-2393  
[VALENČÍK, Štefan (50%) - STEJSKAL, Tomáš (50%)]

ADF005 [66800] **Effect of the modularity of mechanical system for stiffness and technological production severity** / Tomáš Stejskal, Štefan Valenčík - 2007.In: Acta Mechanica Slovaca. Roč. 11, č. 2-A/2007 (2007), s. 145-148. - ISSN 1335-2393  
[STEJSKAL, Tomáš (50%) - VALENČÍK, Štefan (50%)]

ADF006 [76043] **Modely vzniku porúch vo výrobných a robotických systémoch = Models of failure genesis in production and robotics systems** / Tomáš Stejskal - 2008.In: Acta Mechanica Slovaca. Roč. 12, č. 2-A (2008), s. 601-606. - ISSN 1335-2393  
[STEJSKAL, Tomáš (100%)]

ADF007 [76044] **Prepojenie dizajnu a konštrukčných riešení vo výrobnej technike** / Tomáš Stejskal - 2008.In: Acta Mechanica Slovaca. Roč. 12, č. 2-A (2008), s. 607-612. - ISSN 1335-2393  
[STEJSKAL, Tomáš (100%)]

ADF008 [81912] **Mechanizmy náhodného rozdelenia porúch** / Tomáš Stejskal, Naqib Daneshjo - 2009.In: Strojárstvo. Roč. 8, č. 2 (2009), s. 78/4-79/5. - ISSN 1335-2938 Spôsob prístupu:  
<http://www.strojastvo.sk>.  
[STEJSKAL, Tomáš (50%) - DANESHJO, Naqib (50%)]

ADF009 [85809] **Uchopovanie a manipulácia ľahkých častíc** / Dušan Tresa, Tomáš Stejskal - 2009.In: Výrobné inžinierstvo. Č. 3 (2009), s. 89-90. - ISSN 1335-7972 Spôsob prístupu:  
<http://web.tuke.sk/fvtipo/casopis/>.  
[TRESA, Dušan (50%) - STEJSKAL, Tomáš (50%)]

ADF010 [88098] **Taktiky zabezpečenia celkovej údržby** / Tomáš Stejskal - 2009.In: Spravodaj ATD

SR. Č. 1-2 (2009), s. 26-27. - ISSN 1337-8252  
[STEJSKAL, Tomáš (100%)]

ADF011 [89213] **Kinematika servisného robota v údržbe lesného prostredia** / Tomáš Stejskal - 2009.In: Acta Mechanica Slovaca. Roč. 13, č. 2-A (2009), s. 213-214. - ISSN 1335-2393  
[STEJSKAL, Tomáš (100%)]

ADF012 [103849] **Informačný obsah stacionarity signálu** / Tomáš Stejskal - 2010.In: Spravodaj ATD SR. Č. 1, 2 (2010), s. 18-19. - ISSN 1337-8252  
[STEJSKAL, Tomáš (100%)]

ADF013 [125108] **Reference physical solutions for models of production systems** / Juraj Kováč, Štefan Valenčík, Tomáš Stejskal - 2012.In: Transfer inovácií. Č. 23 (2012), s. 204-206. - ISSN 1337-7094 Spôsob prístupu:  
<http://www.sjf.tuke.sk/transferinovacii/pages/archiv/transfer/23-2012/pdf/204-206.pdf>.  
[KOVÁČ, Juraj (34%) - VALENČÍK, Štefan (33%) - STEJSKAL, Tomáš (33%)]

ADF014 [125109] **Posudzovania rizík rekonštruovaného výrobného stroja** / Štefan Valenčík, Tomáš Stejskal, Juraj Kováč - 2012.In: Transfer inovácií. Č. 23 (2012), s. 89-90. - ISSN 1337-7094 Spôsob prístupu: <http://www.sjf.tuke.sk/transferinovacii/pages/archiv/transfer/23-2012/pdf/089-090.pdf>.  
[VALENČÍK, Štefan (34%) - STEJSKAL, Tomáš (33%) - KOVÁČ, Juraj (33%)]

ADF015 [125111] **Kobinácie prevádzkových porúch strojov a ich štatistické rozdelenie** / Tomáš Stejskal, Štefan Valenčík, Juraj Kováč - 2012.In: Transfer inovácií. Č. 23 (2012), s. 105-106. - ISSN 1337-7094 Spôsob prístupu:  
<http://www.sjf.tuke.sk/transferinovacii/pages/archiv/transfer/23-2012/pdf/105-106.pdf>.  
[STEJSKAL, Tomáš (34%) - VALENČÍK, Štefan (33%) - KOVÁČ, Juraj (33%)]

ADF016 [125112] **Plánovanie obnovy distribučných sietí** / Štefan Valenčík, Tomáš Stejskal, Alena Pešková - 2012.In: Transfer inovácií. Č. 23 (2012), s. 111-112. - ISSN 1337-7094 Spôsob prístupu:  
<http://www.sjf.tuke.sk/transferinovacii/pages/archiv/transfer/23-2012/pdf/111-112.pdf>.  
[VALENČÍK, Štefan (34%) - STEJSKAL, Tomáš (33%) - PEŠKOVÁ, Alena (33%)]

ADF017 [126410] **Účinnosť koeficientu pohotovosti s ohľadom na rizikový faktor** / Tomáš Stejskal - 2012.In: Spravodaj ATD SR. Roč. 5, č. 1 (2012), s. 19-20. - ISSN 1337-8252  
[STEJSKAL, Tomáš (100%)]

ADF018 [126637] **Modely štatistických rozdelení pre konkrétne poruchy** / Tomáš Stejskal, Jozef Svetlík - 2012.In: Journal of Innovations and Applied Statistics. Roč. 2, č. 1 (2012), s. 19-24. - ISSN 1338-5224  
[STEJSKAL, Tomáš (70%) - SVETLÍK, Jozef (30%)]

ADF019 [141303] **Analysis of hidden reasons of failures** / Tomáš Stejskal - 2013.In: ATP Journal plus. Č. 1 (2013), s. 64-65. - ISSN 1336-5010  
[STEJSKAL, Tomáš (100%)]

ADF020 [152122] **Development and use of production base** / Štefan Valenčík, Tomáš Stejskal - 2014.In: Transfer inovácií. Č. 29 (2014), s. 162-163. - ISSN 1337-7094 Spôsob prístupu:  
<http://www.sjf.tuke.sk/transferinovacii>.  
[VALENČÍK, Štefan (50%) - STEJSKAL, Tomáš (50%)]

ADF021 [152313] **Creation CMMS applications in MS Excel** / Tomáš Stejskal, Štefan Valenčík - 2014.In: Transfer inovácií. Č. 29 (2014), s. 168-170. - ISSN 1337-7094 Spôsob prístupu:  
<http://www.sjf.tuke.sk/transferinovacii/pages/archiv/transfer/29-2014/pdf/168-170.pdf>.  
[STEJSKAL, Tomáš (50%) - VALENČÍK, Štefan (50%)]

ADF022 [152314] **Možnosti tvorby diagnostických ukazovateľov výrobných strojov pri použití laserového interferometra** / Tomáš Stejskal - 2014.In: Spravodaj ATD SR. Roč. 11, č. 2 (2014), s. 15-16. - ISSN 1337-8252  
[STEJSKAL, Tomáš (100%)]

ADF023 [152911] **Optimum density measurements for the determination of the parameters of failures verified by Monte Carlo method** / Tomáš Stejskal, Renáta Turisová - 2014.In: Journal of innovations and applied statistics. Roč. 4, č. 2 (2014), s. 21-27. - ISSN 1338-5224  
[STEJSKAL, Tomáš (50%) - TURISOVÁ, Renáta (50%)]

ADF024 [152915] **Process production management for selected product** / Renáta Turisová, Tomáš Stejskal - 2014.In: Journal of innovations and applied statistics. Roč. 4, č. 2 (2014), s. 62-67. - ISSN 1338-5224  
[TURISOVÁ, Renáta (50%) - STEJSKAL, Tomáš (50%)]

ADF025 [155044] **Stationarity versus correlation of signals** / Tomáš Stejskal - 2014.In: Transfer inovácií. Č. 30 (2014), s. 121-123. - ISSN 1337-7094  
[STEJSKAL, Tomáš (100%)]

ADF026 [162485] **Príčiny vzniku exponenciálneho rozdelenia porúch a možnosti využitia pre prax** / Tomáš Stejskal - 2015.In: Spravodaj ATD SR. Roč. 12, č. 1 (2015), s. 4-6. - ISSN 1337-8252  
[STEJSKAL, Tomáš (100%)]

ADF027 [175045] **Modeling of transient nonlinear phenomena using a modified logistic equation** / Tomáš Stejskal ... [et al.] - 2016.In: Acta Mechanica Slovaca. Roč. 20, č. 2 (2016), s. 62-69. - ISSN 1335-2393  
[STEJSKAL, Tomáš (40%) - SVETLÍK, Jozef (20%) - DEMEČ, Peter (20%) - ŠIDLOVSKÁ, Ľuboslava (20%)]

