

ИМЕ И ПРЕЗИМЕ:	Miroslav Hudec, University of Economics in Bratislava, Slovakia
РАДОВИ У МЕЂУНАРОДНИМ ЧАСОПИСИМА	<p>Vučetić M., Hudec M. (2018) A fuzzy query engine for suggesting the products based on conformance and asymmetric conjunction. <i>Expert Systems with Applications</i>, 101(1): 143-158.</p> <p>Hudec M., Praženka D. (2016) Collecting and managing fuzzy data in statistical relational databases. <i>Statistical Journal of the IAOS: Journal of the International association for Official Statistics</i>, 32:245-255.</p> <p>Hudec M., Vučetić M. (2015) Some issues of fuzzy querying in relational databases. <i>Kybernetika</i>, 51(6): 994-1022.</p> <p>Hudec M. (2014) Linguistic summaries applied on statistics – case of municipal statistics. <i>Austrian Journal of Statistics. Special Issue: Official Statistics and Survey Methodology</i>, 43(1): 63-75.</p> <p>Vucetic M., Hudec M., Vujošević M. (2013) A new method for computing fuzzy functional dependencies in relational database systems. <i>Expert Systems with Applications</i>, 40(7): 2738–2745.</p> <p>Hudec M., Juriová, J. (2013) Perspectives of data mining in improving data collection processes in official statistics. <i>Metodološki zvezki - Advances in Methodology and Statistics</i>, 10(2): 65-81.</p> <p>Hudec M. (2013) Fuzzy database queries in official statistics: perspective of using linguistic terms in query conditions. <i>Statistical journal of the IAOS: Journal of the International association for Official Statistics</i>, 29(4): 315-323.</p> <p>Hudec M. (2013) Flexible data queries. <i>Acta informatica Pragensia</i>, 2(2): 25-38.</p> <p>Hudec M., Vujošević M. (2012) Integration of data selection and classification by fuzzy logic. <i>Expert Systems with Applications</i>, 39(10): 8817–8823.</p> <p>Hudec M. (2011) Fuzzy improvement of the SQL. <i>Yugoslav Journal of Operations Research</i>, 21(2): 239-251.</p> <p>Hudec, M. (2011) What could fuzzy logic bring to statistical information systems? <i>Statistika</i>, 48(1): 58-70.</p> <p>Hudec M., Vujošević M. (2010) A fuzzy system for municipalities classification. <i>Central European Journal of Operations Research</i>, 18(2): 171-180.</p> <p>Hudec M. (2009) An approach to fuzzy database querying, analysis and realisation. <i>Computer Science and Information Systems</i>, 6(2): 127-140.</p> <p>Hudec M., Büchler P. (2009) Metadata and website design for statistical data dissemination. <i>Management</i>, 52: 23-30.</p>

**РАДОВИ САОПШТЕНИ НА МЕЂУН.
СКУПОВИМА**

Rakovská E., Hudec, M. (2018) Two approaches for the computational model for software usability in practice. In: 3rd Conference on Information Technology, Systems Research and Computational Physics (ITSRCP 2018), Cracow, 2 - 5 July.

Hudec M. (2018) Quality measures of quantified linguistic summaries aggregated by the uninorm connective for dimensional data structures. In: XIII Balkan Conference on Operational Research (BALCOR), Belgrade, 25 – 28 May.

Hudec M., Brokešová Z. (2017) Mining and Linguistically Interpreting Data from Questionnaires - Influence of Financial Literacy to Behaviour. In: 6th International Conference on Data Science, Technology and Applications (DATA 2017), Madrid, 24 – 26 July.

Hudec M. (2017). Disseminating statistical data by short quantified sentences of natural language. In: New Techniques and Technologies for Statistics (NTTS 2017), European Commission, Brussels, 14 – 16 March.

Hudec M. (2016) Constraints and wishes in quantified queries merged by asymmetric conjunction. In: First International Conference Fuzzy Management Methods (ICFMsquare 2016), Fribourg, 29 – 30 September.

