

**Technická univerzita v Košiciach**  
**Fakulta baníctva, ekológie, riadenia a geotechnológií**

**PREHĽAD PUBLIKAČNEJ ČINNOSTI Z DATABÁZY  
Publikačnej činnosti TUKE**

**Ing. Tomáš Škovránek, PhD.**

**Košice, október 2020**

**Technická univerzita v Košiciach**  
**Prehľad publikačnej činnosti**  
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**Dátum generovania výstupu: 1. 10. 2020, 22:02:32**

**Skupina A1 - Knižné publikácie charakteru vedeckej monografie (AAA, AAB, ABA, ABB, ABC, ABD)**

**Počet záznamov: 1**

AAA - Vedecké monografie vydané v zahraničných vydavateľstvách (1)

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

**Počet záznamov: 1**

BCI - Skriptá a učebné texty (1)

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

**Počet záznamov: 13**

ADC - Vedecké práce v zahraničných karentovaných časopisoch (13)

**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: 29**

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (1)

ADF - Vedecké práce v domácich nekarentovaných časopisoch (2)

AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách (1)

AFC - Publikované príspevky na zahraničných vedeckých konferenciách (15)

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

**Počet záznamov: 3**

AGI - Správy o vyriešených vedeckovýskumných úlohách (1)

DAI - Dizertačné a habilitačné práce (1)

GII - Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií (1)

**Počet záznamov spolu: 47**

**Menný zoznam publikácií:**

**AAA - Vedecké monografie vydané v zahraničných vydavateľstvách(1)**

AAA001 ŠKOVÁNEK, Tomáš: **Fractional-order systems: Identification using orthogonal distance fitting** / - 1. vyd - Ostrava : VŠB-TU - 2013. - 86 p.. - ISBN 978-80-248-3216-6.

[Archívne číslo: 140166]

**ADC - Vedecké práce v zahraničných karentovaných časopisoch(13)**

ADC001 PODLUBNÝ, Igor - CHECHKIN, Aleksei - ŠKOVÁNEK, Tomáš - CHEN, YangQuan - VINAGRE JARA, Blas M.: **Matrix approach to discrete fractional calculus II: Partial fractional differential equations** / - 2009. In: Journal of Computational Physics. Vol. 228, no. 8 (2009), p. 3137-3153. - ISSN 0021-9991 Spôsob prístupu: <http://dx.doi.org/10.1016/j.jcp.2009.01.014>.

[Archívne číslo: 89128]

ADC002 ŠKOVÁNEK, Tomáš - PODLUBNÝ, Igor - PETRÁŠ, Ivo: **Modeling of the national economies in state-space: A fractional calculus approach** / - 2012. In: Economic Modelling. Vol. 29, no. 4 (2012), p. 1322-1327. - ISSN 0264-9993 Spôsob prístupu: <http://dx.doi.org/10.1016/j.econmod.2012.03.019>.

[Archívne číslo: 121601]

ADC003 SIEROCIUK, Dominik - DZIELINSKI, Andrzej - SARWAS, Grzegorz - PETRÁŠ, Ivo - PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš: **Modelling heat transfer in heterogeneous media using fractional calculus** / - 2013. In: Philosophical Transactions of the Royal Society A. Vol. 371, no. 1990 (2013), p. 1-10. - ISSN 1364-503X Spôsob prístupu: <http://dx.doi.org/10.1098/rsta.2012.0146>.

ADC004 PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš - VINAGRE JARA, Blas M. - PETRÁŠ, Ivo - VERBITSKY, Viktor - CHEN, YangQuan: **Matrix approach to discrete fractional calculus 3: non-equidistant grids, variable step length and distributed orders** / - 2013. In: Philosophical Transactions of the Royal Society A. Vol. 371, no. 1990 (2013), p. 1-15. - ISSN 1364-503X Spôsob prístupu: <http://dx.doi.org/10.1098/rsta.2012.0153>.

[Archívne číslo: 132474]

ADC005 DOVICA, Miroslav - BUŠA, Ján - PALENČÁR, Rudolf - ĎURIŠ, S. - ŠOOŠ, L. - VRBA, I. - KELEMENOVÁ, Tatiana - ŠKOVÁNEK, Tomáš: **Comparison of methods for analysis of deviations from roundness** / - 2013. In: Measurement Techniques. Vol. 56 , no. 9 (2013), p. 1021-1025. - ISSN 0543-1972

[Archívne číslo: 142427]

ADC006 SIEROCIUK, Dominik - ŠKOVÁNEK, Tomáš - MACIAS, Michal - PODLUBNÝ, Igor - PETRÁŠ, Ivo - DZIELINSKI, Andrzej - ZIUBINSKI, Paweł: **Diffusion process modeling by using fractional-order models** / - 2015. In: Applied Mathematics and Computation. Vol. 257 (2015), p. 2-11. - ISSN 0096-3003 Spôsob prístupu: <http://dx.doi.org/10.1016/j.amc.2014.11.028>.

[Archívne číslo: 157624]

ADC007 DESPOTOVIC, Vladimír - ŠKOVÁNEK, Tomáš - PERIC, Zoran: **One-parameter fractional linear prediction** / - 2018. In: Computers & Electrical Engineering : International Journal. - Amsterdame (Holandsko) : Elsevier Roč. 69 (2018), s. 158-170 [online]. - ISSN 0045-7906 Spôsob prístupu: <https://doi.org/10.1016/j.compeleceng.2018.05.020>.

[Archívne číslo: 194981]

ADC008 ŠKOVÁNEK, Tomáš - MACIAS, Michal - SIEROCIUK, Dominik - MALESZA, Wiktor - DZIELINSKI, Andrzej - PODLUBNÝ, Igor - PÓCSOVÁ, Jana - PETRÁŠ, Ivo: **Anomalous diffusion modeling using ultracapacitors in domino ladder circuit** / - 2019. In: Microelectronics Journal. Roč. 84 (2019), s. 136-141 [print]. - ISSN 0026-2692 Spôsob prístupu: <https://doi.org/10.1016/j.mejo.2019.01.005>.

[Archívne číslo: 203508]

ADC009 ŠKOVÁNEK, Tomáš - DESPOTOVIC, Vladimír - PERIC, Zoran: **Optimal fractional linear prediction with restricted memory** / - 2019. In: IEEE Signal Processing Letters : a Publication of the IEEE Signal Processing Society. - New York (USA) : IEEE Signal Processing Society Roč. 26, č. 5 (2019), s. 760-764 [print]. - ISSN 1070-9908 Spôsob prístupu: <http://doi.org/10.1109/LSP.2019.2908278>.

[Archívne číslo: 204759]

ADC010 ŠKOVÁNEK, Tomáš - DESPOTOVIC, Vladimír - PERIC, Zoran: **Two-dimensional fractional linear prediction** / - 2019. In: Computers & Electrical Engineering : International Journal. - Amsterdame (Holandsko) : Elsevier Roč. 77 (2019), s. 37-46 [online]. - ISSN 0045-7906 Spôsob prístupu: <https://doi.org/10.1016/j.compeleceng.2019.04.021>.