ADF028 [185809] **Konvolúcia ako prirodzený princíp náhodného rozdelenia porúch** / Tomáš Stejskal - 2017.In: Spravodaj ATD SR. Roč. 14, č. 1 (2017), s. 28-32. - ISSN 1337-8252  
[STEJSKAL, Tomáš (100%)]

ADF029 [197644] **Význam testovania náhodnosti nameraných hodnôt** / Tomáš Stejskal - 2018.In: Spravodaj ATD SR. Roč. 15, č. 2 (2018), s. 43-48 [print]. - ISSN 1337-8252  
[STEJSKAL, Tomáš (100%)]

ADF030 [209587] **Testovanie miery náhodnosti spojitého signálu** / Tomáš Stejskal - 2019.In: Spravodaj ATD SR. Roč. 16, č. 1 (2019), s. 19-24 [print]. - ISSN 1337-8252  
[STEJSKAL, Tomáš (100%)]

#### **ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS(4)**

ADM001 [162195] **Coupled pendulums—consequences of an experiment inconsistent with the theory** / Tomáš Stejskal - 2015.In: Acta Technica. Vol. 60, no. 2 (2015), p. 193-207. - ISSN 0001-7043  
[STEJSKAL, Tomáš (100%)]

ADM002 [186760] **Elimination of thermal drift in measuring the positioning accuracy of a three axis milling machine** / Tomáš Stejskal ... [et al.] - 2017.In: Advances in Science and Technology-Research Journal. Vol. 11, no. 4 (2017), p. 159-167. - ISSN 2299-8624  
[STEJSKAL, Tomáš (20%) - DOVICA, Miroslav (20%) - DEMEČ, Peter (20%) - SVETLÍK, Jozef (20%) - RAJŤUKOVÁ, Viktória (20%)]

ADM003 [190949] **Impact of the technological conditions of plane surface machining on a triangular milling cutter on the residual hysteresis of the movement axis of the machine** / Tomáš Stejskal ... [et al.] - 2017.In: Advances in Science and Technology Research Journal. Vol. 11, no. 3 (2017), p. 240-245. - ISSN 2299-8624  
[STEJSKAL, Tomáš (20%) - KRÁL, Ján ml. (5%) - RUDY, Vladimír (20%) - MELKO, Jaroslav (20%) - RJABUŠIN, Adrián (20%) - PAVLIKOVÁ, Ľudmila (15%)]

ADM004 [212758] **Experimental assessment of the static stiffness of machine parts and structures by changing the magnitude of the hysteresis as a function of loading** / Tomáš Stejskal, Miroslav Dovica, Jozef Svetlík, Peter Demeč - 2019.In: Open Engineering. - Berlín (Nemecko) : De Gruyter Roč. 9, č. 1 (2019), s. 655-659 [online]. - ISSN 2391-5439 (online)  
[STEJSKAL, Tomáš (25%) - DOVICA, Miroslav (25%) - SVETLÍK, Jozef (25%) - DEMEČ, Peter (25%)]

#### **ADN - Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS(1)**

ADN001 [175879] **Information contents of a signal at repeated positioning measurements of the coordinate measuring machine (CMM) by laser interferometer** / Tomáš Stejskal ... [et al.] - 2016.In: Measurement Science Review. Vol. 16, no. 5 (2016), p. 273-279. - ISSN 1335-8871  
[STEJSKAL, Tomáš (27%) - KELEMENOVÁ, Tatiana (27%) - DOVICA, Miroslav (20%) - DEMEČ, Peter (20%) - ŠTOFA, Miroslav (6%)]

#### **AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách(3)**

AEC001 [167461] **A special analysis of significant phenomena in diagnostic signal at compressors measurement** / Tomáš Stejskal ... [et al.] - 2016.In: Key Engineering Materials vol. 669 : Operation and Diagnostics of Machines and Production Systems Operational States 3. - Switzerland : TTP, 2016 P. 373-381. - ISSN 1013-9826  
[STEJSKAL, Tomáš (20%) - VALENČÍK, Štefan (20%) - KMEC, Ján (20%) - KUČERKA, Daniel (20%) - BIČEJOVÁ, Ľuba (20%)]

AEC002 [167464] **Manufacturing systems building and developing** / Štefan Valenčík ... [et al.] - 2016.In: Key Engineering Materials vol. 669 : Operation and Diagnostics of Machines and Production Systems Operational States 3. - Switzerland : TTP, 2016 P. 514-522. - ISBN 978-3-03835-629-5 - ISSN 1013-9826  
[VALENČÍK, Štefan (20%) - STEJSKAL, Tomáš (20%) - KMEC, Ján (20%) - BIČEJOVÁ, Ľuba (20%) - GOMBÁR, Miroslav (20%)]

AEC003 [185057] **Production Aspects affecting the final precision machining of advanced materials** / Tomáš Stejskal ... [et al.] - 2017.In: Key Engineering Materials : Manufacturing Technologies : Materials, Operation and Applications volume 756. - Switzerland : TTP, 2017 P. 155-161. - ISBN 978-3-0357-1196-7 - ISSN 1013-9826  
[STEJSKAL, Tomáš (50%) - ŠTOFA, Miroslav (10%) - SVETLÍK, Jozef (36%) - PITUK, Martin (1%) - ŽILINSKÝ, Adam (3%)]

#### **AED - Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách(1)**

AED001 [111627] **Intenzita porúch verzus hustota pravdepodobnosti porúch** / Tomáš Stejskal - 2011. - 1 elektronický optický disk (CD-ROM).In: Bezpečnosť - Kvalita - Spôľahlivosť : 5. medzinárodná vedecká konferencia : zborník. - Košice : TU, 2011 S. 293-296. - ISBN 978-80-553-0612-4  
[STEJSKAL, Tomáš (100%)]

#### **AEF - Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch, monografiách(1)**

AEF001 [0012952] **Application of MS Excel programs for optimise the dynamic properties of robot**



= Využitie programu MS Excel pri optimalizácii dynamických vlastností robota / Tomáš Stejskal ... [et al.]  
- 2000.In: COMTEP 2000 - Počítače v teórii a praxi. - Košice : TU-SJF, 2000 S. 257-260. - ISBN  
8070996315  
[STEJSKAL, Tomáš - SCHULZ, Štefan - ŠARO, Martin - MENZ, Peter - EMMER, Thomas]

#### **AFB - Publikované pozvané príspevky na domácich vedeckých konferenciách(2)**

AFB001 [62893] **Štúdia spoľahlivosti a miery automatizácie poľnohospodárskej techniky** = Study of reliability and automation size in agriculture techniques / Tomáš Stejskal, Dušan Tresa - 2007.In: Bezpečnosť - Kvalita - Spoľahlivosť. - Košice : TU, 2007 S. 254-258. - ISBN 9788080738280  
[STEJSKAL, Tomáš (50%) - TRESA, Dušan (50%)]

AFB002 [159415] **Spoľahlivosť v kontexte vývoja výrobných technológií** / Tomáš Stejskal - 2015.In: Bezpečnosť - Kvalita - Spoľahlivosť. - Košice : TU, 2015 S. 244-247. - ISBN 978-80-553-2044-1  
[STEJSKAL, Tomáš (100%)]

#### **AFC - Publikované príspevky na zahraničných vedeckých konferenciách(15)**

AFC001 [117556] **Nepriama metóda merania krútiaceho momentu využiteľná pre technickú diagnostiku obrábacích strojov** / T. Stejskal - 1996.In: Výrobní stroje, automatizace a robotizace ve strojírenství : sborník přednášek : sekce 1 : mezinárodní kongres : Praha, 25.-27.6.1996. - Praha : ČVUT, 1996 S. 276-278.  
[STEJSKAL, Tomáš (100%)]

AFC002 [117542] **Chaos a energetická bilancia** / T. Stejskal, T. Gallová, M. Gallo - 2001.In: DAAAM 2001 : proceedings of the 3rd DAAAM Workshop "Intelligent Manufacturing System" : 29. november 2001, Wien-Košice. - Vienna : DAAAM International, 2001 P. 63-64. - ISBN 3-901509-31-3  
[STEJSKAL, Tomáš (80%) - GALLOVÁ, T. (10%) - GALLO, M. (10%)]

AFC003 [117543] **Chaos a entropia** / Štefánia Gallová, Tomáš Stejskal - 2001.In: Intelligent Manufacturing Systems : Proceedings of the 3rd DAAAM Workshop : 29th November 2001, Wien - Kosice, Slovakia. - Vienna : DAAAM International, 2001 P. 25-26. - ISBN 3-901509-31-3  
[GALLOVÁ, Štefánia (50%) - STEJSKAL, Tomáš (50%)]

AFC004 [117560] **Modálna analýza ramena robota Adept za účelom aplikácie guľčkového kompozitu v jeho konštrukcii** / M. Šaro, T. Stejskal, Š. Schulz - 2001.In: DAAAM 2001 : proceedings of the 3rd International DAAAM workshop "Intelligent Manufacturing Systems" : 29. november 2001, Wien-Košice. - Vienna : DAAAM International, 2001 P. 65-66. - ISBN 3-901509-31-3  
[ŠARO, M. (25%) - STEJSKAL, Tomáš (50%) - SCHULZ, Štefan (25%)]

