CURRICULUM VITAE

Prof.dr.habil. Ioan Dzitac
Bachelor in Mathematics
PhD in Information Sciences
Habilitation in Economic Informatics

Actual Jobs of Prof.dr.habil. Ioan DZITAC
1. Professor at Aurel Vlaicu University of Arad [Since 2009, ioan.dzitac@uav.ro]
2. Professor at Agora University of Oradea [Since 2017, idzitac@univagora.ro]
3. PhD Supervisor at University of Craiova [Since 2019, Field: Economic Informatics]
4. Editor-in-Chief of International J. of Computers Communications & Control [ijccc@univagora.ro]
5. Rector of Agora University of Oradea [Since 2012, rector@univagora.ro]

Biosketch: Ioan Dzitac received his B.Sc.(eq.M.Sc.) in Mathematics (1977) and Ph.D. in Information Sciences (2002) from Babes-Bolyai University of Cluj - Napoca. In 2019 he has defended his Habilitation Thesis "Soft Computing for Decision Making" at Alexandru Ioan Cuza University of Iasi. He is a mathematics and information sciences professor at Agora University of Oradea (since 2017) and at Aurel Vlaicu University of Arad (since 2009). Also he is a PhD supervisor at University of Craiova. He was Rector of Agora University of Oradea in period 2012-2016 and was re-elected for a new mandate (2016-2020). He was an Adjunct Professor at University of Chinese Academy of Sciences - Beijing, China (2013-2016) and since 2016 is an Advisory Board Member at Graduate School of Management of Technology, Hoseo University, South Korea. He was in managerial positions, such as: Director of Math & Informatics Department (2004-2005), Head of IT Chair (2005-2008), Director of R&D Center(2009-2017), and Rector (2012-present).

His current research interests include different aspects of artificial intelligence, soft computing and applications of fuzzy logic in economy (decision making, quantitative management, qualitative management, e-learning platforms management etc.).
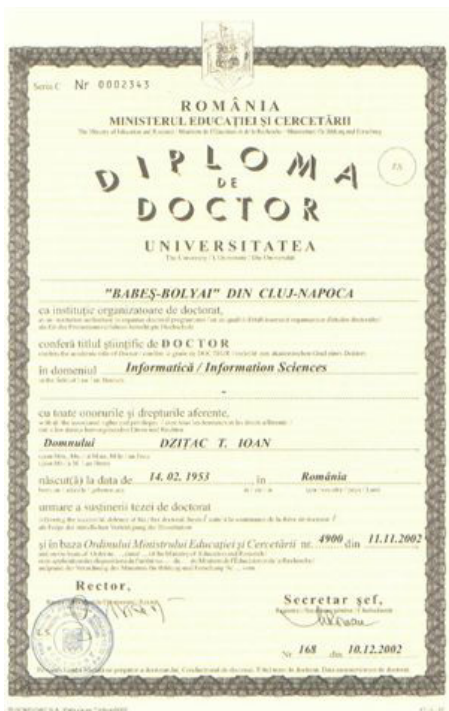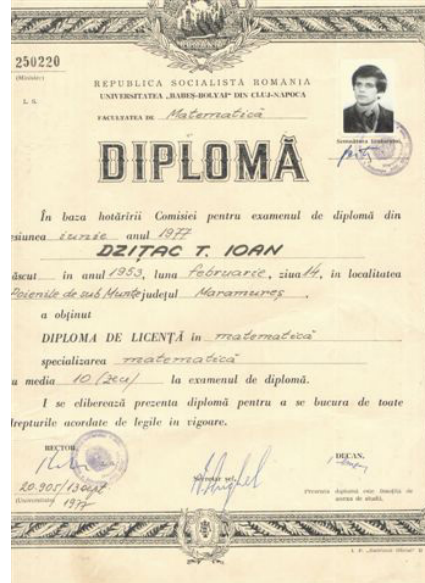
He is co-founder and an Editor-in-Chief of an ISI SCI Expanded quoted journal (2006), International Journal of Computers Communications & Control (nominee by Elsevier for Journal Excellence AwardScopus Awards Romania 2015) and member in Editorial Board of 11 scientific journals. Also he is co-founder and General Chair of International Conference on Computers Communications and Control and he was member of the Program Committee of more than 70 international conferences.

He is a Senior Member of IEEE (since 2011), Member in Publication Committee of International Academy of Information Technology and Quantitative Management (IAITQM, since 2014), and other professional organizations (ROMAI, SRAIT, SSMAR, RNG-ISCB etc.). He was an invited speaker and/or invited special sessions' organizer and chair in China (2013: Beijing, Suzhou and Chengdu, 2015: Dalian, 2016: Beijing), India (2014: Madurai, 2017: Delhi), Russia (2014: Moscow), Brazil (2015: Rio), Lithuania (2015: Druskininkai), South Korea(2016: Asan).