Hudec M. (2016) Examining questionnaires by fuzzy logic approaches. In: 43th International Symposium on Operational Research (SYM-OP-IS 2016), Tara, 20 – 23 September.

Hudec M. (2015). Merging validity and coverage for measuring quality of data summaries. In: Congress on Information Technology, Computational and Experimental Physics (CITCEP 2015), Cracow, 18 – 20 December.

Vučetić M., Hudec M. (2015). A relational database role in handling fuzziness of real world. In: 23rd IEEE Telecommunications Forum (TELFOR 2015), Belgrade, 24 – 25 November, pp. 894-897.

Hudec M. (2015) Linguistically summarizing hierarchical data. In: 16th IEEE International Symposium on Computational Intelligence, Budapest, 19 – 21 November, pp. 141-145.

Hudec M. (2015) Flexible recommender system based on the conformance and t-norm functions. In: 16th International Conference on Applied Informatics, Economics, Statistics and Accounting (AIESA 2015), Bratislava, 5 – 6 November.

Hudec M. (2015) Storing and analysing fuzzy data from surveys by relational databases and fuzzy logic approaches. In: XXV-th IEEE International Conference on Information, Communication and Automation Technologies, Sarajevo, 28 – 31 October.

Hudec M. (2015). Managing fuzziness of real world in business informatics. In: 11th International

