



Tieto publikácie vznikli vďaka podpore v rámci **Operačného programu Integrovaná infraštruktúra pre projekt Podpora výskumno-vývojových aktivít Univerzity J. Selyeho v oblasti Digitálne Slovensko a kreatívny priemysel**,

ITMS2014+ kód projektu 313011T504,

spolufinancovaný zo zdrojov **Európskeho fondu regionálneho rozvoja**.

**Podaktivita č. 1:** Strojové videnie a iné metódy rozpoznávania, detekcie a analýzy objektov

**PA1-001**

A. R. Várkonyi-Kóczy, S. Hancsicska, J. Bukor: *Fuzzy Information Measure for Improving HDR Imaging*. In Recent Developments and New Direction in Soft-Computing Foundations and Applications (Studies in Fuzziness and Soft Computing 342). Cham, CH : Springer, pp. 113-126, 2016. ISSN 1434-9922.

**Web of Science, SCOPUS**; podiel prislúchajúci projektu: 33,33%

**PA1-002**

A. R. Várkonyi-Kóczy, J. T. Tóth: *Improving Color Sensing by Applying Fuzzy Information Measurement Based Spectral Power Distribution Filtering*. In Proceedings of the 2016 IEEE International Symposium on Medical Measurements and Applications (MeMeA 2016). IEEE, pp. 1-6, 2016. ISBN 978-146739172-6.

**Web of Science, SCOPUS**; podiel prislúchajúci projektu: 33,33%

**PA1-003**

A. R. Várkonyi-Kóczy, B. Tusor, E. Segatto: *Fuzzy logic supported 3D modeling based orthodontics*. In Proceedings of the 2017 IEEE International Symposium on Medical Measurements and Applications (MeMeA 2017). IEEE, pp. 159-164, 2017. ISBN 978-1-5090-2983-9.

**Web of Science, SCOPUS**; podiel prislúchajúci projektu: 33,33%

**PA1-004**

B. Tusor, A. R. Várkonyi-Kóczy, J. Bukor: *A Fast Line Extraction Method based on Basic Segment Grouping*. In Proceedings of the 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2018). IEEE, pp. 1-6, 2018. ISBN 978-1-5386-2223-0

**SCOPUS**; podiel prislúchajúci projektu: 33,33%

**PA1-005**

A. R. Várkonyi-Kóczy, B. Tusor, J. T. Tóth: *A Fuzzy Shape Extraction Method*. In Recent Developments and the New Direction in Soft-Computing Foundations and Applications (Studies in Fuzziness and Soft Computing 361). Cham, CH : Springer, pp. 383-395, 2018. ISSN 1434-9922.

**SCOPUS**; podiel prislúchajúci projektu: 33,33%

**PA1-006**

A. Dineva, B. Tusor, A. R. Várkonyi-Kóczy, P. Csiba: *Robot Control in ISpace by Applying Weighted Likelihood Functions*. In Recent Advances in Technology Research and Education (Advances in Intelligent Systems and Computing 660). Cham, CH : Springer, pp. 243-248, 2018. ISSN 2194-5357.

**SCOPUS**; podiel prislúchajúci projektu: 33,33%

**PA1-007**

Z. Santa, Z. Kato: *Elastic Alignment of Triangular Surface Meshes*. International Journal of Computer Vision 126, pp. 1220-1244, 2018.

**CCC, Web of Science, SCOPUS**; podiel prislúchajúci projektu: 25%



**PA1-008**

B. Tusor, A. R. Várkonyi-Kóczy, J. Bukor: *A Parallel Fuzzy Filter Network for Pattern Recognition*. In Recent Advances in Technology Research and Education (Lecture Notes in Networks and Systems 53). Cham, CH : Springer, pp. 275-282, 2019. ISSN 2367-3370.