He has published 3 books, 12 courses and materials for students, 6conference proceedings and more than 80 scientific papers in journals and conferences proceedings (over 40 in ISI Web of Science indexed journals with over 210 citations, h-index = 10). In Google Scholar he has over 520 citations.

He was included among the 100 Romanian computer scientists from all over the past 100 years in the volume of "One Hundred Romanian Scientists in Theoretical Computer Science", Romanian Academy Publishing House, 2018, as well as in the volume "Romanian Civilization - Information Science and Technology in Romania", which appeared with occasion of the 100th anniversary of the Great Union, also in the Academy Publishing House.

Education

1. School No.1, Repedea, Maramures County (MM), Romania (1960-1968).
2. High School Dragos Voda, Sighetu Marmatiei, MM County, Romania (1968-1972).
3. Babes-Bolyai University of Cluj - Napoca, (1972-1977), Diploma: B.Sc. in Math. (1977).
4. Babes-Bolyai University of Cluj - Napoca, Diploma: Ph.D. in Information Sci. (2002).
5. Alexandru Ioan Cuza University of Iasi, Certificate of Habilitation (2019).

Professional Experience

Teaching Experience

1. 1977-1991: Teacher of Mathematics in Elementary & High Schools in Oradea and Bihor County.
2. 1991-2003: Lecturer of Mathematics, University of Oradea.
3. 2003-2005: Associate Professor of Mathematics and Informatics, University of Oradea.
4. 2005-2009: Associate Professor of Mathematics and Informatics, Agora University of Oradea.
5. 2009-present: Professor of Information Sciences, Aurel Vlaicu University of Arad.
6. 2010-2011: Adjunct Professor of Informatics, University of Craiova.
7. 2013-2016: Adjunct Professor of the School of Management, University of Chinese Academy of Sciences, China.

Managerial Experience

1. 2004-2005: Director of the Mathematics and Informatics Department, University of Oradea.
2. 2005-2007: Head of the of Economics Department, Agora University of Oradea.
3. 2009-present: Director of the "Mathematical Models & Information Systems" R&D Center , Aurel Vlaicu University of Arad.
4. 2009-present: Academic Director of the "Applied Informatics in Science, Technology and Economy" Master's Program, Aurel Vlaicu University of Arad.
5. 2011-01.10.2013: Director of the Communication and Transparency Department, Aurel Vlaicu University of Arad.
6. 2012-present: Rector of the Agora University of Oradea.

Member of Professional Organizations

1. 2011-present: IEEE Senior Member.
3. 2011-present: IEEE Computational Intelligence Society Member/ Romania Section.
4. 2012-present: IAITQM- International Academy of Information Technology and Quantitative Management (member in Publication Committee).

5. 1995-present: ROMAI: Romanian Society of Applied and Industrial Mathematics (Vice - President: 1996-2011).
6. 2011-2013: SRAIT-Romanian Society of Automation and Technical Informatics- Arad Branch (Secretary: 2010-2013).
7. 2011-present: RNG-ISCB: Romanian National Group of International Society for Clinical Biostatistics.
8. 2008-present: SSMAR - Scientific Society of Management of Romania.

Member in Editorial Boards of Journals

1. International Journal of Computers Communications and Control, ISSN 1841-9836, Agora University of Oradea, Romania (Editor in Chief).
2. Broad Research in Artificial Intelligence and Neuroscience (BRAIN), ISSN 2067-3957, EduSoft Publishing (emerging in ISI Web of Science).
3. Mathematics, Informatics, Physics Series - Bulletin of PG University of Ploiesti (BMIF: Theory and Applications in Mathematics and Computer Science, ISSN 1224-4899.
4. Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science, ISSN 1584 - 9198, Aurel Vlaicu University, Arad, Romania.
5. Journal of System and Management Sciences, ISSN:1816-6075, Beijing Jiaotong University, China.
6. Theory and Applications of Mathematics & Computer Science, ISSN 2067-2764, Aurel Vlaicu University, Arad, Romania (Associate Editor)
7. Business, Management and Education, ISSN 2029-7491, Vilnius Gediminas Technical University, Lithuania.
8. Journal of Systemics, Cybernetics and Informatics, The International Institute of Informatics and Systemics, US: JSCI, Member in EB
9. Financial Innovation (ISI), Springer: Member in EB
10. Technological and Economic Development of Economy(ISI Web of Science), Taylor & Francis: Member in EB
11. Baltic Journal of Modern Computing (ISI Web of Science): Member in EB.
12. International Journal of Information Technology & Decision Making, World Scientific, Singapore, Member in EB.