	<p>Conference Strategic Management and its Support by Information Systems, Uherské Hradiště, 21–22 May.</p> <p>Hudec M (2014) Fuzzy data in traditional relational databases. In: 12th Symposium on Neural Network Applications in Electrical Engineering (IEEE - Neurel 2014), Belgrade, 25 – 27 November.</p> <p>Balbi S., Hudec M., Juriová J., Stawinoga A. (2014) Alternative sources in official data collection. In: Fourth International Scientific Videoconference of Scientists and PhD Students or Candidates, Bratislava, 19 November.</p> <p>Hudec M., Vučetić M., Vujošević M. (2014) Synergy of linguistic summaries and fuzzy functional dependencies for mining knowledge in the data. In: 18th International Conference on System Theory, Control and Computing (IEEE - ICSTCC 2014), Sinaia, 17 – 19 October.</p> <p>Hudec M. (2013) SDMX standard for online data dissemination. In: Third International Scientific Videoconference of Scientists and PhD. Students or Candidates, Bratislava, 20 November.</p> <p>Hudec M, Torres Van Grinsven V. (2013) Business' participants motivation in official surveys by fuzzy logic. In: 1st Eurasian Multidisciplinary Forum, (EMF 2013), Tbilisi, 24 – 26 October.</p> <p>Hudec M. (2013) Applicability of linguistic summaries. In: XI Balkan Conference on Operational Research (BALCOR 2013), Belgrade, 7– 11 September, pp. 133-140.</p> <p>Hudec M. (2013) Improvement of data collection and dissemination by fuzzy logic. In: Joint UNECE/Eurostat/OECD Meeting on the Management of Statistical Information Systems (MSIS), Paris and Bangkok, 22 – 24 April.</p> <p>Hudec M., Sudzina F. (2012) Construction of fuzzy sets and applying aggregation operators for fuzzy queries. In: 14th International Conference on Enterprise Information Systems (ICEIS 2012). Wroclaw, 28 June – 1 July.</p> <p>Hudec M. (2012). Dynamically modelling of fuzzy sets for flexible data retrieval. In: 46th Scientific Meeting of the Italian Statistical Society, Rome, 20 – 22 June (invited to he solicited session).</p> <p>Hudec M. (2009) Soft computing techniques for statistical databases, In: Joint UNECE/Eurostat/OECD Meeting on the Management of Statistical Information Systems (MSIS 2009), Oslo, 18 – 20 May.</p> <p>Hudec M. (2008) Fuzzy structured query language (SQL) for statistical databases In: Joint UNECE/Eurostat/OECD Meeting on the Management of statistical information systems (MSIS 2008), Luxembourg, 7 – 9 April.</p> <p>Hudec M., Vujošević M. (2007) Integration of a fuzzy system and an information system for the</p>
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	<p>territorial units ranking. In: 9th International Conference on Enterprise Information Systems (ICEIS 2007), Funchal, 13 – 16 June.</p> <p>Hudec M., Büchler P. (2007) Presentation of population and housing census in Slovakia on the website, In: Joint UNECE/Eurostat/OECD Meeting on the Management of Statistical Information Systems (MSIS 2007), UN, Geneva, 8 – 10 May.</p> <p>Hudec M. (2006) Practical experience towards designing websites for presentation of statistical data In: Joint UNECE/Eurostat/OECD Meeting on the Management of Statistical Information Systems (MSIS 2006), Sofia, 21 – 23 June.</p> <p>Hudec M., Vujošević M. (2005) Fuzzy systems and neuro-fuzzy systems for the municipalities classification. In: EUROFUSE Anniversary Workshop on “Fuzzy for Better”, Beograd, 15 – 18 June.</p> <p>Hudec M., Vujošević M., Priehradníková L. (2005). Municipalities classification based on fuzzy rules. In: Joint UNECE/Eurostat/OECD Meeting on the Management of Statistical Information Systems (MSIS 2005), Bratislava, 18 – 20 April.</p> <p>Priehradníková L., Benčíč A., Hudec M. (2005) Information system for support of regional development in the Slovak Republic (INFOREG), In: Joint UNECE/Eurostat/OECD Meeting on the Management of Statistical Information Systems (MSIS 2005), Bratislava, 18 – 20 April.</p> <p>Benčíč A, Hudec M. (2002) MOŠ/MIS – Urban and municipal statistics project and information system of the Slovak Republic. In: XXIX Symposium on operations research (SYM-OP-IS 2002). Tara, 9 – 12 October.</p>
РЕЗУЛТАТИ У РАЗВОЈУ ОБРАЗОВНО-НАУЧНЕ ОБЛАСТИ	<p>My student E. Bednářová working on her bachelor thesis and I were submitted manuscript <i>Perspectives for Disseminating Statistical Data by Short Quantified Sentences of Natural Language</i> for the special issue of Journal of Official Statistics (on the SCI list with impact factor 0.662). The manuscript is currently in the second round of review (minor revision is required).</p> <p>Student M. Psotny under my supervision obtained the second place in the student competition in research and development at the Faculty of Economic Informatics in 2015 with topic <i>Tailored motivation of workers by fuzzy inference</i>.</p> <p>Launched new course <i>Fuzzy Logic for Business Informatics</i>, developed its curriculum and written a textbook <i>Fuzzy logic in Business Informatics</i> in Slovak in 2015 (for master students on the Information Management programme). Currently, preparing teaching materials for course Informatics II (relational databases and examples in MS Access) for bachelor students of Business Informatics and Managerial Decisions programmes (expected</p>