**SCOPUS**; podiel prislúchajúci projektu: 50%

**PA1-009**

B. Nagy, S. Gubo: *Intelligent Space Environment for Ethorobotics*. Recent Innovations in Mechatronics vol. 5, no. 1, pp. 1-6, 2018. ISSN 2064-9622.

podiel prislúchajúci projektu: 50%

**PA1-010**

R. Frohlich, Z. Kato: *Simultaneous Multi-view Relative Pose Estimation and 3D Reconstruction*. In Computer Vision – ACCV 2018 Workshops (Lecture Notes in Computer Science 11367). Cham, CH : Springer, pp. 467-483, 2019. ISSN 0302-9743.

**Web of Science, SCOPUS**; podiel prislúchajúci projektu: 20%

**PA1-011**

H. Abdellali, Z. Kato: *Absolute and Relative Pose Estimation of a Multi-View Camera System*. In Proceedings of the 2018 International Conference on Digital Image Computing: Techniques and Applications (DICTA 2018). IEEE, pp. 1-6, 2019. ISBN 978-153866602-9.

**Web of Science, SCOPUS**; podiel prislúchajúci projektu: 25%

**PA1-012**

B. Tusor, A. R. Várkonyi-Kóczy, J. Bukor: *Parallelized Fuzzy RBF and FHM based Color Filtering for Real-Time Image Processing*. In Proceedings of the 2019 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2019). IEEE, pp. 1-6, 2019. ISBN 978-15-38634-60-8.

**SCOPUS**; podiel prislúchajúci projektu: 33,33%

**PA1-013**

H. Abdellali, R. Frohlich, Z. Kato: *A Direct Least-Squares Solution to Multi-View Absolute and Relative Pose*. In Proceedings of the 2019 International Conference on Computer Vision (ICCV 2019). IEEE, pp. 1-10.

podiel prislúchajúci projektu: 25%

**PA1-014**

H. Abdellali, R. Frohlich, Z. Kato: *Robust Absolute and Relative Pose Estimation of a Central Camera System from 2D-3D Line Correspondences*. In Proceedings of the 2019 International Conference on Computer Vision (ICCV 2019). IEEE, pp. 1-10.

podiel prislúchajúci projektu: 25%

**PA1-015**

B. Tusor, A. R. Várkonyi-Kóczy, J. T. Tóth: *An Indexed Rule-Based Fuzzy Color Filtering Method*. In Recent Advances in Intelligent Engineering (Topics in Intelligent Engineering and Informatics 14). Cham, CH : Springer, pp. 299-307, 2020. ISSN 2193-9411.

podiel prislúchajúci projektu: 50%



**Podaktivita č. 2:** Výskum a vývoj autonómneho bezpilotného prostriedku pre monitorovanie územia a pokročilých vizualizačných systémov

**PA2-001**

A. Molnar, Z. Domozi: *Volume analysis of open-pit mines on the basis of photogrammetry principles*. WSEAS Transactions on Environment and Development 13, pp. 304-312, 2017. ISSN 1790-5079.

**SCOPUS**, podiel prislúchajúci projektu: 100%

**PA2-002**

A. Molnar, Z. Domozi: *Tracking Production Volumes of Open-Pit Mines with Photogrammetry*. In Proceedings of the UKSim-AMSS 11th European Modelling Symposium on Computer Modelling and Simulation, pp. 100-106, 2017. ISBN 978-153861409-9.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 100%

**PA2-003**

R. Frohlich, Z. Kato, A. Tremeau, L. Tamás, S. Shabo, Y. Waksman: *Region based fusion of 3D and 2D visual data for Cultural Heritage objects*. In Proceedings of the International Conference on Pattern Recognition (ICPR 2017), IEEE, pp. 2405-2409, 2017. ISBN 978-1-5090-4848-9.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 14,29%