AFC005 [23905] **Informačno riadiace systémy automatizovaných pracovísk v KVTaR** / Vladimír Baláž ... [et al.] - 2003.In: Principia cybernetica '03. - Liberec : Technická univerzita v Liberci, 2003 P. 19-24. - ISBN 8070837330  
[BALÁŽ, Vladimír (16%) - TULEJA, Peter (16%) - DANESHJO, Naqibullah (16%) - SVETLÍK, Jozef (16%) - SUKOP, Marek (16%) - STEJSKAL, Tomáš (16%)]

AFC006 [40266] **Automatizácia sadenia rastlín** = Automation of the plants set / Tomáš Stejskal, Dušan Tresa - 2005.In: PRO-TECH-MA '05. - Rzeszów : Politechnika Rzeszowska, 2005 S. 87-88. - ISBN 8371993560  
[STEJSKAL, Tomáš (50%) - TRESA, Dušan (50%)]

AFC007 [41753] **Engineering desing and its application for automated planting machine** / V. Anna ... [et al.] - 2005.In: Annals of MTem for 2005 and proceedings of the 7th international conference Modern technologies in manufacturing. - Cluj-Napoca : Technical university of Cluj-Napoca, 2005 P. 23-26. - ISBN 9739087833

[ANNA, Vojtech (17%) - TRESA, Dušan (17%) - SMRČEK, Juraj (17%) - BORZAN, M. - STEJSKAL, Tomáš (16%) - CHOVANCOVÁ, Jana (16%)]

AFC008 [83020] **Psychologické aspekty údržby** / Tomáš Stejskal, Štefan Valenčík - 2009.In: Nové trendy v proaktivní údržbě : 4. mezinárodní vedecká konferencia : Praha, 23.-25.3.2009. - Praha : CMMS, 2009 P. 1-4.

[STEJSKAL, Tomáš (50%) - VALENČÍK, Štefan (50%)]

AFC009 [83023] **Špecifiká stavby a rozvoja diagnostického pracoviska** / Štefan Valenčík, Tomáš Stejskal - 2009.In: Nové trendy v proaktivní údržbě. - Praha : CMMS, 2009 P. 1-6.

[VALENČÍK, Štefan (50%) - STEJSKAL, Tomáš (50%)]

AFC010 [96755] **Podpora odbornosti v oblasti technickej diagnostiky vo výukovom procese** / Tomáš Stejskal - 2010.In: Perspective Directions and Ways of Realizing Innovative Technologies in the System of European Higher Education : international scientific herald : the collection of scientific articles containing the materials of the 19th International scientific - practical conference : ( December 8-11, 2009 ), Uzhhorod (Ukraine) - Vysoke Tatry (Slovakia) : book 1. - Uzhhorod : Ministry of Education and Science of Ukraine, 2010 P. 215-218.

[STEJSKAL, Tomáš (100%)]

AFC011 [191618] **The basic tactics of machinery behavior** / T. Stejskal, J. Svetlík, J. Dobránsky - 2018.In: Sovremennyye koncepciji razvitiya nauky. - Ufa : Omega Science, 2018 P. 9-11. - ISBN 978-5-907019-98-0 Spôsob prístupu: <http://os-russia.com/arh-conf>.

[STEJSKAL, Tomáš (34%) - SVETLÍK, Jozef (33%) - DOBRÁNSKY, Jozef (33%)]

AFC012 [193267] **Optimizing workspace for homogeneous assemblies of rotational motion modules** / Jozef Svetlík ... [et al.] - 2018.In: SACI 2018. - Timisoara : Politehnica University, 2018 P. 573-579. - ISBN 978-1-5386-4639-7 Spôsob prístupu: <http://conf.uni-obuda.hu/saci2018/>.

[SVETLÍK, Jozef (20%) - HOŠOVSKÝ, Alexander (20%) - TROJANOVÁ, Monika (20%) - DEMEČ, Peter (10%) - STEJSKAL, Tomáš (20%) - ŠTOFA, Miroslav (10%)]

AFC013 [194511] **Analysis of Mean Reversal Value of on Axis of Linear Guide Depending on the Load** / Jozef Dobránsky, Tomáš Stejskal, Jozef Svetlík - 2018.In: INES 2018. - Danvers : IEEE, 2018 P. 163-166. - ISBN 978-1-5386-1121-0

[DOBRÁNSKY, Jozef (20%) - STEJSKAL, Tomáš (50%) - SVETLÍK, Jozef (30%)]

AFC014 [196889] **Valuation of the normality of distribution in metrology using the fractal principle** / T. Stejskal ... [et al.] - 2018.In: World Congress of the International Measurement Federation. - Belfast (Veľká Británia) : IOP Publishing s. 1-4 [online]. Spôsob prístupu: <http://iopscience.iop.org/volume/1742-6596/1065>.

[STEJSKAL, Tomáš (50%) - DOVICA, Miroslav (25%) - ĎURIŠ, Stanislav (10%) - PALENČÁR, Rudolf (10%) - PALENČÁR, Jakub (5%)]

AFC015 [211148] **Direct measurement of stationary objects' dimensions with Michelson type incremental laser interferometer** / T. Stejskal ... [et al.] - 2019.In: Joint IMEKO TC1-TC7-TC13-TC18 Symposium. - Bristol (Veľká Británia) : IOP Publishing s. 1-7 [print, online]. Spôsob prístupu: <https://iopscience.iop.org/article/10.1088/1742-6596/1379/1/012065>.

[STEJSKAL, Tomáš (45%) - DOVICA, Miroslav (30%) - ĎURIŠ, Stanislav (15%) - ĎURIŠOVÁ, Zuzana (5%) - PALENČÁR, Jakub (5%)]

#### **AFD - Publikované príspevky na domácich vedeckých konferenciách(39)**

AFD001 [117559] **Ciele adaptívneho riadenia a technickej diagnostiky výrobných strojov** / Tomáš Stejskal - 1995.In: Zborník vedeckých prác z 1. vedeckej konferencie doktorandov : Košice, 14. jún 1995. - Košice : Sjf TU Košice, 1995 S. 62-64.

[STEJSKAL, Tomáš (100%)]

AFD002 [117554] **Posúdenie pracovnej presnosti strojov z hľadiska riadenia a konštrukcie** / Tomáš Stejskal, Imrich Homza, Martin Šaro - 1997.In: Nové trendy v strojárstve na prahu tretieho tisícročia : 2. sekcia: Výpočtové a experimentálne metódy pri stavbe strojov a zariadení : zborník vedeckých prác z medzinárodnej konferencie : Košice, 25. a 26. 9. 1997. - Košice : STROFFEK, 1997 S. 82-85. - ISBN 80-967636-8-7

[STEJSKAL, Tomáš (80%) - HOMZA, Imrich (10%) - ŠARO, Martin (10%)]

AFD003 [117558] **Vplyv kinematického budenia harmonickým oscilátorom na zmenu koeficienta trenia** / Tomáš Stejskal - 1997.In: Zborník vedeckých prác z 3. konferencie doktorandov : Košice, 17.6.1997. - Košice : Sjf TU, 1997 S. 67-69.

[STEJSKAL, Tomáš (100%)]

AFD004 [117549] **Monitorizácia radiálnych vibrácií vretena obrábacieho stroja** / Tomáš Stejskal, Ivana Čabrová - 1998.In: Nové trendy v prevádzke výrobných techník : 1. medzinárodná konferencia : 3. - 4. December 1998, Prešov. - Prešov : FVT TU, 1998 S. 244-248. - ISBN 80-7099-371-5

[STEJSKAL, Tomáš (75%) - ČABROVÁ, Ivana (25%)]

AFD005 [117552] **Measurement method of radial spindle stiffness when drilling on the drilling machine V20 A** / Tomáš Stejskal, Ján Drabant - 1998.In: RTO 98 : Rozvoj technológie obrábania : zborník 2. medzinárodnej konferencie : Košice, 1. a 2. Júl 1998. - Košice : TU, 1998 S. 78-79. - ISBN 80-7099-352-9

[STEJSKAL, Tomáš (80%) - DRABANT, Ján (20%)]

AFD006 [25031] **The research of robot adept ONE for use Hohlkugelkomposit in its construction** / Martin Šaro ... [et al.] - 1999.In: Technológia '99. 2. diel. - Bratislava : STU, 1999 S. 595-598. - ISBN 8022712558

[ŠARO, Martin - SCHULZ, Štefan - STEJSKAL, Tomáš - MENZ, Peter]

AFD007 [0012824] **Počítačom podporovaná dynamická analýza ramena robota adept one** = Dynamic analysis of arm of robot adeptone with computers support / Tomáš Stejskal ...[et al.] - 2000.In: 41. medzinárodná konferencia katedier častí a mechanizmov strojov. - Košice : DT ZSVTS, 2000 S. 313-314. - ISBN 8070994800

[STEJSKAL, Tomáš - ŠARO, Martin - SCHULZ, Štefan - MENZ, Peter]

AFD008 [0012861] **Perspektívy uplatnenia ľahkých kompozitov v konštrukcii priemyselných robotov** / Tomáš Stejskal ... [et al.] - 2000.In: Strojné inžinierstvo 2000. - Bratislava : STU, 2000 S. 22-25. - ISBN 8022714364