	<p>in autumn 2018).</p> <p>Co-organizer and lecturer of the Knowledge Management Technologies course for foreign Erasmus students at University of Economics in Bratislava (in English).</p> <p>During the winter semester of the 2016/2017 academic year, teachers were evaluated by students according to three categories: quality of teaching, feeling whether teacher is an expert in the field and cooperation with students. I was highly ranked: 1.5 points for each category (on [1, 6] scale, where 1 is the highest quality) for the course Fuzzy logic for Business Informatics. Furthermore, the frequency of students' participation (lectures are not obligatory) was very high (5.5 of 6, where 6 is the highest participation). Regarding the other courses in Slovak where I participate, my evaluations were bit lower (2.75, 2.75 and 2.0, respectively for Informatics I and 2.0, 2.3 and 2.0, respectively for Business Intelligence). This evaluation was a valuable feedback, which revealed my weak points. I have been working on improvements ever since. The new results are not available yet.</p> <p>Experiences from the Erasmus teacher mobility stays in Spain, Iceland, Montenegro and Finland.</p>
<p>ЦИТИРАНOST НАУЧНИХ РЕЗУЛТАТА</p>	<p>Hudec M. (2009) An approach to fuzzy database querying, analysis and realisation. <i>Computer Science and Information Systems</i>, 6(2): 127-140.</p> <p>Cited in:</p> <p>Małysiak-Mrozek B., Mazurkiewicz H., Mrozek D. (2019) Incorporating Fuzzy Logic in Object-Relational Mapping Layer for Flexible Medical Screenings. In: Bembenik R., Skonieczny Ł., Protaziuk G., Kryszkiewicz M., Rybinski H. (Eds.) <i>Intelligent Methods and Big Data in Industrial Applications. Studies in Big Data</i>, Vol. 40. Springer, Cham</p> <p>Ďuračiová R., Faixová-Chalachanová J. (2018). Fuzzy Spatio-Temporal Querying the PostgreSQL/PostGIS Database for Multiple Criteria Decision Making. In: Ivan I., Horák J., Inspektor T. (Eds.) <i>Dynamics in GIScience. GIS OSTRAVA 2017. Lecture Notes in Geoinformation and Cartography</i>. Springer, Cham.</p> <p>Małysiak-Mrozek B., Mazurkiewicz H., Mrozek D. (2017) Extending the Doctrine ORM Framework Towards Fuzzy Processing of Data. In: Kozielski S., Mrozek D., Kasprowski P., Małysiak-Mrozek B., Kostrzewa D. (Eds.) <i>Beyond Databases, Architectures and Structures. Towards Efficient Solutions for Data Analysis and Knowledge Representation. BDAS 2017. Communications in Computer and Information Science</i>, Vol 716. Springer,</p>

	<p>Cham.</p> <p>Smolka P., Bradac V. (2017). Fuzzy queries above relational database. In: International conference of computational methods in sciences and engineering 2017 (ICCMSE-2017), Thessaloniki.</p> <p>Березький О. М., Піцун О. Й., Вербовий С. О., Дацко Т. В. (2017) Розроблення реляційної бази даних інтелектуальної системи автоматизованої мікроскопії. <i>Науковий вісник НЛТУ України (Scientific Bulletin of UNFU)</i>, 27(5): 125-129.</p> <p>Myszkorowski K. (2015) Multiargument Relationships in Possibilistic Databases. In: Kozielski S., Mrozek D., Kasprowski P., Małysiak-Mrozek B., Kostrzewa D. (eds) Beyond Databases, Architectures and Structures. BDAS 2015. Communications in Computer and Information Science, vol 521. Springer, Cham.</p> <p>Waheed R. (2015) <i>Designing Fuzzy Spatial Database</i>. Master Theseis, Punjab University College of Information Technology.</p> <p>Sivasankari P., Ravichandran K.S., Krishan Kumar R. (2015) Clubbing of fuzzy relational data sets into heterogeneous cluster bags using heuristic multi domain fuzzy clustering technique. <i>International Journal of Applied Engineering Research</i>, 10(8):20629-20644.</p> <p>Darwish S.M., Mabrouk T.F., Mokhtar Y.F. (2014) Enriching vague queries by type-2 fuzzy orderings . <i>Lecture Notes on Information Theory</i> 2(2): 177-185.</p> <p>Shora A.R., Alam A. (2014) Data Dependencies and Normalization of Intuitionistic Fuzzy Databases. In: Kumar Kundu M., Mohapatra D., Konar A., Chakraborty A. (eds) Advanced Computing, Networking and Informatics- Volume 1. Smart Innovation, Systems and Technologies, vol 27. Springer, Cham.</p> <p>Ďuračiová R. (2014) Querying uncertain data in geospatial object-relational databases using SQL and fuzzy sets. <i>Slovak Journal of Civil Engineering</i>, 21(4):1-12.</p> <p>Ďuračiová R. (2014) Implementation of the selected principles of the fuzzy set theory into spatial database system and GIS. In: 14th GeoConference on Informatics, Geoinformatics and Remote Sensing (SEGM 2014), Albena, pp. 627-634.</p> <p>Moises S.A., Pereira S. (2013) Uma semântica difusa para consultas flexíveis em bases de dados relacionais. <i>Boletim Técnico da Faculdade de Tecnologia de São Paulo</i>, 35: 45-50.</p> <p>Hidayat E.N., Gernowo R., Sugiharto A. (2013) Perancangan sistem pendukung keputusan</p>
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penerimaan taruna baru menggunakan basis data fuzzy - studi kasus di akpelni semarang. *Prosiding Seminar Nasional Sains Dan Teknologi Fakultas Teknik*, 1(1): 130-135.