**PA2-004**

N. Horanyi, Z. Kato: *Multiview Absolute Pose Using 3D-2D Perspective Line Correspondences and Vertical Direction*. In Proceedings of ICCV Workshop on Multiview Relationships in 3D Data (ICCVW-MVR3D), IEEE, pp. 2472-2480, 2017. ISBN 978-1-5386-1034-3.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 20%

**PA2-005**

N. Horanyi, Z. Kato: *Generalized Pose Estimation from Line Correspondences with Known Vertical Direction*. In Proceedings of International Conference on 3D Vision (3DV 2017), IEEE, pp. 1-11, 2017. ISBN 978-1-5386-2611-5.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 20%

**PA2-006**

L. Körmöczi, Z. Kato: *Filling Missing Parts of a 3D Mesh by Fusion of Incomplete 3D Data*. In Advanced Concepts for Intelligent Vision Systems (Lecture Notes in Computer Science 10617). Cham, CH : Springer, pp. 711-722, 2017. ISSN 0302-9743.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 25%

**PA2-007**

R. Frohlich, S. Gubo, A. Lévai, Z. Kato: *3D-2D Data Fusion in Cultural Heritage Applications*. In Heritage Preservation – A Computational Approach. Cham, CH : Springer, pp. 111-130, 2018. ISBN 978-981-10-7220-8.

**SCOPUS**, podiel prislúchajúci projektu: 33,33%

**PA2-008**

A. Dineva, A. R. Várkonyi-Kóczy, V. Piuri, J. K. Tar: *Point Cloud Processing with the Combination of Fuzzy Information Measure and Wavelets*. In Soft Computing Applications (Advances in Intelligent Systems and Computing 633). Cham, CH : Springer, pp. 455-461, 2018. ISSN 2194-5357.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

**PA2-009**



R. Frohlich, L. Tamas, Z. Kato: *Absolute Pose Estimation of Central Cameras Using Planar Regions*. IEEE Transactions on Pattern Analysis and Machine Intelligence (článok publikovaný elektronicky). IEEE, pp. 1-16, 2019. ISSN 1939-3539.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

### Podaktivita č. 3: Aplikácia umelej inteligencie

#### PA3-001

A. R. Várkonyi-Kóczy, B. Tusor, J. T. Tóth: *Active Problem Workspace Reduction with a Fast Fuzzy Classifier for Real-Time Applications*. In Proceedings of the 2016 IEEE International Conference on Systems, Man and Cybernetics (SMC 2016). IEEE, pp. 4423-4428, 2016. ISBN 978-1-5090-1819-2.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

#### PA3-002

A. Dineva, J. K. Tar, A. R. Várkonyi-Kóczy, V. Piuri: *Adaptive Controller using Fuzzy Modeling and Sigmoid Generated Fixed Point Transformation*. In Proceedings of the 8th IEEE International Conference on Intelligent Systems (IS 2016). IEEE, pp. 522-527, 2016. ISBN 978-1-5090-1355-5.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

#### PA3-003

A. Dineva, J. K. Tar, A. R. Várkonyi-Kóczy, V. Piuri: *Sigmoid Generated Fixed Point Transformation Control Scheme for Stabilization of Kapitza's Pendulum System*. In Proceedings of the 20th IEEE Jubilee International Conference on Intelligent Engineering Systems (INES 2016). IEEE, pp. 213-218, 2016. ISBN 978-1-5090-1217-6.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

#### PA3-004

A. Dineva, J. K. Tar, A. R. Várkonyi-Kóczy, V. Piuri: *Adaptive Controller using Fixed Point Transformation for Regulating Propofol Administration Through Wavelet-based Anesthetic Value*. In Proceedings of the 2016 IEEE International Symposium on Medical Measurements and Applications (MeMeA 2016). IEEE, pp. 650-655, 2016. ISBN 978-1-4673-9173-3.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

#### PA3-005

A. R. Várkonyi-Kóczy, B. Tusor, J. T. Tóth: *Classification with Fuzzy Hypermatrices*. In Proceedings of the 2016 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2016). IEEE, pp. 990-995, 2016. ISBN 978-146739220-4.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