[STEJSKAL, Tomáš - SCHULZ, Štefan - ŠARO, Martin - MENZ, Peter]

AFD009 [117546] **Určovanie dynamických charakteristík robota predpísanými pracovnými pohybmi** / Tomáš Stejskal ... [et al.] - 2001.In: ROBTEP 2001 : Automatizácia / Robotika v teórii a praxi : 5. celoštátna konferencia s medzinárodnou účasťou : 14.12.2001, Prešov. - Prešov : Sjf TU, 2001 S. 143-146. - ISBN 80-7099-749-4

[STEJSKAL, Tomáš (50%) - ŠARO, Martin (20%) - SCHULZ, Štefan (20%) - MENZ, Peter (5%) - EMMER, Thomas (5%)]

AFD010 [18712] **Posudzovanie robota Adept z hľadiska jeho dynamickej tuhosti** = Consideration of the robot by dynamic stiffness wiepoint / Martin Šaro, Tomáš Stejskal, Štefan Schulz - 2002.In: ROBTEP 2002. - Košice : TU-Sjf, 2002 S. 587-590. - ISBN 8070998261

[ŠARO, Martin (70%) - STEJSKAL, Tomáš (20%) - SCHULZ, Štefan (10%)]

AFD011 [31574] **Dizajn robotických ramien** = Robotic arm design / Tomáš Stejskal, Ľuboslava Šidlovská - 2004.In: ROBTEP 2004 - Automatizácia / Robotika v teórii a praxi. - Košice : TU v Košiciach,

2004 S. 450-453. - ISBN 8080731349  
[STEJSKAL, Tomáš (50%) - ŠIDLOVSKÁ, Ľuboslava (50%)]

AFD012 [31601] **Frézovanie deleným rezom z pohľadu kmitavých procesov** = Milling operation with separated cutting in term of vibratory processes / Tomáš Stejskal - 2004.In: Acta Mechanica Slovaca. Roč. 8, č. 3-C (2004), s. 171-176. - ISSN 1335-2393  
[STEJSKAL, Tomáš (100%)]

AFD013 [40293] **Využitie prejavu technického stavu valivých uložení pri diagnostike robota** = Utilization of Technical Status Demonstration of Antifriction Bearing by Robot Diagnostic / Juraj Smrček, Peter Tuleja, Tomáš Stejskal - 2004.In: Acta Mechanica Slovaca. Roč. 8, č. 3-C (2004), s. 27-34. - ISSN 1335-2393  
[SMRČEK, Juraj (50%) - TULEJA, Peter (25%) - STEJSKAL, Tomáš (25%)]

AFD014 [40271] **Konštrukcia automatického sadzača rastlín a jeho bezpečnosť** = Design of automatic plating machine and its safety / Dušan Tresa, Tomáš Stejskal, Stanislaw Sosnowski - 2005.In: Bezpečnosť, kvalita, spoľahlivosť. - Košice : TU, 2005 5 s. - ISBN 8080732582  
[TRESA, Dušan - STEJSKAL, Tomáš - SOSNOWSKI, Stanislaw]

AFD015 [56441] **Vzťah systematických a náhodných odchýlok v riadení modulárnych systémov** = Relation of the systematic and random divergence in control of the modular systems / Tomáš Stejskal - 2006.In: Acta Mechanica Slovaca. Roč. 10, č. 2-A ROBTEP 2006 (2006), s. 493-496. - ISSN 1335-2393  
[STEJSKAL, Tomáš (100%)]

AFD016 [65031] **Meranie zmeny vibrácií vplyvom štrukturálnych zmien** / Tomáš Stejskal - 2007.In: DIS 2007. - [Košice : SĽF TU], 2007 7 s. - ISBN 9788080738723  
[STEJSKAL, Tomáš (100%)]

AFD017 [88116] **Stratégia mazania ložísk z hľadiska ich spoľahlivosti** / Tomáš Stejskal - 2009.In: Bezpečnosť - Kvalita - Spoľahlivosť : 4, medzinárodná vedecká konferencia : Košice, apríl 2009. - Košice : TU, 2009 S. 225-228. - ISBN 9788055301372  
[STEJSKAL, Tomáš (100%)]

AFD018 [91777] **Význam merania tuhosti objektov z hľadiska technickej diagnostiky** / Tomáš Stejskal, Jozef Svetlík - 2009. - 1 elektronický optický disk (CD-ROM).In: Nové trendy v prevádzke technických systémov '09 : 9. medzinárodná vedecká konferencia : Prešov, 5.-6.11.2009. - Prešov : FVT TU, 2009 S. 25-26. - ISBN 978-80-553-0311-6  
[STEJSKAL, Tomáš (50%) - SVETLÍK, Jozef (50%)]

AFD019 [97939] **Stacionarita signálu z hľadiska technickej diagnostiky** / Tomáš Stejskal - 2010.In: ROBTEP 2010 - Automatizácia / Robotika v teórii a praxi : 10. celoštátna konferencia s medzinárodnou účasťou : 7.-9.6.2010, Bardejov- Bardejovské kúpele, Slovensko. - Košice : TU, SĽF, 2010 S. 299-304. - ISBN 978-80-553-0427-4  
[STEJSKAL, Tomáš (100%)]

AFD020 [97950] **Stacionarita rezného procesu vŕtania** / Tomáš Stejskal - 2010.In: ROBTEP 2010 - Automatizácia / Robotika v teórii a praxi : 10. celoštátna konferencia s medzinárodnou účasťou : 7.-9.6.2010, Bardejov- Bardejovské kúpele, Slovensko. - Košice : TU, SĽF, 2010 S. 305-306. - ISBN 978-80-553-0427-4  
[STEJSKAL, Tomáš (100%)]

AFD021 [118026] **Návrh efektívneho ekonomického ukazovateľa v údržbe** / Tomáš Stejskal - 2011.In: ROBTEP 2011 : Automatizácia / Robotika v teórii a praxi : 11. celoštátna konferencia s medzinárodnou účasťou : 16.12.2011, Košice. - Košice : TU, SĽF, 2011 S. 201-204. - ISBN 978-80-553-0846-3

[STEJSKAL, Tomáš (100%)]

AFD022 [118028] **Určenie pohotovosti a jej hodnovernosť v rámci údržby strojov** / Tomáš Stejskal - 2011.In: ROBTEP 2011 : Automatizácia / Robotika v teórii a praxi : zborník príspevkov z 11. medzinárodnej konferencie : 16.12.2011, Košice. - Košice : TU, Sjf, 2011 S. 205-208. - ISBN 978-80-553-0846-3

[STEJSKAL, Tomáš (100%)]

AFD023 [123453] **Chaotické javy v diagnostike strojov** / Tomáš Stejskal - 2012.In: Národné fórum údržby 2012 : 12. ročník medzinárodnej konferencie : zborník prednášok : Vysoké Tatry, Štrbské Pleso, 29.5. - 30.5.2012. - Žilina : ŽU, 2012 S. 251-256. - ISBN 978-80-554-0531-5

[STEJSKAL, Tomáš (100%)]

AFD024 [132638] **Mechanism of randomness in vibration signals of machinery** / Tomáš Stejskal, Juraj Kováč, Štefan Valenčík - 2013.In: Applied Mechanics and Materials : ROBTEP 2012 : 11th International Conference on Industrial, Service and Humanoid Robotics, Štrbské Pleso, Slovakia, 14-16 November 2012. Vol. 282 (2013), p. 257-262. - ISBN 978-303785603-1 - ISSN 1660-9336 Spôsob prístupu: <http://www.scientific.net/AMM.282.257>.

[STEJSKAL, Tomáš (34%) - KOVÁČ, Juraj (33%) - VALENČÍK, Štefan (33%)]

AFD025 [132676] **Virtual reality in the maintenance of machinery and equipment** / Juraj Kováč, Tomáš Stejskal, Štefan Valenčík - 2013.In: Applied Mechanics and Materials : ROBTEP 2012 : 11th International Conference on Industrial, Service and Humanoid Robotics, Štrbské Pleso, Slovakia, 14-16 November 2012. Vol. 282 (2013), p. 269-273. - ISBN 978-303785603-1 - ISSN 1660-9336 Spôsob prístupu: <http://scientific.net/AMM.282.269>.

[KOVÁČ, Juraj (34%) - STEJSKAL, Tomáš (33%) - VALENČÍK, Štefan (33%)]

AFD026 [142781] **Verifikácia udávaných výkonových parametrov domáceho spotrebiča** / Jozef Svetlík, Tomáš Stejskal - 2013.In: Trendy a inovatívne prístupy v podnikových procesoch : 16. medzinárodná vedecká konferencia : 7. - 8.november 2013, Košice. - Košice : TU, 2013 S. 1-5. - ISBN 978-80-553-1548-5

[SVETLÍK, Jozef (50%) - STEJSKAL, Tomáš (50%)]

AFD027 [142836] **Failures fluctuations based on mean time between failures and reporting period** / Tomáš Stejskal - 2013.In: Trendy a inovatívne prístupy v podnikových procesoch : 16. medzinárodná vedecká konferencia : 7. - 8.november 2013, Košice. - Košice : TU, 2013 S. 1-4. - ISBN 978-80-553-1548-5

[STEJSKAL, Tomáš (100%)]

AFD028 [143994] **Vibrácie vyhodnotené intervalovou metódou** / Tomáš Stejskal - 2013.In: DIS 2013 : Teória a aplikácia metód technickej diagnostiky : 16. ročník medzinárodnej vedeckej konferencie : 8. - 9. október 2013, Košice. - Košice : TU, 2013 S. 1-6. - ISBN 978-80-553-1482-2

[STEJSKAL, Tomáš (100%)]

AFD029 [152321] **2D-Shape Analysis using Shape Invariants** / Tomáš Stejskal - 2014.In: Applied Mechanics and Materials : Industrial and Service Robotics : 13th International Conference Robtep 2014 : May 15th - 17th 2014, Strbske Pleso, High Tatras, Slovakia. Vol. 613 (2014), p. 452-457. - ISSN 1660-9336 Spôsob prístupu: <http://www.scientific.net/AMM.613.452>.