[Archívne číslo: 204869]

ADC011 ŠKOVÁNEK, Tomáš - DESPOTOVIC, Vladimír: **Audio Signal Processing Using Fractional Linear Prediction** / - 2019. In: Mathematics. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 7, č. 7 (2019), s. 1-13 [online]. - ISSN 2227-7390 Spôsob prístupu: <https://doi.org/10.3390/math7070580>.

[Archívne číslo: 207504]

ADC012 ŠKOVÁNEK, Tomáš: **The Mittag-Leffler Fitting of the Phillips Curve** / - 2019. In: Mathematics. - Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 7, č. 7 (2019), s. 1-11 [online]. - ISSN 2227-7390 Spôsob prístupu: <https://doi.org/10.3390/math7070589>.

[Archívne číslo: 207505]

ADC013 DESPOTOVIC, Vladimír - ŠKOVÁNEK, Tomáš - SCHOMMER, Christoph: **Speech Based Estimation of Parkinson's Disease Using Gaussian Processes and Automatic Relevance Determination** / - 2020. In: Neurocomputing. č. 401 (2020), s. 173-181 [print]. - ISSN 0925-2312 Spôsob prístupu: <https://doi.org/10.1016/j.neucom.2020.03.058>.

[Archívne číslo: 217861]

## ADE - Vedecké práce v zahraničných nekarentovaných časopisoch(1)

ADE001 PODLUBNÝ, Igor - DESPOTOVIC, Vladimír - ŠKOVÁNEK, Tomáš - MCNAUGHTON, Brandon H.: **Shadows on the walls: geometric interpretation of fractional integration /** - 2007. In: Journal of Online Mathematics and its Applications. Vol. 7, November (2007), p. 1-8. - ISSN 1935-6439 Spôsob prístupu: <http://mathdl.maa.org/mathDL/4/?pa=content&sa=viewDocument&nodId=1664>.

[Archívne číslo: 65660]

## ADF - Vedecké práce v domácich nekarentovaných časopisoch(2)

ADF001 HUDYMÁČOVÁ, Martina - BENKOVÁ, Marta - PÓCSOVÁ, Jana - ŠKOVÁNEK, Tomáš: **Supplier selection based on multi-criterial AHP method /** - 2010. In: Acta Montanistica Slovaca. Roč. 15, č. 3 (2010), s. 249-255. - ISSN 1335-1788

[Archívne číslo: 108641]

ADF002 DZIELIŃSKI, Andrzej - SIEROCIU, Dominik - SARWAS, Grzegorz - PETRÁŠ, Ivo - PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš: **Identification of the fractional-order systems: A frequency domain approach /** - 2011. In: Acta Montanistica Slovaca. Roč. 16, č. 1 (2011), s. 26-33. - ISSN 1335-1788 Spôsob prístupu: [http://actamont.tuke.sk/pdf/2011/n1/04\\_Dzelinski.pdf](http://actamont.tuke.sk/pdf/2011/n1/04_Dzelinski.pdf).

[Archívne číslo: 116135]

## AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách(1)

AEC001 ŠKOVÁNEK, Tomáš - DESPOTOVIC, Vladimír: **Signal prediction using fractional derivative models /** - 2019. In: Handbook of Fractional Calculus with Applications. Volume 8. Applications in Engineering, Life and Social Sciences, Part B. - Berlin (Nemecko) : De Gruyter s. 179-205 [online, print]. - ISBN 978-3-11-057092-2

[Archívne číslo: 204761]

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

AFC001 PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš - BEDNÁROVÁ, Dagmar - PETRÁŠ, Ivo: **State space desription of national economies: the Scandinavian countries /** - 2007. In: Information sciences 2007. - S.l. : World Scientific Publishing, 2007 7 p. - ISBN 9789812709677 Spôsob prístupu: [http://eproceedings.worldscinet.com/9789812709677/9789812709677\\_0060.html](http://eproceedings.worldscinet.com/9789812709677/9789812709677_0060.html).

[Archívne číslo: 62939]

AFC002 ŠKOVÁNEK, Tomáš - DESPOTOVIC, Vladimír - PODLUBNÝ, Igor - PETRÁŠ, Ivo - BEDNÁROVÁ, Dagmar: **Matlab realization of a new method for identification of systems of arbitrary real order /** - 2008. In: Technical Computing Prague 2008. - Praha : Humusoft, 2008 P. 1-6. - ISBN 9788070806920

[Archívne číslo: 78009]

AFC003 ŠKOVÁNEK, Tomáš - DESPOTOVIC, Vladimír - PODLUBNÝ, Igor: **A new method for identification of systems of arbitrary real order based on solution of fractional differential equations and orthogonal distance fitting /** - 2008. In: Junior Scientist Conference 2008 : konferencia : Viedeň, 16.-18.11.2008. - Vienna : University of Technology, 2008 P. 75-76. - ISBN 9783200016125

[Archívne číslo: 78702]

AFC004 PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš - VINAGRE JARA, Blas M.: **Matrix approach to discretization of ordinary and partial differential equations of arbitrary real order: the MATLAB toolbox /** - 2009. - 1 elektronický optický disk (CD-ROM). In: ASME 2009 : Design Engineering Technical Conferences & Computers and Information in Engineering Conference (DETC2009) : August 30 - September 2, 2009, San Diego, California, USA. - San Diego : ASME, 2009 P. 1-8. - ISBN 978-0-7918-3856-3 Spôsob prístupu: <http://www.asmeconferences.org/detc09/>.

[Archívne číslo: 90378]

AFC005 PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš - VINAGRE JARA, Blas M.: **Matrix approach to discretization of fractional derivatives and to solution of fractional differential equations and their systems /** - 2009. - 1 elektronický optický disk (CD-ROM). In: ETFA '2009 : IEEE Conference on Emerging Technologies & Factory Automation : September 22-26, 2009, Mallorca, Spain. - S.l. : IEEE, 2009 P. 1-6. - ISBN 978-1-4244-2728-4 - ISSN 1946-0759

[Archívne číslo: 90384]

AFC006 ŠKOVÁNEK, Tomáš - DESPOTOVIČ, Vladimír: **Identification of systems of arbitrary real order: a new method based on solution on systems of fractional order differential equations and orthogonal distance fitting** / - 2009. In: ASME 2009 : Design Engineering Technical Conferences and Computers and Information in Engineering Conference (DETC2009) : August 30 - September 2, 2009, San Diego, California, USA. - [San Diego] : ASME, 2009 P. 1-6. - ISBN 978-0-7918-3856-3

[Archívne číslo: 97240]