Scientific Activity

Research Interest

1. Artificial Intelligence; 2. Applications of Fuzzy Logic; 3. Distributed Systems; 4. Information Systems Management (ERP Systems); 5. Soft computing in Decision Making.

Invited Lectures

Prof. Ioan Dzitac was an invited speaker and/or invited special sessions' organizer and chair in China (2013: Beijing, Suzhou and Chengdu, 2015: Dalian, 2016: Beijing), India (2014: Madurai, 2017: Delhi), Russia (2014: Moscow), Brazil (2015: Rio), Lithuania (2015: Druskininkai), South Korea (2016: Asan).

Organizer of Conferences and Special Sessions

1. Co-Founder an General Chair of the International Conference on Computers Communications and Control, ICCCC2006, ICCCC2008, ICCCC2010, ICCCC2012, ICCC2014, ICCCC2016, ICCCC2018, ICCCC2020.
2. Organizer and Chair of a Special Session at the International Conference in Information Technology and Quantitative Management (ITQM): 2013-2019.

Selected Awards

1. 1988: "Distinguished Teacher" Title (from Romanian Ministry of Education).
2. 2003: "Prize for Young Scientist" (from ROMAI Society).
3. 2008: "Professor of 2008 Year" (from Senate of Agora University of Oradea).
4. 2009: "Gradation of Merit" (from Senate of Aurel Vlaicu University of Arad).
5. 2010-present: "Excellency Diploma" (from Senate of Aurel Vlaicu University of Arad: 2010, 2016, 2017).

Meeting with Father of Fuzzy Logic: Prof. Lotfi A. Zadeh

Fuzzy logic theory and the concept of soft computing were created by Lotfi A. Zadeh (1921-2017), one of the most influential scientist in computer science (Zadeh's papers were cited over 200,000 times).

I had the great privilege to meet (2007) and collaborate (2008, 2011, 2015) within generously professor Lotfi A. Zadeh. At his death I have dedicate him the paper *Fuzzy Logic Is Not Fuzzy: World-renowned Computer Scientist Lotfi A. Zadeh*, that deal about his life and work. So, I consider that Prof. Zadeh was my mentor.

ICCCC2008: Lotfi A. Zadeh & Ioan Dzitac

In 1965 Lotfi A. Zadeh published *Fuzzy Sets*, his pioneering and controversial paper. The departure of fuzzy logic from the classical Aristotelian Logic, with a tradition of over two millennia, several mathematicians and scientists has made fuzzy logic an object of controversy, skepticism and hostility, that now reaches over 101,000 citations. All Zadehs papers were cited over 200,000 times.

Starting from the ideas presented in that paper, Zadeh founded later the Fuzzy Logic theory, that proved to have useful applications, from consumer to industrial intelligent products.

In 2007 I had the great privilege to meet a world-renowned scientist Lotfi A. Zadeh and since then my scientific interest has been focused to Soft Computing Methods in Fuzzy Environments.

My collaboration with Lotfi A. Zadeh (1921-2017) has been started in 2008. He has been an invited speaker at my conference ICCCC 2008, International Conference on Computers Communications and Control, an ISI indexed conference, founded and chaired by myself, and co-editor of a collective volume "From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence".

List of work

PhD Thesis

Ioan Dzitac, *Procedee de calcul paralel şi distribuit în rezolvarea unor ecuaţii operatoriale*, Universitatea Babes-Bolyai din Cluj - Napoca, 2002.

Habilitation Thesis

Ioan Dzitac, *Soft Computing for Decision Making*, Universitatea Alexandru Ioan Cuza din Iaşi, 2019.

Volume published in Ed. House of Romanian Academy, 2008

Books

a. Published in editing houses recognized by CNCS (with ISBN)

1. Benta, D.; Dzitac, I., Baze de date conomie. Lucrari practice de laborator, Ed. Universitatii Agora, ISBN 978-973-1807-50-8, 111 p. , 2013.

2. Dzitac, I., Inteligenta artificiala, Ed. Univ. Aurel Vlaicu, Arad, ISBN 978-973-752-292-4, 182 p., 2008.

3. Dzitac, I., Parallel and Distributed Methods for Algebraic Systems Resolution, CCC Publications, Agora University Publishing House, ISBN (10) 973-87960-8-3 ; ISBN (13)978-973-87960-8-9, 150 p., 2006.

4. Dzitac, I.; Moldovan, G., Sisteme distribuite: Modele informatice ,Ed. Univ. Agora, ISBN (10) 973-87960-9-1 ; ISBN (13)978-973-87960-9-6, 146 p., 2006.