[STEJSKAL, Tomáš (100%)]

AFD030 [170244] **Structure Modelling and they Effect on Creativity of Students** / Tomáš Stejskal - 2016.In: Ukraine - EU. Modern Technology, Business and Law. - Chernihiv : Chernihiv National University of Technology, 2016 P. 328-330. - ISBN 978-966-7496-71-5

[STEJSKAL, Tomáš (100%)]

AFD031 [177799] **Spôľahlivosť merania tuhosti vretena laserinterferometrom a odchýlkomerom** / Miroslav Štofa, Tomáš Stejskal - 2017.In: Novus Scientia 2017. - Košice : TU, 2017 S. 196-199. - ISBN 978-80-553-3080-8  
[ŠTOFA, Miroslav (50%) - STEJSKAL, Tomáš (50%)]

AFD032 [189892] **Aplikácia technickej tvorivosti pri riešení projektov verzus obchodná filozofia firmy** / Tomáš Stejskal, Ľuboslava Šidlovská - 2017.In: Trendy a inovatívne prístupy v podnikových procesoch. - Košice : TU, 2017 S. 1-5. - ISBN 978-80-553-2856-0  
[STEJSKAL, Tomáš (50%) - ŠIDLOVSKÁ, Ľuboslava (50%)]

AFD033 [194936] **Dizajn meracieho systému na báze inverznej kinematiky merania** / Lukáš Kačmár, Tomáš Stejskal, Miroslav Dovica - 2018.In: Novus Scientia 2018. - Košice : TU, 2018 S. 71-74. - ISBN 978-80-553-2907-9  
[KAČMÁR, Lukáš (34%) - STEJSKAL, Tomáš (33%) - DOVICA, Miroslav (33%)]

AFD034 [198994] **Miera necitlivosti vôle vo vedení v závislosti od spôsobu zaťaženia** / Tomáš Stejskal, Jozef Svetlík - 2018.In: SEKEL 2018 : Medzinárodná vedecká konferencia učiteľov elektrotechniky. - Košice (Slovensko) : Technická univerzita v Košiciach s. 9-11 [CD-ROM]. - ISBN 978-80-553-2740-2  
[STEJSKAL, Tomáš (60%) - SVETLÍK, Jozef (40%)]

AFD035 [199004] **Návrh a realizácia poloautomatického dávkovacieho zariadenia pre agresívnu tekutinu** / Jozef Svetlík, Rudolf Jánoš, Tomáš Stejskal - 2018.In: SEKEL 2018 : Medzinárodná vedecká konferencia učiteľov elektrotechniky. - Košice (Slovensko) : Technická univerzita v Košiciach s. 12-15 [CD-ROM]. - ISBN 978-80-553-2740-2  
[SVETLÍK, Jozef (34%) - JÁNOŠ, Rudolf (33%) - STEJSKAL, Tomáš (33%)]

AFD036 [202220] **Vplyv uhla naklopenia triangulačného laserového snímača na kalibračnú krivku** / Lukáš Hrivniak, Jozef Svetlík, Tomáš Stejskal - 2019.In: Novus Scientia 2019 : zborník príspevkov z XVI. medzinárodnej vedeckej konferencie doktorandov strojnícckých fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 144-146 [CD-ROM]. - ISBN 978-80-553-3249-9  
[HRIVNIAK, Lukáš (40%) - SVETLÍK, Jozef (30%) - STEJSKAL, Tomáš (30%)]

AFD037 [202512] **Kalibračná krivka triangulačného laserového snímača** / Lukáš Hrivniak, Jozef Svetlík, Tomáš Stejskal - 2019.In: ARTEP 2019 Automatizácia a riadenie v teórii a praxi 2019 : 13. ročník konferencie odborníkov z univerzít, vysokých škôl a praxe. - Košice (Slovensko) : Technická univerzita v Košiciach s. 1-7 [CD-ROM]. - ISBN 978-80-553-3250-5  
[HRIVNIAK, Lukáš (34%) - SVETLÍK, Jozef (33%) - STEJSKAL, Tomáš (33%)]

AFD038 [210702] **Dimensions in CAD file for use in 3D printed** / Michal Šašala ... [et al.] - 2019.In: Transfer 2019 : 20th international scientific conference. - Trenčín (Slovensko) : Trenčianska univerzita Alexandra Dubčeka v Trenčíne s. 222-227 [CD-ROM]. - ISBN 978-80-8075-889-9  
[ŠAŠALA, Michal (20%) - HRIVNIAK, Lukáš (20%) - SVETLÍK, Jozef (20%) - POVAŽAN, Michal (20%) - STEJSKAL, Tomáš (20%)]

AFD039 [210703] **The effect of the tilt angle of the triangulation laser sensor to the calibration curve** / Lukáš Hrivniak ... [et al.] - 2019.In: Transfer 2019 : 20th international scientific conference. - Trenčín (Slovensko) : Trenčianska univerzita Alexandra Dubčeka v Trenčíne s. 65-70 [CD-ROM]. - ISBN 978-80-8075-889-9  
[HRIVNIAK, Lukáš (20%) - ŠAŠALA, Michal (20%) - POVAŽAN, Michal (20%) - SVETLÍK, Jozef (20%) - STEJSKAL, Tomáš (20%)]

**AFG - Abstrakty príspevkov zo zahraničných konferencií(1)**

AFG001 [206477] **Direct measurement of stationary objects dimensions with Michelson type incremental laser interferometer** / Tomáš Stejskal ... [et al.] - 2019.In: IMEKO 2019 : Joint IMEKO TC1-TC7-TC13-TC18 Symposium 2019. - Petrohrad (Ruská federácia) : Rossijskoje chimičeskoje občestvo im. D.I. Mendelejeva s. 66-67 [online]. - ISBN 978-5-85875-573-9 [STEJSKAL, Tomáš (45%) - DOVICA, Miroslav (30%) - ĎURIŠ, Stanislav (15%) - ĎURIŠOVÁ, Zuzana (5%) - PALENČÁR, Jakub (5%)]

#### **AGJ - Autorské osvedčenia, patenty, objavy(2)**

AGJ001 [176823] **Prenosné meracie zariadenie tuhosti strojov** patentový spis 288619/ Tomáš Stejskal ... [et al.] - Banská Bystrica : ÚPV SR - 2018. - 6 s.. Spôsob prístupu: <https://wbr.indprop.gov.sk/WebRegistre/Patent/Detail/104-2016>. [STEJSKAL, Tomáš (35%) - SVETLÍK, Jozef (35%) - DEMEČ, Peter (15%) - DOVICA, Miroslav (15%)]

AGJ002 [211136] **Merací prípravok na meranie dĺžkových rozmerov nehybných objektov pomocou laserového interferometra** zverejnená prihláška úžitkového vzoru č. 50042-2019/ Tomáš Stejskal ... [et al.] - Banská Bystrica : ÚPV SR - 2019. - 5 s.. Spôsob prístupu: <https://wbr.indprop.gov.sk/WebRegistre/UzitkovyVzor/Detail/50042-2019>. [STEJSKAL, Tomáš (35%) - SVETLÍK, Jozef (25%) - DOVICA, Miroslav (20%) - DEMEČ, Peter (20%)]

#### **BCI - Skriptá a učebné texty(2)**

BCI001 [176213] **Teória stavby výrobných strojov 1** návody na cvičenia/ Tomáš Stejskal - 1. vyd. - Košice : SjF TU - 2016. - 100 s.. - ISBN 978-80-553-3020-4. [STEJSKAL, Tomáš (100%)]

BCI002 [203809] **Experimentálne metódy v odbore výrobná technika** Návody na cvičenia/ Tomáš Stejskal, Dominika Palaščáková - 1. vyd. - Košice : Technická univerzita v Košiciach - 2018. - 115 s. [print]. - ISBN 978-80-553-3207-9. [STEJSKAL, Tomáš (10%) - PALAŠČÁKOVÁ, Dominika (90%)]

#### **BDE - Odborné práce v zahraničných nekarentovaných časopisoch(1)**

BDE001 [40335] **Analýza základných pojmov teórie riadenia** / Tomáš Stejskal - 2002.In: Automatizace. Roč. 45, č. 4 (2002), s. 264-265. - ISSN 0005-125X [STEJSKAL, Tomáš (100%)]