Perović A., Takači A., Škrbić S. (2012) Formalising PFSQL queries using ŁPI fuzzy logic. *Mathematical Structures in Computer Science*, 22(3): 533-547.

Thammareddy P., Kaur D. (2012) Database querying using fuzzy semantics. In: The 2012 International Conference on Information and Knowledge Engineering, Las Vegas, pp.41-46.

Jain N., Shukla s. (2012). Fuzzy Databases Using Extended Fuzzy C-Means Clustering. *International Journal of Engineering Research and Applications (IJERA)*, 2(3): 1444-1451.

Ghumman W.A., Munoz-Hernandez S. (2010). Formalization for natural language fuzzy queries and crisp multicriteria queries. In: 9th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases (AIKED '10), Cambridge, pp. 352-363.

Hudec M., Vujošević M. (2012) Integration of data selection and classification by fuzzy logic. *Expert Systems with Applications*, 39(10): 8817–8823.

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ALJallad N.T., Xing X., Khairalla M.A., Mohammed A. (2017) A novel data Classification approach using fuzzy logic. In: International Symposium on Computer Science and Artificial Intelligence (ISCSAI), Shenzhen, 15 - 16 December.

Rodríguez A., Ortega F., Concepción R. (2016) A method for the evaluation of risk in IT projects. *Expert Systems with Applications*, 45: 273-285.

Relich M., Bzdrya K. (2015) Knowledge discovery in enterprise databases for forecasting new product Success. Volume 9375 of the series Lecture Notes in Computer Science, Springer, pp 121-129.

Xiao, H. Zhou, J. Xiao, J. Fu W., Xia X., Zhang W. (2014) Shaft orbit identification for rotating machinery based on statistical fuzzy vector chain code and support vector machine. *Journal of Vibroengineering*, 16(2): 713-724.

Xiao, H. Zhou, J. Xiao, J. Fu W., Xia X., Zhang W. (2014) Identification of vibration-speed

curve for hydroelectric generator unit using statistical fuzzy vector chain code and support vector machine. *Journal of Risk and Reliability*, 228(3): 291-300.

Sekar K.R., Ravichandran K.S., Jangiti S., Sethuraman J. (2014) Reliable payment gateway component selection using fuzzy and prism classifiers. *ARPJ Journal of Engineering and Applied Sciences*, 9(12): 2840-2853.

Patra A. (2012) *Neuro-fuzzy models for classification of complex data using PSO algorithm*. Master of Science Thesis, Jadavpur University.

Hudec M., Vujošević M. (2010) A fuzzy system for municipalities classification. *Central European Journal of Operations Research*, 18(2): 171-180.

Cited in:

Marsal-Llacuna M-L., López-Ibáñez M-B. (2014) Smart urban planning: designing urban land use from urban time use. *Journal of Urban Technology*, 21(1): 1466-1853.

Zajec M., Kofjač D., Roblek M. (2013) Eliminating knowledge bottlenecks using fuzzy logic. *Organizacija*, 46(5): 206–213.

Marsal M-L. (2013) *Smarter urban planning through a citizen-based approach*. The Smart urban planning method. PhD Disertation, Universitat de Girona.

Hájek P. (2012) Credit rating analysis using adaptive fuzzy rule-based systems: an industry-specific approach. *Central European Journal of Operations Research*, 20(3): 421-434.

Sabo K., Scitovski R., Vazler I. (2011) Grupiranje podataka: klasteri. *Osječki Matematički List*, 10(2): 149-178

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Hudec M. (2011) Fuzzy improvement of the SQL. *Yugoslav Journal of Operations Research*, 21(2): 239-251.