#### PA3-006

B. Tusor, G. Simon-Nagy, J. T. Tóth, A. R. Várkonyi-Kóczy: *Personalized Dietary Assistant – An Intelligent Space Application*. In Proceedings of the 21st IEEE International Conference on Intelligent Engineering Systems (INES 2017). IEEE, pp. 27-32, 2017. ISBN 978-147997677-5.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 50%

#### PA3-007

A. R. Várkonyi-Kóczy, B. Tusor, J. T. Tóth: *Robust Variable Length Data Classification with Extended Sequential Fuzzy Indexing Tables*. In 2017 IEEE International Instrumentation and Measurement Technology Conference (I2MTC 2017). IEEE, pp. 1881-1886, 2017. ISBN 978-1-5090-3596-0.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%



**PA3-008**

A. Dineva, A. R. Várkonyi-Kóczy, V. Piuri, J. K. Tar: *Application of Fixed Point Transformation to Classical Model Identification using New Tuning Rule*. In Proceedings of the IEEE 15th International Symposium on Applied Machine Intelligence and Informatics (SAMII 2017), IEEE, pp. 265-270, 2017. ISBN 978-1-5090-5654-5.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

**PA3-009**

G. Simon-Nagy, A. R. Várkonyi-Kóczy: *Distance Metric for Speech Commands of Dysarthric Users in Smart Home Systems*. In Recent Global Research and Education: Technological Challenges (Advances in Intelligent Systems and Computing 519). Cham, CH : Springer, pp. 325-330, 2017. ISSN 2194-5357.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

**PA3-010**

A. Mosavi, A. R. Várkonyi-Kóczy: *Integration of Machine Learning and Optimization for Robot Learning*. In Recent Global Research and Education: Technological Challenges (Advances in Intelligent Systems and Computing 519). Cham, CH : Springer, pp. 349-356, 2017. ISSN 2194-5357.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

**PA3-011**

A. R. Várkonyi-Kóczy, B. Tusor, J. T. Tóth: *Multi-Attribute Classification Method to Solve the Problem of Dimensionality*. In Recent Global Research and Education: Technological Challenges (Advances in Intelligent Systems and Computing 519). Cham, CH : Springer, pp. 403-410, 2017. ISSN 2194-5357.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

**PA3-012**

A. Dineva, A. R. Várkonyi-Kóczy, V. Piuri, J. K. Tar: *Performance Enhancement in Fuzzy Logic Controller Using Robust Fixed Point Transformation*. In Recent Global Research and Education: Technological Challenges (Advances in Intelligent Systems and Computing 519). Cham, CH : Springer, pp. 411-418, 2017. ISSN 2194-5357.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

**PA3-013**

T. Kmet, M. Kmetova: *Bezier curve parameterization methods for solving optimal control problems of SIR model*. In Theory and Practice of Natural Computing (Lecture Notes in Computer Science 10687). Cham, CH : Springer, pp. 100-110, 2017. ISSN 0302-9743.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 100%

**PA3-014**

A. Mosavi, R. Benkreif, A. R. Várkonyi-Kóczy: *Comparison of Euler-Bernoulli and Timoshenko Beam Equations for Railway System Dynamics*. In Recent Advances in Technology Research and Education (Advances in Intelligent Systems and Computing 660). Cham, CH : Springer, pp. 32-40, 2018. ISSN 2194-5357.

**SCOPUS**, podiel prislúchajúci projektu: 50%

**PA3-015**

A. Mosavi, T. Rabczuk, A. R. Várkonyi-Kóczy: *Reviewing the Novel Machine Learning Tools for Materials Design*. In Recent Advances in Technology Research and Education (Advances in Intelligent Systems and Computing 660). Cham, CH : Springer, pp. 50-58, 2018. ISSN 2194-5357.