#### **BDF - Odborné práce v domácich nekarentovaných časopisoch(2)**

BDF001 [85425] **Lahké častice - praktické možnosti manipulácie a automatizácie** / Dušan Tresa, Tomáš Stejskal - 2009.In: Strojárstvo. Č. 5 (2009), s. 52/1-52/2. - ISSN 1335-2938 [TRESA, Dušan (50%) - STEJSKAL, Tomáš (50%)]

BDF002 [116247] **Metodika výpočtu diagnostických intervalov** / Tomáš Stejskal - 2011.In: Spravodaj ATD SR. Č. 1,2 (2011), s. 34-36. - ISSN 1337-8252 [STEJSKAL, Tomáš (100%)]

#### **BEE - Odborné práce v zahraničných nerenzovaných zborníkoch (konferenčných aj nekonferenčných)(1)**

BEE001 [197345] **Application of Monte Carlo method in an inverse measuring system** / Lukáš Kačmár ... [et al.] - 2018.In: Metrologia w technikach wytwarzania = Metrology in manufacturing engineering. - Gliwice (Poľsko) : Gliwice s. 163-168 [print]. [KAČMÁR, Lukáš (5%) - DOVICA, Miroslav (20%) - STEJSKAL, Tomáš (35%) - KELEMENOVÁ, Tatiana (20%) - JAKUBKOVIČ, Eduard (20%)]

**BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných)(1)**

BEF001 [81093] **Funkcia návrhu pri zabezpečení spoľahlivosti strojov a zariadení** / Tomáš Stejskal - 2008.In: Trendy v systémoch riadenia podnikov : 11. medzinárodná vedecká konferencia : Stará Lesná, 9.-11.12.2008. - Košice : TU, 2008 S. 497-501. - ISBN 9788055301150 [STEJSKAL, Tomáš (100%)]

**DAI - Dizertačné a habilitačné práce(1)**

DAI001 [0011656] **Príspevok k problematike technickej diagnostiky poruchových stavov výrobných strojov** : doktorandská dizertačná práca / Tomáš Stejskal ; Školiteľ: Prof. Ing. Jozef Lachváč, CSc - Košice : TU, - 1998. - 78 s., 53 obr., 1 tab., [3] s. príl. za text.. [STEJSKAL, Tomáš]



**Record 1 of 12****Title:** Mechanism of randomness in vibration signals of machinery**Author(s):** Stejskal, T (Stejskal, Tomas); Kovac, J (Kovac, Juraj); Valencik, S (Valencik, Stefan)**Edited by:** Pachnikova L; Hanjuk M**Source:** ROBOTICS IN THEORY AND PRACTICE **Book Series:** Applied Mechanics and Materials **Volume:** 282 **Pages:** 257-262 **DOI:** 10.4028/www.scientific.net/AMM.282.257 **Published:** 2013**Abstract:** The paper deals with a special analysis of the vibration signal, which may reveal the chaotic behavior of the machine. The most likely effect of randomness is an exponential distribution. In case of the time interval divisions between peaks signal from vibrating machinery process has not a unique character of exponential distribution.**Accession Number:** WOS:000320200300037**Conference Title:** 11th International Conference on Industrial, Service and Humanoid Robotics (ROBTEP 2012)**Conference Date:** NOV 14-16, 2012**Conference Location:** Strbske Pleso, SLOVAKIA**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
stejskal, tomas	AAB-3866-2020	
Kovac, Juraj	AAA-5043-2020	

**ISSN:** 1660-9336**ISBN:** 978-3-03785-603-1**Record 2 of 12****Title:** Information Contents of a Signal at Repeated Positioning Measurements of the Coordinate Measuring Machine (CMM) by Laser Interferometer**Author(s):** Stejskal, T (Stejskal, Tomas); Kelemenova, T (Kelemenova, Tatiana); Dovica, M (Dovica, Miroslav); Demec, P (Demec, Peter); Stofa, M (Stofa, Miroslav)**Source:** MEASUREMENT SCIENCE REVIEW **Volume:** 16 **Issue:** 5 **Pages:** 273-279 **DOI:** 10.1515/msr-2016-0034 **Published:** OCT 2016**Abstract:** The input of this paper lies in displaying possibilities how to determine the condition of a coordinate measuring machine (CMM) based on a large number of repeated measurements. The number of repeated measurements exceeds common requirements for determining positioning accuracy. The total offset in the accuracy of spatial positioning consists of partial inaccuracies of individual axes. 6 basic errors may be defined at each axis. In a triaxial set, that translates into 18 errors, to which an offset from the perpendicularity between the axial pairs must be added. Therefore, the combined number of errors in a single position is 21. These errors are systemic and stem from the machine's geometry. In addition, there are accidental errors to account for as well. Accidental errors can be attributed to vibrations, mass inertness, passive resistance, and in part to fluctuations in temperature. A peculiar set of systemic errors are time-varying errors. The nature of those errors may be reversible, for instance if they result from influence of temperature or elastic deformation. They can be also irreversible, for example as a result of wear and tear or line clogging, due to loosened connection or permanent deformation of a part post collision. A demonstration of thermal equalizing of the machine's parts may also be observed in case of failure to adhere to a sufficient time interval from the moment the air-conditioning is turned on. Repeated measurements done on a selected axis with linear interferometer can provide complex information on the CMM condition and also on the machine's interaction with the given technical environment.**Accession Number:** WOS:000387145900006**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Dovica, Miroslav	AAD-6363-2019	
Kelemenova, Tatiana	AAH-7309-2019	0000-0002-9201-7517
Demec, Peter	AAA-7233-2020	
stejskal, tomas	AAB-3866-2020	

**ISSN:** 1335-8871**Record 3 of 12****Title:** Measurement of Static Stiffness after Motion on a Three-Axis CNC Milling Table**Author(s):** Stejskal, T (Stejskal, Tomas); Svetlik, J (Svetlik, Jozef); Dovica, M (Dovica, Miroslav); Demec, P (Demec, Peter); Kral, J (Kral, Jan)**Source:** APPLIED SCIENCES-BASEL **Volume:** 8 **Issue:** 1 **Article Number:** 15 **DOI:** 10.3390/app8010015 **Published:** JAN 2018**Abstract:** This paper deals with a modified methodology for measuring the static stiffness of the machine tool. Inspiration to modify the commonly used expanded method of static stiffness measurement resulted from considerably different experimentally measured static stiffness values in the simulated process of load application under laboratory conditions compared to the standard method. An important takeaway from the measurements is that the measured static stiffness of the table depends greatly on the previous work performed thereon and on the method of the load application onto the table. This modified view of the static stiffness of the machine can have an impact on the increased emphasis on eliminating the phenomena related thereto. It is applicable in engineering practice, in particular in the field of machine tool design, where it will ensure higher machining precision under comparable conditions. In the experiments performed, deformations and displacements were measured with a laser interferometer.**Accession Number:** WOS:000424388800015**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
stejskal, tomas	AAB-3866-2020	
Demec, Peter	AAA-7233-2020	
Svetlik, Jozef	J-9187-2016	0000-0002-7306-852X
Kral, Jan	AAA-8210-2020	
Dovica, Miroslav	AAD-6363-2019	

**ISSN:** 2076-3417**Record 4 of 12**

**Title:** Specific principles of work area stiffness measurement applied to a modern three-axis milling machine

**Author(s):** Stejskal, T (Stejskal, Tomas); Melko, J (Melko, Jaroslav); Rjabusin, A (Rjabusin, Adrian); Fedorko, G (Fedorko, Gabriel); Hatala, M (Hatala, Michal); Molnar, V (Molnar, Vieroslav)

**Source:** INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY **Volume:** 102 **Issue:** 5-8 **Special Issue:** SI **Pages:** 2541-2554 **DOI:** 10.1007/s00170-019-03393-y **Published:** JUN 2019

**Abstract:** The paper discusses continuous measurement of the machine working space stiffness. In comparison with the conventional stiffness measurement, this is a specific measurement because the influence of the load velocity on the static output characteristic is also shown. This effect is undesirable in terms of detecting the real stiffness of the machine, but at the same time, it is also a diagnostic indicator as it is of now an unexplored parameter of static stiffness. For example, if the load speed is exceeded by deformation of  $5\text{ms}^{-1}$ , the stiffness of the machine increases considerably. The stiffness changes from 43 to  $84\text{Nm}^{-1}$ , i.e., it approximately grows to double. In order to eliminate the misrepresentation of the course of stiffness, the load speed was reduced and special evaluation software was applied. The measurement methodology is highly effective in terms of measurement time, and it is suitable for the development of a portable facility measuring machine stiffness.