AFC007 ŠKOVÁNEK, Tomáš - VERBICKIJ, Viktor V. - TARTE, Yashodhan - PODLUBNÝ, Igor: **Discretization of fractional-order operators and fractional differential equations on a non-equidistant mesh** / - 2010. - 1 elektronický optický disk (CD-ROM). In: FDA'10 :: proceedings of the 4th IFAC Workshop on Fractional Differentiation and Its Applications : University of Extremadura, Badajoz, Spain, October 18-20, 2010. - Košice : TU, 2010 P. 1-4. - ISBN 978-80-553-0487-8

[Archívne číslo: 104357]

AFC008 BEDNÁROVÁ, Dagmar - PETRÁŠ, Ivo - PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš - O'LEARY, Paul: **Total least squares in modeling: Matlab toolbox** / - 2010. In: ICCC'2010 : proceedings of 11th International Carpathian Control Conference : 26-28 May, 2010, Eger, Hungary. - Miskolc : Rekatek, 2010 P. 327-330. - ISBN 978-963-06-9289-2

[Archívne číslo: 97235]

AFC009 ŠKOVÁNEK, Tomáš - PODLUBNÝ, Igor: **Identification of systems using orthogonal distance fitting and matrix approach to solution of systems of fractional differential equations** / - 2010. In: ICCC'2010 : proceedings of 11th International Carpathian Control Conference : 26-28 May, 2010, Eger, Hungary. - Miskolc : Rekatek, 2010 P. 439-442. - ISBN 978-963-06-9289-2

[Archívne číslo: 97237]

AFC010 DZIELIŃSKI, Andrzej - SARWAS, Grzegorz - SIEROCIU, Dominik - ŠKOVÁNEK, Tomáš - PETRÁŠ, Ivo: **Frequency response based identification of fractional order dynamical systems** / - 2011. - 1 elektronický optický disk (CD-ROM). In: ICCC 2011 : proceedings of the 12th International Carpathian Control Conference : 25-28 May 2011, Velké Karlovice, Czech Republic. - S.I. : IEEE, 2011 P. 102-106. - ISBN 978-1-61284-359-9

[Archívne číslo: 110118]

AFC011 SIEROCIU, Dominik - DZIELIŃSKI, Andrzej - SARWAS, Grzegorz - PETRÁŠ, Ivo - PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš: **Modeling Heat Transfer In Heterogeneous Media Using Fractional Calculus** / - 2011. In: ASME 2011 : International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (DETC2011) : August 28-31, 2011, Washington. - [S. I.] : ASME, 2011 P. 1-5. Spôsob prístupu: <http://www.asmeconferences.org/IDETC2011/>.

[Archívne číslo: 112190]

AFC012 PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš - PETRÁŠ, Ivo - VERBICKIJ, Viktor - CHEN, YangQuan - VINAGRE, Blas: **Discrete fractional calculus : non-equidistant grids and variable step length** / - 2011. In: ASME 2011 : International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (DETC2011) : August 28-31, 2011, Washington. - [S.I.] : ASME, 2011 P. 1-7. Spôsob prístupu: <http://www.asmeconferences.org/IDETC2011/>.

[Archívne číslo: 112191]

AFC013 ŠKOVÁNEK, Tomáš - KUKURUGYA, Ján - PODLUBNÝ, Igor - TERPÁK, Ján: **Fractional order control model of steel casting process** / - 2011. - 1 elektronický optický disk (CD-ROM). In: ICCC 2011 : proceedings of the 12th International Carpathian Control Conference : 25-28 May 2011, Velké Karlovice, Czech Republic. - S.I. : IEEE, 2011 P. 357-361. - ISBN 978-1-61284-359-9

[Archívne číslo: 116048]

AFC014 PODLUBNÝ, Igor - ŠKOVÁNEK, Tomáš - DATSKO, Bohdan: **Recent advances in numerical methods for partial fractional differential equations** / - 2014. In: ICCC 2014 : proceedings of the 2014 15th International Carpathian Control Conference : Velke Karlovice, May 28-30, 2014. - Danvers : IEEE, 2014 P. 454-457. - ISBN 978-1-4799-3528-4

[Archívne číslo: 156880]

AFC015 DESPOTOVIC, Vladimir - ŠKOVÁNEK, Tomáš: **Fractional-order speech prediction** / - 2016. In: ICFDA 2016. - Novi Sad : Serbian Society of Mechanics and Faculty of Technical Sciences, 2016 P. 124-127. - ISBN 978-86-7892-830-7

[Archívne číslo: 175657]

## AFD - Publikované príspevky na domácich vedeckých konferenciách(6)

AFD001 PODLUBNÝ, Igor - BEDNÁROVÁ, Dagmar - ŠKOVÁNEK, Tomáš - PETRÁŠ, Ivo:  
**Modelovanie ekonomík štátov v stavovom priestore /** - 2009. - 1 elektronický optický disk (CD-ROM). In: Ekonomika a proces poznávania : zborník vedeckej konferencie doktorandov a mladých vedeckých pracovníkov : Prešov, 16. november 2009. - Prešov : PU, 2009 S. 1-5. - ISBN 978-80-555-0141-3

[Archívne číslo: 96441]

AFD002 PODLUBNÝ, Igor - PETRÁŠ, Ivo - ŠKOVÁNEK, Tomáš: **Fitting of experimental data using Mittag-Leffler function /** - 2012. - 1 elektronický optický disk (CD-ROM). In: ICCC 2012 : proceedings of the 13th International Carpathian Control Conference : Podbanské, Slovak Republic, May 28-31, 2012. - Piscataway : IEEE, 2012 S. 578-581. - ISBN 978-1-4577-1866-3

[Archívne číslo: 123149]

AFD003 ŠKOVÁNEK, Tomáš - PODLUBNÝ, Igor - PETRÁŠ, Ivo - BEDNÁROVÁ, Dagmar: **Data fitting using solutions of differential equations: fractional-order model versus integer-order model /** - 2012. - 1 elektronický optický disk (CD-ROM). In: ICCC 2012 : proceedings of the 13th International Carpathian Control Conference : Podbanské, Slovak Republic, May 28-31, 2012. - Piscataway : IEEE, 2012 S. 703-710. - ISBN 978-1-4577-1866-3

[Archívne číslo: 123152]

AFD004 PODLUBNÝ, Igor - PETRÁŠ, Ivo - ŠKOVÁNEK, Tomáš - TERPÁK, Ján: **Toolboxes and programs for fractional-order system identification, modeling, simulation, and control /** - 2016. In: ICCC 2016. - Danvers : IEEE, 2016 P. 608-612. - ISBN 978-1-4673-8605-0

[Archívne číslo: 170930]

AFD005 MOJŽIŠOVÁ, Andrea - PÓCSOVÁ, Jana - ŠKOVÁNEK, Tomáš: **Automatic Test Generator /** - 2016. In: ICCC 2016. - Danvers : IEEE, 2016 P. 511-516. - ISBN 978-1-4673-8605-0

[Archívne číslo: 171249]

AFD006 ŠKOVÁNEK, Tomáš - MOJŽIŠOVÁ, Andrea - PÓCSOVÁ, Jana: **MATLAB: The Ultimate Tool for Teaching Process Control Oriented Courses /** - 2016. In: ICCC 2016. - Danvers : IEEE, 2016 P. 717-722. - ISBN 978-1-4673-8605-0

[Archívne číslo: 171250]

## AFG - Abstrakty príspevkov zo zahraničných konferencií(2)

AFG001 PODLUBNÝ, Igor - PETRÁŠ, Ivo - ŠKOVÁNEK, Tomáš - VERBITSKY, Viktor - VINAGRE, Blas - CHEN, YangQuan: **Jedinyj podchod k čislennomu rešeniju integral'nych i differencial'nych uravnenij drobnovo porjadka /** - 2013. In: The modern problems of solid mechanics, differential and integral equations : international scientific conference : abstracts : August 23-26, 2013, Odesa. - Odesa : ONU, 2013 P. 135-136.