**SCOPUS**, podiel prislúchajúci projektu: 50%

**PA3-016**



M. Baranyai, A. Mosavi, I. Vajda, A. R. Várkonyi-Kóczy: *Optimal Design of Electrical Machines: State of the Art Survey*. In Recent Advances in Technology Research and Education (Advances in Intelligent Systems and Computing 660). Cham, CH : Springer, pp. 209-216, 2018. ISSN 2194-5357.

**SCOPUS**, podiel prislúchajúci projektu: 50%

#### PA3-017

A. Mosavi, R. Rituraj, A. R. Várkonyi-Kóczy: *Review on the Usage of the Multiobjective Optimization Package of modeFrontier in the Energy Sector*. In Recent Advances in Technology Research and Education (Advances in Intelligent Systems and Computing 660). Cham, CH : Springer, pp. 217-224, 2018. ISSN 2194-5357.

**SCOPUS**, podiel prislúchajúci projektu: 50%

#### PA3-018

A. R. Várkonyi-Kóczy, B. Tusor, J. T. Tóth: *A Fuzzy Data Structure for Variable Length Data and Missing Value Classification*. In Recent Advances in Technology Research and Education (Advances in Intelligent Systems and Computing 660). Cham, CH : Springer, pp. 297-304, 2018. ISSN 2194-5357.

**SCOPUS**, podiel prislúchajúci projektu: 33,33%

#### PA3-019

A. Dineva, B. Tusor, I. Vajda: *Interval Type-2 Fuzzy System in Personalized Driving Cycle Forecasting*. AIP Conference Proceedings 1982, pp. 020027-1- 020027-6, 2018. ISBN 978-07-35416-98-7.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

#### PA3-020

M. Torabi, A. Mosavi, P. Ozturk, A. R. Várkonyi-Kóczy, I. Vajda: *A Hybrid Machine Learning Approach for Daily Prediction of Solar Radiation*. In Recent Advances in Technology Research and Education (Lecture Notes in Networks and Systems 53). Cham, CH : Springer, pp. 266-274, 2019. ISSN 2367-3370.

**SCOPUS**, podiel prislúchajúci projektu: 25%

#### PA3-021

B. Tusor, A. R. Várkonyi-Kóczy, J. Bukor: *An ISpace-based Dietary Advisor*. In Proceedings of the 2018 IEEE International Symposium on Medical Measurements and Applications (MeMeA 2018). IEEE, pp. 1035-1040, 2018. ISBN 978-1-5386-3393-9.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 50%

#### PA3-022

A. Dineva, J. K. Tar, A. R. Várkonyi-Kóczy, J. T. Tóth, V. Piuri: *Non-conventional Control Design by Sigmoid Generated Fixed Point Transformation Using Fuzzy Approximation*. In Practical Issues of Intelligent Innovations (Studies in Systems, Decision and Control 140). Cham, CH : Springer, pp. 1-15, 2018. ISSN 2198-4182.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

#### PA3-023

T. Kmet, M. Kmetova: *Radial Basis Function Networks Simulation of Age-Structure Population*. In Theory and Practice of Natural Computing (Lecture Notes in Computer Science 11324). Cham, CH : Springer, pp. 414-425, 2018. ISSN 0302-9743.

**SCOPUS**, podiel prislúchajúci projektu: 100%

#### PA3-024

B. Tusor, J. T. Tóth, A. R. Várkonyi-Kóczy: *Functional Dependency Detection with Sequential Indexing Tables*. In Proceedings of the 23rd IEEE International Conference on Intelligent Engineering Systems (INES 2019). IEEE, pp. 1-5, 2019. ISBN 978-1-7281-1213-8.

podiel prislúchajúci projektu: 100%



**PA3-025**

S. Shamshirband, M. Hadipoor, A. Baghban, A. Mosavi, A. R. Várkonyi-Kóczy, J. Bukor: *Developing an ANFIS-PSO Model to Predict Mercury Emissions in Combustion Flue Gases*. Mathematics vol. 7, no. 10, pp. 1-16, 2019. ISSN 2227-7390