Cited in:

BAŞ A., Çetinyokuş T. (2015) Yerleşim alanı dışı baz istasyonlarının belirlenmesi için bulanık sorgu tabanlı karar destek modeli. *Journal of the Faculty of Engineering and*

	<p>Architecture of Gazi University 30(4): 0-0.</p> <p>Mohammed A.H., Gadallah, A.M., Hefny H.A. (2014) Fuzzy query approach for crops planting dates adaptation with climate changes. In: <i>9th IEEE International Conference on Informatics and Systems</i>, Cairo, 15 – 17 December, pp. DEKM-52-DEKM-60.</p> <p>Gadallah A.M., Mohamed A.H., Hefny H.A. (2014) Fuzzy Query Approach for Crops Planting Dates Optimization Based on Climate Data. In: Hassanien A.E., Tolba M.F., Taher Azar A. (eds) <i>Advanced Machine Learning Technologies and Applications. AMLTA 2014. Communications in Computer and Information Science</i>, Vol. 488. Springer, Cham.</p> <p>Agarwal A., Aggarwal A., Agarwal A. (2017) An Approach for Augmenting Selection Operators of SQL Queries using Skyline and Fuzzy-Logic Operators. <i>Procedia Computer Science</i>, 115: 14-21.</p> <p>Vucetic M., Hudec M., Vujošević M. (2013) A new method for computing fuzzy functional dependencies in relational database systems. <i>Expert Systems with Applications</i>, 40(7): 2738–2745.</p> <p>Cited in:</p> <p>Myszkorowski K. (2015) Multiargument relationships in possibilistic databases. In: <i>Beyond Databases, Architectures and Structures, Series Communications in Computer and Information Science</i>, Volume 521, Springer, pp 147-156.</p> <p>Shora A.R., Alam A. (2014) Data dependencies and normalization of intuitionistic fuzzy databases. In: <i>Advanced Computing, Networking and Informatics- Volume 1, Series Smart Innovation, Systems and Technologies</i>, Volume 27, Springer, pp. 309-318.</p> <p>Hudec M. (2015) Linguistically summarizing hierarchical data. In: 16th IEEE International Symposium on Computational Intelligence, Budapest, 19 – 21 November, pp. 141-145.</p> <p>Cited in:</p> <p>Boran F. E., Akay D., Yager R.R. (2016) An overview of methods for linguistic summarization with fuzzy sets. <i>Expert Systems with Applications</i>, 61:356–377.</p>
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		<p>Hudec M. (2015) Storing and analysing fuzzy data from surveys by relational databases and fuzzy logic approaches. In: XXV-th IEEE International Conference on Information, Communication and Automation Technologies, Sarajevo, 28 – 31 October, pp. 220-225.</p> <p>Cited in:</p> <p>Boran F. E., Akay D., Yager R.R. (2016) An overview of methods for linguistic summarization with fuzzy sets. <i>Expert Systems with Applications</i>, 61:356–377.</p> <p>Benčič A, Hudec M. (2002) MOŠ/MIS – Urban and municipal statistics project and information system of the Slovak Republic. In: XXIX Symposium on operations research (SYM-OP-IS 2002). Tara, 9 – 12 October.</p> <p>Cited in:</p> <p>Sinha S. (2012). Improved methodology for accessing industry based microbial database using fuzzy relational algebra and proposing a microbial fuzzy database model. <i>Advances in Electrical and Computer Engineering</i>, 1(7): 2277-9043.</p>
МЕЂУНАРОДНА РЕПУТАЦИЈА	ГОСТ УРЕДНИК МЕЂУНАРОДНОГ ЧАСОПИСА	
	ПРЕДСЕДАВАО МЕЂУНАРОДНИМ НАУЧНИМ КОНФЕРЕНЦИЈАМА	<p>Co-organizer of the special session <i>Fuzziness in Smart Cities</i> for the 21st International Conference on Enterprise Information Systems (ICEIS) 2019.</p> <p>Session chair of international conferences:</p> <ul style="list-style-type: none"> • 16th IEEE International Symposium on Computational Intelligence, Budapest, 19 – 21 November 2015 • 16th International Conference on Applied Informatics, Economics, Statistics and Accounting (AIESA 2015), Bratislava, 5 - 6 November 2015 • 1st Eurasian Multidisciplinary Forum, (EMF 2013), Tbilisi, 24 – 26 October 2013
	ЧЛАНСТВО У УРЕЂИВАЧКИМ ОДБОРИМА МЕЂУНАРОДНИХ НАУЧНИХ ЧАСОПИСА	<p>An editorial board member of the <i>Applied Soft Computing</i> journal (published by Elsevier), on the SCI list with Impact factor 3.907.</p> <p>An editorial board member of the <i>International Journal of Interactive Multimedia and</i></p>