[Archívne číslo: 140223]

AFG002 PODLUBNÝ, Igor - PETRÁŠ, Ivo - ŠKOVÁNEK, Tomáš - TERPÁK, Ján: **Fractional-order modeling and control: a set of toolboxes for MATLAB /** - 2015. In: Technical computing Prague 2015. - Prague : University of Chemistry and Technology, 2015 P. 48-48. - ISBN 978-80-7080-936-5

[Archívne číslo: 167503]

## AFH - Abstrakty príspevkov z domácich konferencií(2)

AFH001 ŠKOVÁNEK, Tomáš: **MATLAB: The Ultimate Teaching Tool /** - 2015. In: New Approaches in Engineering Education. - Košice : TU, 2015 S. 24. - ISBN 978-80-553-2188-2

[Archívne číslo: 162709]

AFH002 ŠKOVÁNEK, Tomáš - DESPOTOVIC, Vladimir: **Linear prediction of speech - the fractional derivative formula /** - 2017. In: 2017 International Workshop on Fractional Calculus and its Applications. - Košice : TU, 2017 S. 17-18. - ISBN 978-80-553-2899-7

[Archívne číslo: 191543]

### AGI - Správy o vyriešených vedeckovýskumných úlohách(1)

AGI001 DORČÁK, Ľubomír - PETRÁŠ, Ivo - PODLUBNÝ, Igor - TERPÁK, Ján - LAVRIN, Anton - LEŠŠO, Igor - PIVKA, Ladislav - LACIAK, Marek - MOJŽIŠOVÁ, Andrea - ŽELEZNÍK, Ondrej - DURDÁN, Milan - KACUR, Ján - FLEGNER, Patrik - PAPAJOVÁ, Marcela - ŠKOVRÁNEK, Tomáš - PAVLÍČKOVÁ, Marcela: **Výskum a vývoj metód, algoritmov a prostriedkov pre modelovanie, analýzu, návrh a projektovanie efektívnych technológií a riadiacich systémov technologických objektov a procesov** záverečná správa za celú dobu riešenia projektu č. 1040408/ - Košice : TU - 2011. - 14 s..

[Archívne číslo: 109889]

### BCI - Skriptá a učebné texty(1)

BCI001 ŠKOVRÁNEK, Tomáš: **Vybrané kapitoly z teórie rozhodovania** / - 1. vyd. - Košice : Technická univerzita v Košiciach - 2020. - 72 s. [print]. - ISBN 978-80-553-3555-1.

[Archívne číslo: 217458]

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

DAI001 ŠKOVRÁNEK, Tomáš: **Analysis, synthesis and identification of fractional order systems** dissertation/ - Košice : - 2009. - 142 s..

[Archívne číslo: 106028]

### GII - Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií(1)

GII001 ŠKOVRÁNEK, Tomáš - SIEROCIUK, Dominik - DESPOTOVIC, Vladimir: **2017 International Workshop on Fractional Calculus and its Applications** International Workshop, May 12, 2017, Košice, Slovakia/ - 1. vyd. - Košice : TU - 2017. - 32 s.. - ISBN 978-80-553-2899-7.

[Archívne číslo: 191542]

V Košiciach 06.10.2020

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Ing. Tomáš Škovránek, PhD.  
Ústav riadenia a informatizácie  
výrobných procesov  
FBERG, TUKE

**Technická univerzita v Košiciach**  
**Fakulta baníctva, ekológie, riadenia a geotechnológií**

**PREHĽAD PUBLIKAČNEJ ČINNOSTI Z DATABÁZY  
Web of Science**

**Ing. Tomáš Škovránek, PhD.**

**Košice, október 2020**

**PREHLAD PUBLIKÁCIÍ AUTORA Z DATABÁZY WEB OF SCIENCE**  
(výpis z databázy WoS 24.09.2020)

**Record 1 of 26**

**Title:** Speech Based Estimation of Parkinson's Disease Using Gaussian Processes and Automatic Relevance Determination

**Author(s):** Despotovic, V (Despotovic, Vladimir); Skovranek, T (Skovranek, Tomas); Schommer, C (Schommer, Christoph)

**Source:** NEUROCOMPUTING **Volume:** 401 **Pages:** 173-181 **DOI:** 10.1016/j.neucom.2020.03.058 **Published:** AUG 11 2020

**Accession Number:** WOS:000544725700017

**ISSN:** 0925-2312

**eISSN:** 1872-8286

**Record 2 of 26**

**Title:** Two-dimensional fractional linear prediction

**Author(s):** Skovranek, T (Skovranek, Tomas); Despotovic, V (Despotovic, Vladimir); Peric, Z (Peric, Zoran)

**Source:** COMPUTERS & ELECTRICAL ENGINEERING **Volume:** 77 **Pages:** 37-46 **DOI:** 10.1016/j.compeleceng.2019.04.021 **Published:** JUL 2019

**Accession Number:** WOS:000483629600004

**ISSN:** 0045-7906

**eISSN:** 1879-0755

**Record 3 of 26**

**Title:** The Mittag-Leffler Fitting of the Phillips Curve

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

**Source:** MATHEMATICS **Volume:** 7 **Issue:** 7 **Article Number:** 589 **DOI:** 10.3390/math7070589 **Published:** JUL 2019

**Accession Number:** WOS:000478765700033

**eISSN:** 2227-7390

**Record 4 of 26**

**Title:** Audio Signal Processing Using Fractional Linear Prediction

**Author(s):** Skovranek, T (Skovranek, Tomas); Despotovic, V (Despotovic, Vladimir)

**Source:** MATHEMATICS **Volume:** 7 **Issue:** 7 **Article Number:** 580 **DOI:** 10.3390/math7070580 **Published:** JUL 2019