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 50%

**PA3-026**

F. Aram, E. Solgi, E. H. Garcia, A. Mosavi, A. R. Várkonyi-Kóczy: *The Cooling Effect of Large-Scale Urban Parks on Surrounding Area Thermal Comfort*. Energies vol. 12, no. 20, pp. 1-21, 2019. ISSN 1996-1073.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 50%

**PA3-027**

B. Tumor, J. T. Tóth, A. R. Várkonyi-Kóczy: *Approximate Functional Dependency Mining with Sequential Indexing Tables*. In Proceedings of the IEEE 19th International Symposium on Computational Intelligence and Informatics (CINTI 2019). IEEE, pp. 1-6, 2019.

podiel prislúchajúci projektu: 100%

**PA3-028**

M. Z. Asghar, F. Subhan, M. Imran, F. M. Kundi, S. Shamshirband, A. Mosavi, P. Csiba, A. R. Várkonyi-Kóczy: *Performance Evaluation of Supervised Machine Learning Techniques for Efficient Detection of Emotions from Online Content*. Preprints.org, 2019.

podiel prislúchajúci projektu: 100%

**PA3-029**

S. Ardabili, A. Mosavi, A. Mahmoudi, T. M. Gundoshmian, S. Nosratabadi, A. R. Várkonyi-Kóczy: *Modelling Temperature Variation of Mushroom Growing Hall Using Artificial Neural Networks*. In Engineering for Sustainable Future (Lecture Notes in Networks and Systems 101). Cham, CH : Springer, pp. 33-45, 2020. ISSN 2367-3370.

**SCOPUS**, podiel prislúchajúci projektu: 100%

**PA3-030**

S. Ardabili, A. Mosavi, M. Dehghani, A. R. Várkonyi-Kóczy: *Deep Learning and Machine Learning in Hydrological Processes Climate Change and Earth Systems a Systematic Review*. In Engineering for Sustainable Future (Lecture Notes in Networks and Systems 101). Cham, CH : Springer, pp. 52-62, 2020. ISSN 2367-3370.

**SCOPUS**, podiel prislúchajúci projektu: 100%

**PA3-031**

S. Ardabili, A. Mosavi, A. R. Várkonyi-Kóczy: *List of Deep Learning Models*. In Engineering for Sustainable Future (Lecture Notes in Networks and Systems 101). Cham, CH : Springer, pp. 202-214, 2020. ISSN 2367-3370.

**SCOPUS**, podiel prislúchajúci projektu: 100%

**PA3-032**

S. Ardabili, A. Mosavi, A. R. Várkonyi-Kóczy: *Advances in Machine Learning Modeling Reviewing Hybrid and Ensemble Methods*. In Engineering for Sustainable Future (Lecture Notes in Networks and Systems 101). Cham, CH : Springer, pp. 215-227, 2020. ISSN 2367-3370.

**SCOPUS**, podiel prislúchajúci projektu: 100%

**PA3-033**

S. Ardabili, A. Mosavi, A. R. Várkonyi-Kóczy: *Prediction of Combine Harvester Performance Using Hybrid Machine Learning Modeling and Response Surface Methodology*. In Engineering for Sustainable Future (Lecture Notes in Networks and Systems 101). Cham, CH : Springer, pp. 345-360, 2020. ISSN 2367-3370.

**SCOPUS**, podiel prislúchajúci projektu: 100%



**PA3-034**

S. Ardabili, A. Mosavi, A. R. Várkonyi-Kóczy: *Urban Train Soil-Structure Interaction Modeling and Analysis*. In Engineering for Sustainable Future (Lecture Notes in Networks and Systems 101). Cham, CH : Springer, pp. 361-381, 2020. ISSN 2367-3370.