		<i>Artificial Intelligence</i> , on the Emerging Sources Citation Index.
	АУТОР МЕЂУНАРОДНЕ МОНОГРАФИЈЕ	Hudec M. (2016) <i>Fuzziness in Information Systems - How to Deal with Crisp and Fuzzy Data in Selection, Classification, and Summarization</i> . Springer International Publishing Switzerland.
НАПОМЕНА		<p>Awards</p> <p>Awarded by the Slovak Literary Fund for the year 2016 in the category of natural and technical sciences for the monograph <i>Fuzziness in Information Systems - How to Deal with Crisp and Fuzzy Data in Selection, Classification, and Summarization</i>, Springer International Publishing Switzerland.</p> <p>Certificate of Outstanding Contribution in Reviewing, issued by <i>Knowledge-Based Systems</i> (published by Elsevier), on the SCI list with Impact factor 4.396, awarded in June 2017.</p> <p>Courses</p> <p>The certificate of two-semester course Pedagogical Minimum from the Department of Pedagogy at the University of Economics in Bratislava, Slovakia, 2015.</p> <p>Language Course: Effective representation of Slovakia on EU meetings, issued by Interlingua, Bratislava, Slovakia, 2006.</p> <p>Reviewing</p> <p>Reviewing for journals</p> <ul style="list-style-type: none"> • Information Sciences (published by Elsevier), on the SCI list with Impact factor 4.305 • Yugoslav Journal of Operations Research (Yujor) <p>Reviewing for conferences</p> <ul style="list-style-type: none"> • International Conference on Enterprise Information Systems (ICEIS) organized by INSTICC • International Conference on Intelligent Software Methodologies, Tools, and Techniques (SOMET) organized by Intelligent Software Systems (Fujita Laboratory) • Regional Symposium on Operational Research (SYM-OP-IS) organized by Serbian Scientific Institutions

- International Conference on Applied Informatics, Economics, Statistics and Accounting (AIESA) organized by the University of Economics in Bratislava and the Slovak Business Informatics Association

Reviewing for the book series Fuzzy Management Methods published by Springer.

Invited talks

A keynote speech *Linguistic summaries from the data: Issues and perspectives* at the XLIV SYMOPIS (Regional Symposium of Operational Research organized by Serbian scientific institutions), Zlatibor, September 2017.

Tutorial *Linguistic summaries and their quality* at the First International Conference on Fuzzy Management Methods (ICFMsquare 2016), Fribourg, invited by Professor Andreas Meier, September 2016 (Proceedings published by Springer).

Talk *Dynamically modelling of fuzzy sets for flexible data retrieval* in the solicited session at the 46th Meeting of the Italian Statistical Society, Rome, invited by Professor Simona Balbi, June 2012.

Talk *Data selection and classification by fuzzy logic* at the Vienna University of Technology, Department of Statistics and Probability Theory, invited by Professor Reinhard Viertl, November 2010.

Book chapters

Hudec M. (in press) Possibilities for linguistic summaries in cognitive cities. In: Portmann E., Seising R.M., Tabacchi M.E., Habenstein A. (Eds.), *Designing Cognitive Cities: Linking Citizens to Computational Intelligence to Make Efficient, Sustainable and Resilient Cities a Reality*. Springer (Foreword by late Prof. L.A. Zadeh).