**Accession Number:** WOS:000478765700031

**eISSN:** 2227-7390

**Record 5 of 26**

**Title:** Optimal Fractional Linear Prediction With Restricted Memory

**Author(s):** Skovranek, T (Skovranek, Tomas); Despotovic, V (Despotovic, Vladimir); Peric, Z (Peric, Zoran)

**Source:** IEEE SIGNAL PROCESSING LETTERS **Volume:** 26 **Issue:** 5 **Pages:** 760-764 **DOI:** 10.1109/LSP.2019.2908278 **Published:** MAY 2019

**Accession Number:** WOS:000464919800008

**ISSN:** 1070-9908

**eISSN:** 1558-2361

**Record 6 of 26**

**Title:** Anomalous diffusion modeling using ultracapacitors in domino ladder circuit

**Author(s):** Skovranek, T (Skovranek, Tomas); Macias, M (Macias, Michal); Sierociuk, D (Sierociuk, Dominik); Malesza, W (Malesza, Wiktor); Dzielinski, A (Dzielinski, Andrzej); Podlubny, I (Podlubny, Igor); Pocsova, J (Pocsova, Jana); Petras, I (Petras, Ivo)

**Source:** MICROELECTRONICS JOURNAL **Volume:** 84 **Pages:** 136-141 **DOI:** 10.1016/j.mejo.2019.01.005 **Published:** FEB 2019

**Accession Number:** WOS:000459826800016

**ISSN:** 0026-2692

**eISSN:** 1879-2391

**Record 7 of 26**

**Title:** One-parameter fractional linear prediction

**Author(s):** Despotovic, V (Despotovic, Vladimir); Skovranek, T (Skovranek, Tomas); Peric, Z (Peric, Zoran)

**Source:** COMPUTERS & ELECTRICAL ENGINEERING **Volume:** 69 **Pages:** 158-170 **DOI:** 10.1016/j.compeleceng.2018.05.020 **Published:** JUL 2018

**Accession Number:** WOS:000440122300012

**ISSN:** 0045-7906

**eISSN:** 1879-0755

**Record 8 of 26**

**Title:** Automatic Test Generator

**Author(s):** Mojzisova, A (Mojzisova, Andrea); Pocsova, J (Pocsova, Jana); Skovranek, T (Skovranek, Tomas)

**Edited by:** Petras I; Podlubny I; Kacur J

**Source:** PROCEEDINGS OF THE 2016 17TH INTERNATIONAL CARPATHIAN CONTROL CONFERENCE (ICCC) **Pages:** 511-516 **Published:** 2016

**Accession Number:** WOS:000389829000096

**Conference Title:** 17th IEEE International Carpathian Control Conference (ICCC)

**Conference Date:** MAY 29-JUN 01, 2016

**Conference Location:** Tatranska Lomnica, SLOVAKIA

**Conference Sponsors:** IEEE, IEEE Czechoslovakia Sect, Slovak Soc Appl Cybernet & Informat, Tech Univ Kosice, Fac Mining Ecol Proc Control & Geotechnol, Inst Control & Informatizat Prod Proc, Tech Univ Ostrava, Fac Mech Engn, Dept Control Syst & Instrumentat, AGH Univ Sci & Technol, Fac Mech Engn & Robot, Dept Proc Control, Univ Miskolc, Dept Automat & Infocommunicat, Univ Craiova, Fac Automat Comp & Elect, Dept Automat Control

**ISBN:** 978-1-4673-8606-7

**Record 9 of 26**

**Title:** Toolboxes and programs for fractional-order system identification, modeling, simulation, and control

**Author(s):** Podlubny, I (Podlubny, Igor); Petras, I (Petras, Ivo); Skovranek, T (Skovranek, Tomas); Terpak, J (Terpak, Jan)

**Edited by:** Petras I; Podlubny I; Kacur J

**Source:** PROCEEDINGS OF THE 2016 17TH INTERNATIONAL CARPATHIAN CONTROL CONFERENCE (ICCC) **Pages:** 608-612 **Published:** 2016

**Accession Number:** WOS:000389829000113

**Conference Title:** 17th IEEE International Carpathian Control Conference (ICCC)

**Conference Date:** MAY 29-JUN 01, 2016

**Conference Location:** Tatranska Lomnica, SLOVAKIA

**Conference Sponsors:** IEEE, IEEE Czechoslovakia Sect, Slovak Soc Appl Cybernet & Informat, Tech Univ Kosice, Fac Mining Ecol Proc Control & Geotechnol, Inst Control & Informatizat Prod Proc, Tech Univ Ostrava, Fac Mech Engn, Dept Control Syst & Instrumentat, AGH Univ Sci & Technol, Fac Mech Engn & Robot, Dept Proc Control, Univ Miskolc, Dept Automat & Infocommunicat, Univ Craiova, Fac Automat Comp & Elect, Dept Automat Control

**ISBN:** 978-1-4673-8606-7

**Record 10 of 26**

**Title:** MATLAB: The Ultimate Tool for Teaching Process Control Oriented Courses

**Author(s):** Skovranek, T (Skovranek, Tomas); Mojzisova, A (Mojzisova, Andrea); Pocsova, J (Pocsova, Jana)

**Edited by:** Petras I; Podlubny I; Kacur J

**Source:** PROCEEDINGS OF THE 2016 17TH INTERNATIONAL CARPATHIAN CONTROL CONFERENCE (ICCC) **Pages:** 717-722 **Published:** 2016

**Accession Number:** WOS:000389829000134

**Conference Title:** 17th IEEE International Carpathian Control Conference (ICCC)

**Conference Date:** MAY 29-JUN 01, 2016

**Conference Location:** Tatranska Lomnica, SLOVAKIA

**Conference Sponsors:** IEEE, IEEE Czechoslovakia Sect, Slovak Soc Appl Cybernet & Informat, Tech Univ Kosice, Fac Mining Ecol Proc Control & Geotechnol, Inst Control & Informatizat Prod Proc, Tech Univ Ostrava, Fac Mech Engn, Dept Control Syst & Instrumentat, AGH Univ Sci & Technol, Fac Mech Engn & Robot, Dept Proc Control, Univ Miskolc, Dept Automat & Infocommunicat, Univ Craiova, Fac Automat Comp & Elect, Dept Automat Control

**ISBN:** 978-1-4673-8606-7

**Record 11 of 26**

**Title:** Diffusion process modeling by using fractional-order models

**Author(s):** Sierociuk, D (Sierociuk, Dominik); Skovranek, T (Skovranek, Tomas); Macias, M (Macias, Michal); Podlubny, I (Podlubny, Igor); Petras, I (Petras, Ivo); Dzielinski, A (Dzielinski, Andrzej); Ziubinski, P (Ziubinski, Paweł)

**Source:** APPLIED MATHEMATICS AND COMPUTATION **Volume:** 257 **Pages:** 2-11 **DOI:** 10.1016/j.amc.2014.11.028 **Published:** APR 15 2015