**Accession Number:** WOS:000469002200111

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Molnar, Vieroslav	J-4278-2012	0000-0003-4182-4033
Melko, Jaroslav	AAB-3017-2020	
Fedorko, Gabriel	B-7337-2011	0000-0002-5187-5283
stejskal, tomas	AAB-3866-2020	
Hatala, Michal	M-7944-2015	

**ISSN:** 0268-3768

**eISSN:** 1433-3015

---

#### Record 5 of 12

**Title:** 2D-Shape Analysis using Shape Invariants

**Author(s):** Stejskal, T (Stejskal, Tomas)

**Edited by:** Hajduk M; Koukolova L

**Source:** INDUSTRIAL AND SERVICE ROBOTICS **Book Series:** Applied Mechanics and Materials **Volume:** 613 **Pages:** 452-457 **DOI:** 10.4028/www.scientific.net/AMM.613.452 **Published:** 2014

**Abstract:** High efficiency detection of two-dimensional objects is achieved by an appropriate choice of object invariants. The aim is to show an example of the construction of an algorithm for rapid identification also for highly complex objects. The program structure works in a similar way as animal systems in nature. Differentiating runs from whole to details. They are used to shape invariants. The program algorithm is specifically used a surfaces invariant, which represents a whole. Then was used a boundary length invariant around the object. Finally, the chord distribution code was used, which represent a detail of object recognition. The actual computational algorithms are not software-intensive and easy to debug. System uses the redundancy of uncertain information about the shape. In principle, chosen a certain balance between the confidence level of recognition and repetition of shape recognition by various methods.

**Accession Number:** WOS:000348292400063

**Conference Title:** 13th International Conference on Industrial, Service and Humanoid Robotics (ROBTEP)

**Conference Date:** MAY 15-17, 2014

**Conference Location:** SLOVAKIA

**Conference Sponsors:** Europsky Fond Regionalneho Rozvoja, Agentura Ministerstva Skolstva, Vedy, Vyskumu Sportu SR Pre Strukturálne Fondy EU, Operacny Program Vyskum Vyroj

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
stejskal, tomas	AAB-3866-2020	

**ISSN:** 1660-9336

**ISBN:** 978-3-03835-202-0

---

#### Record 6 of 12

**Title:** Virtual reality in the maintenance of machinery and equipment

**Author(s):** Kovac, J (Kovac, Juraj); Stejskal, T (Stejskal, Tomas); Valencik, S (Valencik, Stefan)

**Edited by:** Pachnikova L; Hanjuk M

**Source:** ROBOTICS IN THEORY AND PRACTICE **Book Series:** Applied Mechanics and Materials **Volume:** 282 **Pages:** 269-273 **DOI:** 10.4028/www.scientific.net/AMM.1000.269 **Published:** 2013

**Abstract:** The paper deals with the possibilities of virtual reality applications in maintenance and servicing of machinery and technical equipment. It presents the results of experimental testing of new methods and techniques in the laboratory, in the process of implementation of maintenance operations in a virtual environment. It characterizes the hardware and software tools used in laboratory experiments.

**Accession Number:** WOS:000320200300039

**Conference Title:** 11th International Conference on Industrial, Service and Humanoid Robotics (ROBTEP 2012)

**Conference Date:** NOV 14-16, 2012

**Conference Location:** Strbske Pleso, SLOVAKIA

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Kovac, Juraj	AAA-5043-2020	
stejskal, tomas	AAB-3866-2020	

**ISSN:** 1660-9336

**ISBN:** 978-3-03785-603-1

---

#### Record 7 of 12

**Title:** Experimental assessment of the static stiffness of machine parts and structures by changing the magnitude of the hysteresis as a function of loading

**Author(s):** Stejskal, T (Stejskal, Tomas); Dovica, M (Dovica, Miroslav); Svetlik, J (Svetlik, Jozef); Peter, (Demec, Peter)

Source: OPEN ENGINEERING Volume: 9 Issue: 1 Pages: 655-659 DOI: 10.1515/eng-2019-0078 Published: DEC 24 2019

**Abstract:** Static stiffness is determined by one-sided loading and unloading of machine parts relative to the selected base. For each structure, there will be some loss of potential energy due to the dissipative forces that occur during the loading inside the structure. This loss is manifested in hysteresis in the stiffness diagram. A new approach to the assessment of static stiffness consists in gradual, bilateral loading and unloading of the structure through the effect of static forces of different magnitude. In this process, the stiffness hysteresis varies, depending on the intrinsic nature of the dissipative forces, a specific property suitable for assessing the condition of machines.

**Accession Number:** WOS:000505161600001

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Dovica, Miroslav	AAD-6363-2019	

ISSN: 2391-5439

#### Record 8 of 12

**Title:** Measurement of Maximum Deviation from Roundness Based on the Inverse Kinematics Principle

**Author(s):** Stejskal, T (Stejskal, Tomas); Dovica, M (Dovica, Miroslav); Kelemenova, T (Kelemenova, Tatiana); Polascakova, D (Polascakova, Dominika); Jakubkovic, E (Jakubkovic, Eduard); Povazan, M (Povazan, Michal); Ondocko, S (Ondocko, Stefan)

**Source:** MEASUREMENT SCIENCE REVIEW Volume: 19 Issue: 6 Pages: 271-278 DOI: 10.2478/msr-2019-0035 Published: DEC 2019

**Abstract:** The article deals with a special method of measuring the maximum deviation of objects from roundness based on the inverse kinematics principle. The inverse measurement mechanism is based on the immobility of the measuring probes and the object performing all the motions required to measure a dimension. The advantage of this principle is minimization of the temperature change, while the adverse effect in the measurement system is greatly reduced at the same time. The measurement methodology requires a special software evaluation of the data measured. The aim of the given measurement methodology was to establish the maximum roundness deviation that corresponds to the Least Squares Circle (LSC) method. An experiment with three measuring probes was conducted to verify the methodology.

**Accession Number:** WOS:000498869200005

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Dovica, Miroslav	AAD-6363-2019	
Ondocko, Stefan	AAB-4007-2020	
Kelemenova, Tatiana	AAH-7309-2019	0000-0002-9201-7517
stejskal, tomas	AAB-3866-2020	

ISSN: 1335-8871

#### Record 9 of 12

**Title:** Prospective increase in the heat pump's efficiency through arrangement in a three-temperature system

**Author(s):** Stejskal, T (Stejskal, Tomas); Svetlik, J (Svetlik, Jozef); Demec, P (Demec, Peter); Zilinsky, A (Zilinsky, Adam); Kovac, J (Kovac, Juraj)

**Source:** ADVANCES IN MECHANICAL ENGINEERING Volume: 11 Issue: 10 Article Number: 1687814019880989 DOI: 10.1177/1687814019880989 Published: OCT 2019

**Abstract:** Analysis of three-temperature heating system has revealed the apparent advantages and disadvantages that the combination of thermodynamic systems has in future development with respect to environmental and economic issues. Three-temperature heating systems consist of a heat engine and a heat pump, thus enabling maximum use of the primary thermal source for heating buildings. It seems that the combination of a Stirling engine, or a similar heat drive, with a heat pump is suitable. In order to analyse the effectiveness of such a system, a comprehensive calculation procedure is used as follows: its basis lies in accounting for all types of energy and their relationship to the original natural resource. The present study aims to point out that the combination of a Stirling engine and a heat pump is a useful solution due to the fact that it has the most favourable resultant economic impact in comparison to the use of a diesel, four-stroke gas or the most commonly used electric drive.

**Accession Number:** WOS:000492901100001

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Demec, Peter	AAA-7233-2020	
Kovac, Juraj	AAA-5043-2020	
stejskal, tomas	AAB-3866-2020	
Svetlik, Jozef	J-9187-2016	0000-0002-7306-852X

ISSN: 1687-8132

eISSN: 1687-8140

#### Record 10 of 12

**Title:** Optimizing Workspace for Homogeneous Assemblies of Rotational Motion Modules

**Author(s):** Svetlik, J (Svetlik, Jozef); Hosovsky, A (Hosovsky, Alexander); Trojanova, M (Trojanova, Monika); Demec, P (Demec, Peter); Stejskal, T (Stejskal, Tomas); Stofa, M (Stofa, Miroslav)

**Book Group Author(s):** IEEE

**Source:** 2018 IEEE 12TH INTERNATIONAL SYMPOSIUM ON APPLIED COMPUTATIONAL INTELLIGENCE AND INFORMATICS (SACI) Pages: 573-579 Published: 2018

**Abstract:** The workspace of serial kinematic structures is a basic feature determining their usability and application versatility. It is one of the main parameters determining technical viability and practical applicability of such structures. For this reason, it is necessary to pay close attention to its shape, size and reach of the end effector. There are a number of options in the construction of modular systems, and it is these options, that our paper examines. Through simulation, the authors analyze impacts of structural parameters on the resulting workspace of a homogeneous, modular, serial kinematic structure with 5DOF (Degrees of Freedom).