**SCOPUS**, podiel prislúchajúci projektu: 100%

**PA3-035**

A. Bemani, A. Baghban, S. Shamshirband, A. Mosavi, P. Csiba, A. R. Várkonyi-Kóczy: *Applying ANN, ANFIS and LSSVM Models for Estimation of Acid Solvent Solubility in Supercritical CO<sub>2</sub>*.

podiel prislúchajúci projektu: 100%

**PA3-036**

B. Tusor, J. T. Tóth, A. R. Várkonyi-Kóczy: *SIT-based Functional Dependency Extraction*. Acta Polytechnica Hungarica, vol. 16, no. 10, pp. 65-81, 2019. ISSN 1785-8860.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 100%

**Podaktivita č. 4:** Služby a riešenia v oblasti spracovania veľkých objemov dát a rýchle spracovanie dát

**PA4-001**

G. Gombos, A. Kiss, G. Racz: *Spar(k)ql: SPARQL evaluation method on Spark GraphX*. In Proceedings of the IEEE 4th International Conference on Future Internet of Things and Cloud Workshops (FiCloud 2016). IEEE, pp. 188-193, 2016. ISBN 978-150903946-3

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 50%

**PA4-002**

S. Szénási: *Variable Sized Planar Sliding Window Technique for Searching Accident Hot Spots*. In Proceedings of the 16th International Multidisciplinary Scientific Geoconference (SGEM 2016). pp. 957-964, 2016. ISBN 978-1-5108-2990-9.

**Web of Science**, podiel prislúchajúci projektu: 50%

**PA4-003**

K. Hajdú-Szücs, S. Laki, A. Kiss: *A Profile-Based Fast Port Scan Detection Method*. In Computational Collective Intelligence part 1 (Lecture Notes in Artificial Intelligence 10448). Cham, CH : Springer, pp. 401-410, 2017. ISBN 978-3-319-67073-7.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

**PA4-004**

S. Mousavi, A. Mosavi, A. R. Várkonyi-Kóczy, G. Fazekas: *Dynamic Resource Allocation in Cloud Computing*. Acta Polytechnica Hungarica vol. 14, no. 4, pp. 83-104, 2017. ISSN 1785-8860.

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 33,33%

**PA4-005**

A. Kiss, G. Gombos: *P-Spar(k)ql: SPARQL Evaluation Method on Spark GraphX with Parallel Query Plan*. In Proceedings of IEEE 5th International Conference on Future Internet of Things and Cloud (FiCloud 2017). IEEE, pp. 212-219, 2017. ISBN 978-1-5386-2075-5

**Web of Science, SCOPUS**, podiel prislúchajúci projektu: 50%





**PA4-006**

A. Mosavi, A. Lopez, A. R. Várkonyi-Kóczy: *Industrial Application of Big Data: State of the Art Survey*. In Recent Advances in Technology Research and Education (Advances in Intelligent Systems and Computing 660). Cham, CH : Springer, pp. 225-232, 2018. ISSN 2194-5357.

**SCOPUS**, podiel prislúchajúci projektu: 50%

**PA4-007**

S. Mousavi, A. Mosavi, A. R. Várkonyi-Kóczy: *A Load Balancing Algorithm for Resource Allocation in Cloud Computing*. In Recent Advances in Technology Research and Education (Advances in Intelligent Systems and Computing 660). Cham, CH : Springer, pp. 289-296, 2018. ISSN 2194-5357.

**SCOPUS**, podiel prislúchajúci projektu 50%

**PA4-008**

S. Ardabili, A. Mosavi, A. R. Várkonyi-Kóczy: *Systematic Review of Deep Learning and Machine Learning Models in Biofuels Research*. In Engineering for Sustainable Future (Lecture Notes in Networks and Systems 101). Cham, CH : Springer, pp. 19-32, 2020. ISSN 2367-3370.

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