**Accession Number:** WOS:000350996000002

**ISSN:** 0096-3003

**eISSN:** 1873-5649

**Record 12 of 26**

**Title:** Recent advances in numerical methods for partial fractional differential equations

**Author(s):** Podlubny, I (Podlubny, Igor); Skovranek, T (Skovranek, Tomas); Datsko, B (Datsko, Bohdan)

**Edited by:** Petras I; Podlubny I; Kacur J; Farana R

**Source:** 2014 15TH INTERNATIONAL CARPATHIAN CONTROL CONFERENCE (ICCC) **Pages:** 454-457 **Published:** 2014

**Accession Number:** WOS:000359794600090

**Conference Title:** 15th International Carpathian Control Conference (ICCC)

**Conference Date:** MAY 28-30, 2014

**Conference Location:** Velke Karlovice, CZECH REPUBLIC

**Conference Sponsors:** IEEE, IEEE Czechoslovakia Sect, VSB Tech Univ Ostrava, VSB Tech Univ Ostrava, Fac Mech Engn, Dept Control Syst & Instrumentat, Univ Ostrava, Inst Res & Applicat Fuzzy Modeling, VSB Tech Univ Ostrava, Fac Mining & Geotechnol, Inst Econ & Control Syst, AGH Univ Sci & Technol, Fac Mech Engn & Robot, Tech Univ Kosice, Fac Mining Ecol Proc Control & Geotechnol, Univ Miskolc, Dept Automat & Communicat Technol, Univ Craiova, Fac Automat Comp & Elect

**ISBN:** 978-1-4799-3528-4

**Record 13 of 26**

**Title:** COMPARISON OF METHODS FOR ANALYSIS OF DEVIATIONS FROM ROUNDNESS

**Author(s):** Dovica, M (Dovica, M.); Busa, J (Busa, J.); Palencar, R (Palencar, R.); Duris, S (Duris, S.); Soos, L (Soos, L.); Vrba, I (Vrba, I.); Kelemenova, T (Kelemenova, T.); Skovranek, T (Skovranek, T.)

**Source:** MEASUREMENT TECHNIQUES **Volume:** 56 **Issue:** 9 **Pages:** 1021-1025 **DOI:** 10.1007/s11018-013-0323-x **Published:** DEC 2013

**Accession Number:** WOS:000328454000013

**ISSN:** 0543-1972

**eISSN:** 1573-8906

**Record 14 of 26**

|  |
|--|
| <b>Title:</b> Modelling heat transfer in heterogeneous media using fractional calculus   |
| <b>Author(s):</b> Sierociuk, D (Sierociuk, Dominik); Dzielinski, A (Dzielinski, Andrzej); Sarwas, G (Sarwas, Grzegorz); Petras, I (Petras, Ivo); Podlubny, I (Podlubny, Igor); Skovranek, T (Skovranek, Tomas) |
| <b>Source:</b> PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES  |
| <b>Volume:</b> 371 <b>Issue:</b> 1990 <b>Special Issue:</b> SI <b>Article Number:</b> 20120146 <b>DOI:</b> 10.1098/rsta.2012.0146 <b>Published:</b> MAY 13 2013  |
| <b>Accession Number:</b> WOS:000316942100003   |
| <b>PubMed ID:</b> 23547224   |
| <b>ISSN:</b> 1364-503X   |
| <b>eISSN:</b> 1471-2962  |

**Record 15 of 26**

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| <b>Title:</b> Matrix approach to discrete fractional calculus III: non-equidistant grids, variable step length and distributed orders  |
| <b>Author(s):</b> Podlubny, I (Podlubny, Igor); Skovranek, T (Skovranek, Tomas); Jara, BMV (Vinagre Jara, Blas M.); Petras, I (Petras, Ivo); Verbitsky, V (Verbitsky, Viktor); Chen, YQ (Chen, YangQuan) |
| <b>Source:</b> PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES  |
| <b>Volume:</b> 371 <b>Issue:</b> 1990 <b>Special Issue:</b> SI <b>Article Number:</b> 20120153 <b>DOI:</b> 10.1098/rsta.2012.0153 <b>Published:</b> MAY 13 2013  |
| <b>Accession Number:</b> WOS:000316942100009   |
| <b>PubMed ID:</b> 23547230   |
| <b>ISSN:</b> 1364-503X   |
| <b>eISSN:</b> 1471-2962  |

**Record 16 of 26**

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| <b>Title:</b> Modeling of the national economies in state-space: A fractional calculus approach                                |
| <b>Author(s):</b> Skovranek, T (Skovranek, Tomas); Podlubny, I (Podlubny, Igor); Petras, I (Petras, Ivo)                       |
| <b>Source:</b> ECONOMIC MODELLING  |
| <b>Volume:</b> 29 <b>Issue:</b> 4 <b>Pages:</b> 1322-1327 <b>DOI:</b> 10.1016/j.econmod.2012.03.019 <b>Published:</b> JUL 2012 |
| <b>Accession Number:</b> WOS:000306299900039   |
| <b>ISSN:</b> 0264-9993   |
| <b>eISSN:</b> 1873-6122  |

**Record 17 of 26**

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| <b>Title:</b> MODELING HEAT TRANSFER IN HETEROGENEOUS MEDIA USING FRACTIONAL CALCULUS  |
| <b>Author(s):</b> Sierociuk, D (Sierociuk, Dominik); Dzielinski, A (Dzielinski, Andrzej); Sarwas, G (Sarwas, Grzegorz); Petras, I (Petras, Ivo); Podlubny, I (Podlubny, Igor); Skovranek, T (Skovranek, Tomas) |
| <b>Book Group Author(s):</b> ASME  |
| <b>Source:</b> PROCEEDINGS OF THE ASME INTERNATIONAL DESIGN ENGINEERING TECHNICAL CONFERENCES AND COMPUTERS AND INFORMATION IN ENGINEERING CONFERENCE, 2011, VOL 3, PTS A AND B                                |
| <b>Pages:</b> 143-147 <b>Published:</b> 2012   |
| <b>Accession Number:</b> WOS:000324221300019   |

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| <b>Conference Title:</b> ASME International Design Engineering Technical Conferences / Computers and Information in Engineering Conference (IDETC/CIE) |
| <b>Conference Date:</b> AUG 28-31, 2011  |
| <b>Conference Location:</b> Washington, DC   |
| <b>Conference Sponsors:</b> Amer Soc Mech Engineers, Design Engn Div, Amer Soc Mech Engineers, Comp & Informat Engn Div                                |
| <b>ISBN:</b> 978-0-7918-5479-2   |