Hudec M and Brokešova Z. (2018) Mining and Linguistically Interpreting Summaries from Surveyed Data Related to Financial Literacy and Behaviour. In: Filipe J., Bernardino J., Quix C. (Eds.) *Data Management Technologies and Applications. Communications in Computer and Information Science*, Vol. 814. Springer, Cham, pp. 67-83. *Extended paper from the DATA 2017 conference.*

Hudec M. (2017) Merging validity and coverage for measuring quality of data summaries. In: Kulczycki P., Kóczy L.T., Mesiar R., Kacprzyk J. (Eds.), *Information Technology and Computational Physics, Advances in Intelligent Systems and Computing*, Vol. 462. Springer Cham,

pp. 71-85. Extended paper from the CITCEP 2015 conference.

Hudec M., Vučetić M., Vujošević M (2014) Comparison of linguistic summaries and fuzzy functional dependencies related to data mining. In Alam S., Dobbie G., Sing Koh, Y., ur Rehman S. (Eds.), *Biologically-Inspired Techniques for Knowledge Discovery and Data Mining*. Information Science Reference, Hershey, pp. 174-203.

Recommendation letters

Prof. Enrique Herrera-Viedma, Department of Computer Science and Artificial Intelligence, University of Granada, Spain, viedma@decsai.ugr.es, from 2018.

Emeritus Prof. Reinhard Viertl, Vienna University of Technology, Austria, r.viertl@tuwien.ac.at, from 2018.

Prof. Radko Mesiar, Faculty of Civil Engineering, Slovak University of Technology, Slovakia, mesiar@math.sk, from 2018.

Prof. ETH Andreas Meier, Department of Informatics, University of Fribourg, Switzerland, andreas.meier@unifr.ch, from 2017.

Prof. Mirko Vujošević, Faculty of Organizational Sciences, University of Belgrade, Serbia, mirkov@fon.bg.ac.rs, from 2014.

Dr. Deirdre Giesen, Division Methodology and Development, Statistics Netherlands (Centraal Bureau voor de Statistiek), the Netherlands, d.giesen@cbs.nl, from 2013.

Prof. Simona Balbi, Department of Economic and Statistical Sciences, University of Naples Federico II, Italy, sb@unina.it, from 2013.

Dušan Praženka PhD, Deputy Director, INFOSTAT – Institute of Informatics and Statistics, Slovakia, prazenka@infostat.sk, from 2012.

Prof. Slobodan Krčevinac, Faculty of Organizational Sciences, University of Belgrade, Serbia, krca@fon.bg.ac.rs, from 1999.

Visits

Erasmus teacher mobility stays: University of Turku, Finland in April 2018, University Donja Gorica, Montenegro in October 2016 and May 2017, University of Akureyri, Iceland in September 2015 and University of Granada, Spain in February 2014.

Short research stay at Vienna University of Technology, Department of Statistics and Probability Theory, June 2014, supported by the Austria-Slovakia fund for the short term research visits.

Research projects

Team member in *Big data analytics as a tool for increasing the competitiveness of enterprises and supporting informed decisions*, National project granted by the Ministry of Education, Science, Research and Sport of the Slovak Republic, ongoing.

Team member in *Economic and social aspects of the information asymmetry in the insurance market*, National project granted by the Ministry of Education, Science, Research and Sport of the Slovak Republic, 2015 - 2017.

Leader of two working packages and researcher in *Blue- Enterprise and Trade Statistics*, Grant agreement no.: 244767, Seventh Framework Programme - theme 8, 2010 - 2013.

Team member in *SSNet on SDMX II*, Grant project supported by the Eurostat grant scheme ESSNet., 2011 - 2012

Team member in *Information Systems for Support of Regional Development*, National project granted by the Ministry of Construction and Regional Development of the Slovak Republic, 2003 - 2010.

Team member in *Demographic data from population and housing censuses in Slovakia*, National project granted by the Ministry of Education, Science, Research and Sport of the Slovak Republic, 2009.