**Accession Number:** WOS:000448144200099

**Conference Title:** 12th IEEE International Symposium on Applied Computational Intelligence and Informatics (SACI)

**Conference Date:** MAY 17-19, 2018

**Conference Location:** Timisoara, ROMANIA

Conference Sponsors: IEEE

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Hosovsky, Alexander	K-4133-2014	0000-0002-8390-7163
stejskal, tomas	AAB-3866-2020	
Svetlik, Jozef	J-9187-2016	0000-0002-7306-852X
Demec, Peter	AAA-7233-2020	
Trojanova, Monika	AAB-3736-2020	

ISBN: 978-1-5386-4640-3

#### Record 11 of 12

**Title:** ELIMINATION OF THERMAL DRIFT IN MEASURING THE POSITIONING ACCURACY OF A THREE AXIS MILLING MACHINE

**Author(s):** Stejskal, T (Stejskal, Tomas); Dovica, M (Dovica, Miroslav); Demec, P (Demec, Peter); Svetlik, J (Svetlik, Jozef); Rajtukova, V (Rajtukova, Viktoria)

**Source:** ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL **Volume:** 11 **Issue:** 4 **Pages:** 159-167 **DOI:** 10.12913/22998624/78669 **Published:** DEC 2017

**Abstract:** The aim of this paper is to draw attention to more reliable verification method of positioning accuracy. The improvement lies in mathematical elimination of thermal impact during the measurement process. This thermal impact, always present during the motion of movable parts, is of a special systemic character. It increases the indefiniteness of measurement of the classic measurement method. This measurement uncertainty can be reduced by implementing the procedure introduced in this paper. The reduction can be achieved by separating the temperature impact from other sources of inaccuracy. Such separation is a very new solution. The methodology relies on mathematical processing and does not depend on the manner of accuracy measurement. The evaluation method also yields diagnostic information on the machine's condition. The experiments were performed with the use of laser interferometer.

**Accession Number:** WOS:000423970000019

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Demec, Peter	AAA-7233-2020	
Rajtukova, Viktoria	AAD-5157-2019	0000-0002-7180-2874
Svetlik, Jozef	J-9187-2016	0000-0002-7306-852X
stejskal, tomas	AAB-3866-2020	
Dovica, Miroslav	AAD-6363-2019	

ISSN: 2299-8624

#### Record 12 of 12

**Title:** IMPACT OF THE TECHNOLOGICAL CONDITIONS OF PLANE SURFACE MACHINING ON A TRIANGULAR MILLING CUTTER ON THE RESIDUAL HYSTERESIS OF THE MOVEMENT AXIS OF THE MACHINE

**Author(s):** Stejskal, T (Stejskal, Tomas); Kral, J (Kral, Jan); Rudy, V (Rudy, Vladimir); Melko, J (Melko, Jaroslav); Rjabusin, A (Rjabusin, Adrian); Pavlikova, L (Pavlikova, L'udmila)

**Source:** ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL **Volume:** 11 **Issue:** 3 **Pages:** 240-245 **DOI:** 10.12913/22998624/76710 **Published:** SEP 2017

**Abstract:** The paper deals with the possibilities of measuring the residual displacement or hysteresis on the lateral direction of the movement forces caused by the cutting forces of the machining. A special adjustment of laser interferometry assemblies was used for measurement. The measurement results indicate that the positioning accuracy in addition to the cutting forces also influences the position of the displaced moving substances and the temperature. The complex effect of these parameters is greatly dependent on the design of the machine.

**Accession Number:** WOS:000416224600029

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Kral, Jan	AAA-8210-2020	
Melko, Jaroslav	AAB-3017-2020	
stejskal, tomas	AAB-3866-2020	

ISSN: 2299-8624

Close

Web of Science  
Page 1 (Records 1 -- 12)



Print

Clarivate

Accelerating innovation

© 2020 Clarivate

[Copyright notice](#)

[Terms of use](#)

[Privacy statement](#)

[Cookie policy](#)

[Sign up for the Web of Science newsletter](#)

[Follow us](#)



## Documents

- 1) Stejskal, T., Dovica, M., Svetlík, J., Demec, P.

**Experimental assessment of the static stiffness of machine parts and structures by changing the magnitude of the hysteresis as a function of loading**

(2020) *Open Engineering*, 9 (1), pp. 655-659.

2-s2.0-85078163742

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

**Access Type:** Open Access

- 2) Stejskal, T., Dovica, M., Kelemenová, T., Palaščáková, D., Jakubkovič, E., Povazan, M., Ondočko, Š.

**Measurement of Maximum Deviation from Roundness Based on the Inverse Kinematics Principle**

(2019) *Measurement Science Review*, 19 (6), pp. 271-278.

2-s2.0-85076285120

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

**Access Type:** Open Access

- 3) Stejskal, T., Dovica, M., Ďuriš, S., Ďurišová, Z., Palenčár, J.

**Direct measurement of stationary objects' dimensions with Michelson type incremental laser interferometer**

(2019) *Journal of Physics: Conference Series*, 1379 (1), art. no. 012065, .

2-s2.0-85077820364

**Document Type:** Conference Paper

**Publication Stage:** Final

**Source:** Scopus

**Access Type:** Open Access

- 4) Stejskal, T., Melko, J., Rjabušin, A., Fedorko, G., Hatala, M., Molnár, V.

**Specific principles of work area stiffness measurement applied to a modern three-axis milling machine**

(2019) *International Journal of Advanced Manufacturing Technology*, 102 (5-8), pp. 2541-2554. Cited 1 time.

2-s2.0-85061002521

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

- 5) Stejskal, T., Svetlík, J., Demeč, P., Žilinský, A., Kováč, J.

**Prospective increase in the heat pump's efficiency through arrangement in a three-temperature system**

(2019) *Advances in Mechanical Engineering*, 11 (10), .

2-s2.0-85074203841

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

**Access Type:** Open Access

- 6) Stejskal, T., Dovica, M., Ďuriš, S., Palenčár, R., Palenčár, J.

**Valuation of the normality of distribution in metrology using the fractal principle**  
(2018) *Journal of Physics: Conference Series*, 1065 (21), art. no. 212008, . Cited 1 time.

2-s2.0-85057459250

**Document Type:** Conference Paper

**Publication Stage:** Final

**Source:** Scopus

**Access Type:** Open Access

7) Dobránský, J., Stejskal, T., Svetlík, J.

**Analysis of Mean Reversal Value of on Axis of Linear Guide Depending on the Load**

(2018) *INES 2018 - IEEE 22nd International Conference on Intelligent Engineering Systems, Proceedings*, art. no. 8524005, pp. 000163-000166.

2-s2.0-85058038941

**Document Type:** Conference Paper

**Publication Stage:** Final

**Source:** Scopus

8) Svetlík, J., Hosovsky, A., Trojanova, M., Demec, P., Stejskal, T., Štofa, M.

**Optimizing workspace for homogeneous assemblies of rotational motion modules**

(2018) *SACI 2018 - IEEE 12th International Symposium on Applied Computational Intelligence and Informatics, Proceedings*, art. no. 8440936, pp. 573-579.

2-s2.0-85053426500

**Document Type:** Conference Paper

**Publication Stage:** Final

**Source:** Scopus

9) Stejskal, T., Svetlík, J., Dovica, M., Demeč, P., Král', J.

**Measurement of static stiffness after motion on a three-axis CNC milling table**

(2017) *Applied Sciences (Switzerland)*, 8 (1), art. no. 15, . Cited 5 times.

2-s2.0-85039549350

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

**Access Type:** Open Access

10) Stejskal, T., Štofa, M., Svetlík, J., Pituk, M., Žilinský, A.

**Production Aspects affecting the final precision machining of advanced materials**

(2017) *Key Engineering Materials*, 756, pp. 155-161.

2-s2.0-85029925152

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

11) Stejskal, T., Kelemenová, T., Dovica, M., Demeč, P., Štofa, M.

**Information contents of a signal at repeated positioning measurements of the coordinate measuring machine (CMM) by laser interferometer**

(2016) *Measurement Science Review*, 16 (5), pp. 273-279. Cited 5 times.

2-s2.0-84995550985

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

**Access Type:** Open Access

12) Stejskal, T., Valencik, S., Kmec, J., Kucerka, D., Bicejova, L.



**A special analysis of significant phenomena in diagnostic signal at compressors measurement**  
(2016) *Key Engineering Materials*, 669, pp. 373-381. Cited 2 times.

2-s2.0-84944811122

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

13) Valencik, S., Stejskal, T., Kmec, J., Bicejova, L., Gombar, M.

**Manufacturing systems building and developing**

(2016) *Key Engineering Materials*, 669, pp. 514-522. Cited 1 time.

2-s2.0-84944755409

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

14) Stejskal, T.

**Coupled pendulums-consequences of an experiment inconsistent with the theory1**

(2015) *Acta Technica CSAV (Ceskoslovensk Akademie Ved)*, 60 (2), pp. 193-207.

2-s2.0-84941270552

**Document Type:** Article

**Publication Stage:** Final

**Source:** Scopus

15) Stejskal, T.

**2D-shape analysis using shape invariants**

(2014) *Applied Mechanics and Materials*, 613, pp. 452-457. Cited 1 time.

2-s2.0-84906500545

**Document Type:** Conference Paper

**Publication Stage:** Final

**Source:** Scopus

16) Stejskal, T., Kováč, J., Valenčík, S.

**Mechanism of randomness in vibration signals of machinery**

(2013) *Applied Mechanics and Materials*, 282, pp. 257-262. Cited 12 times.

2-s2.0-84873930701

**Document Type:** Conference Paper

**Publication Stage:** Final

**Source:** Scopus

17) Kováč, J., Stejskal, T., Valenčík, S.

**Virtual reality in the maintenance of machinery and equipment**

(2013) *Applied Mechanics and Materials*, 282, pp. 269-273. Cited 1 time.

2-s2.0-84873900690

**Document Type:** Conference Paper

**Publication Stage:** Final

**Source:** Scopus