**Record 18 of 26**

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| <b>Title:</b> DISCRETE FRACTIONAL CALCULUS: NON-EQUIDISTANT GRIDS AND VARIABLE STEP LENGTH   |
| <b>Author(s):</b> Podlubny, I (Podlubny, Igor); Skovranek, T (Skovranek, Tomas); Petras, I (Petras, Ivo); Verbickij, VV (Verbickij, Viktor V.); Chen, YQ (Chen, YangQuan); Jara, BMV (Vinagre Jara, Blas M.)                 |
| <b>Book Group Author(s):</b> ASME  |
| <b>Source:</b> PROCEEDINGS OF THE ASME INTERNATIONAL DESIGN ENGINEERING TECHNICAL CONFERENCES AND COMPUTERS AND INFORMATION IN ENGINEERING CONFERENCE, 2011, VOL 3, PTS A AND B <b>Pages:</b> 211-217 <b>Published:</b> 2012 |
| <b>Accession Number:</b> WOS:000324221300028   |
| <b>Conference Title:</b> ASME International Design Engineering Technical Conferences / Computers and Information in Engineering Conference (IDETC/CIE)   |
| <b>Conference Date:</b> AUG 28-31, 2011  |
| <b>Conference Location:</b> Washington, DC   |
| <b>Conference Sponsors:</b> Amer Soc Mech Engineers, Design Engn Div, Amer Soc Mech Engineers, Comp & Informat Engn Div  |
| <b>ISBN:</b> 978-0-7918-5479-2   |

**Record 19 of 26**

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| <b>Title:</b> Identification of the Fractional-Order Systems: A Frequency Domain Approach  |
| <b>Author(s):</b> Dzielinski, A (Dzielinski, Andrzej); Sierociuk, D (Sierociuk, Dominik); Sarwas, G (Sarwas, Grzegorz); Petras, I (Petras, Ivo); Podlubny, I (Podlubny, Igor); Skovranek, T (Skovranek, Tomas) |
| <b>Source:</b> ACTA MONTANISTICA SLOVACA <b>Volume:</b> 16 <b>Issue:</b> 1 <b>Pages:</b> 26-33 <b>Published:</b> 2011  |
| <b>Accession Number:</b> WOS:000300111400004   |
| <b>ISSN:</b> 1335-1788   |

**Record 20 of 26**

|   |
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| <b>Title:</b> Supplier selection based on multi-criterial AHP method  |
| <b>Author(s):</b> Hudymacova, M (Hudymacova, Martina); Benkova, M (Benkova, Marta); Pocsova, J (Pocsova, Jana); Skovranek, T (Skovranek, Tomas) |
| <b>Source:</b> ACTA MONTANISTICA SLOVACA <b>Volume:</b> 15 <b>Issue:</b> 3 <b>Pages:</b> 249-255 <b>Published:</b> 2010                         |
| <b>Accession Number:</b> WOS:000288875500012  |
| <b>ISSN:</b> 1335-1788  |

**Record 21 of 26**

**Title:** TOTAL LEAST SQUARES IN MODELING: MATLAB TOOLBOX

**Author(s):** Bednarova, D (Bednarova, Dagmar); Petras, I (Petras, Ivo); Podlubny, I (Podlubny, Igor); Skovranek, T (Skovranek, Tomas); O'Leary, P (O'Leary, Paul)

**Edited by:** Varga AK; Vasarhelyi J

**Source:** PROCEEDINGS OF 11TH INTERNATIONAL CARPATHIAN CONTROL CONFERENCE, 2010 **Pages:** 327-330 **Published:** 2010

**Accession Number:** WOS:000396785800072

**Conference Title:** 11th International Carpathian Control Conference (ICCC 2010)

**Conference Date:** MAY 26-28, 2010

**Conference Location:** Univ Miskolc, Dept automat, Eger, HUNGARY

**Conference Sponsors:** Univ Miskolc, Fac Mech Engn & Informat, Dept Automat, VSB Tech Univ Ostrava, Fac Mech Engn, Dept Control Syst & Instrumentat, AGH Univ Sci & Technol, Fac Mech Engn & Robot, Dept Process Control, Univ Craiova, Fac automat Comp & Elect, Dept Automat Control, Tech Univ Kosice, Fac Min Ecol Management & Geotechnol, Inst Control & Informatizat Prod Processes

**Conference Host:** Univ Miskolc, Dept automat

**ISBN:** 978-963-06-9289-2

**Record 22 of 26**

**Title:** IDENTIFICATION OF SYSTEMS USING ORTHOGONAL DISTANCE FITTING AND MATRIX APPROACH TO SOLUTION OF SYSTEMS OF FRACTIONAL DIFFERENTIAL EQUATIONS

**Author(s):** Skovranek, T (Skovranek, Tomas); Podlubny, I (Podlubny, Igor)

**Edited by:** Varga AK; Vasarhelyi J

**Source:** PROCEEDINGS OF 11TH INTERNATIONAL CARPATHIAN CONTROL CONFERENCE, 2010 **Pages:** 439-442 **Published:** 2010

**Accession Number:** WOS:000396785800100

**Conference Title:** 11th International Carpathian Control Conference (ICCC 2010)

**Conference Date:** MAY 26-28, 2010

**Conference Location:** Univ Miskolc, Dept automat, Eger, HUNGARY

**Conference Sponsors:** Univ Miskolc, Fac Mech Engn & Informat, Dept Automat, VSB Tech Univ Ostrava, Fac Mech Engn, Dept Control Syst & Instrumentat, AGH Univ Sci & Technol, Fac Mech Engn & Robot, Dept Process Control, Univ Craiova, Fac automat Comp & Elect, Dept Automat Control, Tech Univ Kosice, Fac Min Ecol Management & Geotechnol, Inst Control & Informatizat Prod Processes

**Conference Host:** Univ Miskolc, Dept automat

**ISBN:** 978-963-06-9289-2

**Record 23 of 26**

**Title:** IDENTIFICATION OF SYSTEMS OF ARBITRARY REAL ORDER: A NEW METHOD BASED ON SYSTEMS OF FRACTIONAL ORDER DIFFERENTIAL EQUATIONS AND ORTHOGONAL DISTANCE FITTING

**Author(s):** Skovranek, T (Skovranek, Tomas); Despotovic, V (Despotovic, Vladimir)

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

**Source:** PROCEEDINGS OF ASME INTERNATIONAL DESIGN ENGINEERING TECHNICAL CONFERENCES AND COMPUTERS AND INFORMATION IN ENGINEERING CONFERENCE, VOL 4, PTS A-C **Pages:** 1063--+ **Published:** 2010

**Accession Number:** WOS:000290371600116

**Conference Title:** ASME International Design Engineering Technical Conferences/Computers and Information in Engineering Conference

**Conference Date:** AUG 30-SEP 02, 2009

**Conference Location:** San Diego, CA

**Conference Sponsors:** ASME, Design Engn Div, ASME, Comp & Informat Engn Div

**ISBN:** 978-0-7918-4901-9

**Record 24 of 26**

**Title:** MATRIX APPROACH TO DISCRETIZATION OF ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS OF ARBITRARY REAL ORDER: THE MATLAB TOOLBOX

**Author(s):** Podlubny, I (Podlubny, Igor); Skovranek, T (Skovranek, Tomas); Jara, BMV (Jara, Bias M. Vinagre)

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

**Source:** PROCEEDINGS OF ASME INTERNATIONAL DESIGN ENGINEERING TECHNICAL CONFERENCES AND COMPUTERS AND INFORMATION IN ENGINEERING CONFERENCE, VOL 4, PTS A-C **Pages:** 1173-1180 **Published:** 2010

**Accession Number:** WOS:000290371600128

**Conference Title:** 7th International Conference on Multibody Systems, Nonlinear Dynamics and Control

**Conference Date:** AUG 30-SEP 02, 2009

**Conference Location:** San Diego, CA

**Conference Sponsors:** ASME, Design Engn Div, ASME, Comp & Informat Engn Div

**ISBN:** 978-0-7918-4901-9

**Record 25 of 26**

**Title:** Matrix approach to discrete fractional calculus II: Partial fractional differential equations

**Author(s):** Podlubny, I (Podlubny, Igor); Chechkin, A (Chechkin, Aleksei); Skovranek, T (Skovranek, Tomas); Chen, YQ (Chen, YangQuan); Jara, BMV (Vinagre Jara, Blas M.)

**Source:** JOURNAL OF COMPUTATIONAL PHYSICS **Volume:** 228 **Issue:** 8 **Pages:** 3137-3153 **DOI:** 10.1016/j.jcp.2009.01.014 **Published:** MAY 1 2009

**Accession Number:** WOS:000264685000023

**ISSN:** 0021-9991

**eISSN:** 1090-2716

**Record 26 of 26**

**Title:** Matrix Approach to Discretization of Fractional Derivatives and to Solution of Fractional Differential Equations and Their Systems

**Author(s):** Podlubny, I (Podlubny, Igor); Skovranek, T (Skovranek, Tomas); Jara, BMV (Jara, Blas M. Vinagre)

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

**Source:** 2009 IEEE CONFERENCE ON EMERGING TECHNOLOGIES & FACTORY AUTOMATION (EFTA 2009) **Book Series:** IEEE International Conference on Emerging Technologies and Factory Automation-ETFA **Published:** 2009

**Accession Number:** WOS:000355314000179

**Conference Title:** 14th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA)

**Conference Date:** SEP 22-25, 2009

**Conference Location:** Univ Balear Isl, Mallorca, SPAIN

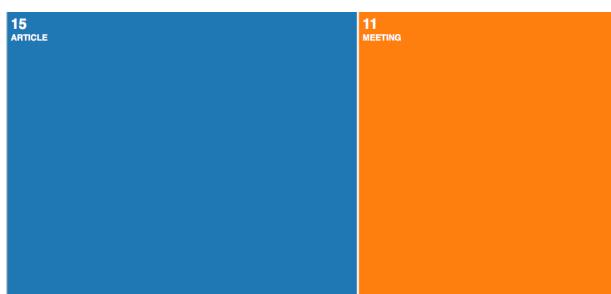
**Conference Sponsors:** IEEE, IEEE Ind Elect Soc, Tech Univ Catalonia, Gobierno Espana, Ministerio Ciencia & Innovac, Univ Empresa, Dept Innovacio, Generalitat Catalunya, Red Electrica Espana, GESA ENDESA, TIRME, IEEE Transact Ind Informat

**Conference Host:** Univ Balear Isl

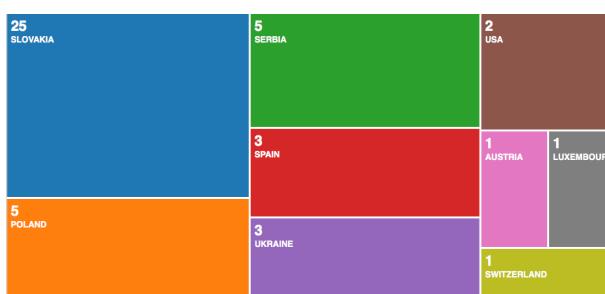
**ISSN:** 1946-0740

**ISBN:** 978-1-4244-2728-4

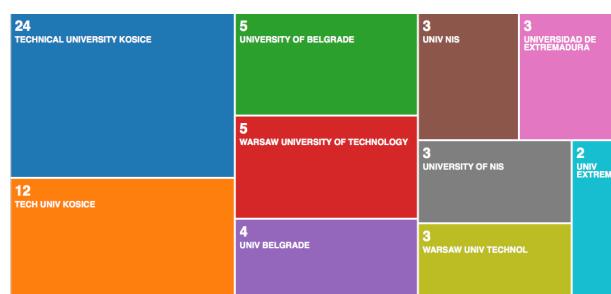
Publikácie v časopisoch (15) / príspevky na konferenciách (11) Jazyk publikácií



Spoluautori (krajina)



Spoluautori (inštitúcia)



V Košiciach 06.10.2020

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Ing. Tomáš Škovránek, PhD.  
Ústav riadenia a informatizácie  
výrobných procesov  
FBERG, TUKE

**Technická univerzita v Košiciach**  
**Fakulta baníctva, ekológie, riadenia a geotechnológií**

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Scopus  
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**Ing. Tomáš Škovránek, PhD.**

**Košice, október 2020**

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(výpis z databázy Scopus 25.09.2020)

1

Podlubny, I., Petrás, I., Škovránek, T.

**Fitting of experimental data using Mittag-Leffler function**

(2012) Proceedings of the 2012 13th International Carpathian Control Conference, ICCC 2012, art. no. 6228711, pp. 578-581. Cited 8 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84864252474&doi=10.1109%2fCarpathianCC.2012.6228711&partnerID=40&md5=dbf1c475e8e59540412de44154107cb8>

DOCUMENT TYPE: Conference Paper

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Skovranek, T., Podlubny, I., Petras, I., Bednarova, D.

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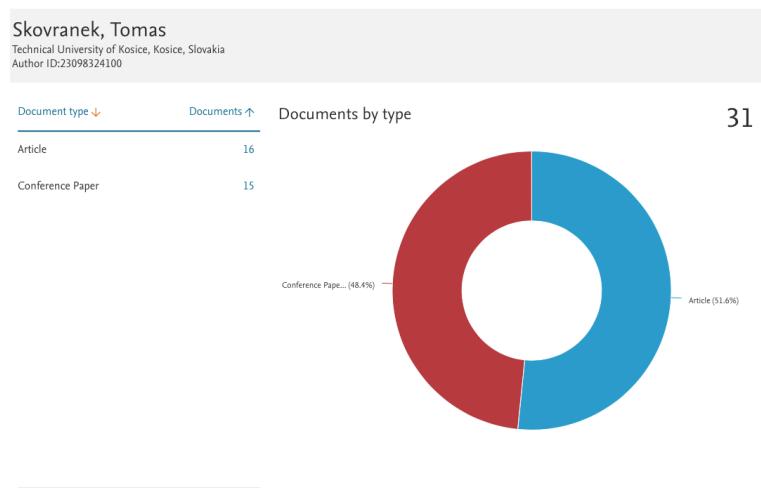
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V Košiciach 06.10.2020

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