5. Moldovan, G.; Dzitac, I., Sisteme distribuite: Modele matematice, Ed. Univ. Agora, ISBN (10) 973-88205-0-2 ; ISBN (13)978-973-88205-0-0, 170 p., 2006.

6. Dzitac, I., Matematica economica , Ed. Univ. Agora, ISBN 973-86723-2-5, 292 p., 2005.

7. Dzitac, I., Mang, I.; Sadoveanu, G., Didactica informaticii, Ed. Univ. din Oradea, ISBN 973-049-5, 526 p., 2003.

8. Oros, G.; Catas, A.; Oros, G.I.; Dzitac, I., Dzitac, S.; Functii complexe - Culegere de probleme, Ed. Univ. din Oradea, ISBN 973-613-396-6 (2003), 236 p., 2003.

9. Dzitac, I., Laslo, E., Programarea paralela utiliz PVM, Ed. Univ. din Oradea, ISBN 973-613-409-1, 144 p, 2003.

10. Dzitac, I., Calcul paralel , Ed. Univ. din Oradea, ISBN 973-049-5, , 397 p, 2001.

11. Dzitac, I., Bede, B.; Dzitac, S.; Madar, A.; Oros, G.I., Analiza matematica: Calcul diferential, Ed. Univ. din Oradea, ISBN 973-613-050-9, 207 p., 2001.

12. Dzitac, I., Seremi, L.; Dzitac, S.; Catas, A.; Oros, G.I., Matematici speciale- Elemente de algebreometrie analitica, Probabilitati, Ed. Univ. din Oradea, ISBN 973-613-044-4, 247 p., 2001.

13. Dzitac, I., Bica, A.; Madar, A.; Stoica, I., Matematici speciale-Functii complexe, Ecuatii diferentiale, Ed. Univ. din Oradea, ISBN 973-8083-33-8, 41 p., 2000.

14. Dzitac, I., Turcus, G.; Tripe, A.; Catas, A., Metoda Monte Carlo - Hazard si determinism, Ed. Univ. din Oradea, ISBN 973-8193-07-9, 198 p., 2000.

15. Dzitac, I., Madar, A., Analiza matematica -Calcul integral Ed. Univ. din Oradea, ISBN 973-8083-03-6 , 174 p., 2000.

16. Dzitac, I., Pantea, M.; Dzitac, S., Ghid metodic - Algebra de liceu- clasa IX-a, Ed. Univ. din Oradea, ISBN973-8193-01 - X, 178 p., 2000.

b. Proceedings

1. Zadeh, L.A.; Tufis, D.; Filip, F.G.; Dzitac, I., (eds.), From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence, Editing House of Romanian Academy, ISBN: 978-973-27-1678-6, 2008, 268 p.;

2. Dzitac, I.,, Maghiar, T.; Popescu, C. (eds.), Proceedings of International Conference on Computers and Communications (ICCC 2004), 27-29 May, 2004, Baile Felix- Oradea, Ed. Univ. din Oradea, ISBN 973-613-542 - X (2004), 434 p.

3. Maghiar, T.; Georgescu, A.; Balaj, M.; Dzitac, I., Mang, I. (eds.), Proceedings of the 11th Conference on applied and industrial mathematics (CAIM 2003), Vol. 1, Ed. Univ. din Oradea, ISBN 973-613-330-3 (gen.), ISBN 973-613-331-1(2003), 248 p.

4. Maghiar, T.; Georgescu, A.; Balaj, M.; Dzitac, I., Mang, I. (eds.), Proceedings of the 11th Conference on Applied and industrial Mathematics (CAIM 2003), Vol. 2, Ed.Univ. din Oradea, ISBN 973-613-330-3 (gen.), ISBN 973-613-332 - X (2003), 180 p.

c. Chapters in books

1. Dzitac ,S., Felea, I., Dzitac, I., Vesselenyi, T., Neuro-Fuzzy Modeling of Event Prediction using Time Intervals as Independent Variables, Chapter in Zadeh L. A. et all, From Natural Language to Soft Computing: New Paradigms in Articial Intelligence, ISBN 978-973-27-1678-6, Ed. House of Romanian Academy, pp. 84-99, 2008.

Selected papers indexed in ISI Web of Science in the last 5 years (2014-2019)

Bibliography

[1] Albu, R.D.; Dzitac, I.; Popentiu-Vladicescu, F.; Naghiu, I.M. (2014), Input Projection Algorithms Influence in Prediction and Optimization of QoS Accuracy, *International Journal of Computers Communications & Control*, 9(2), 132-139, 2014, **Article WOS:000332352800001, IF = 1.585 in JCR2018**.

[2] Albu, R.D.; Gordan, C.E.; Dzitac, I. (2019). Anti-Spoofing Techniques in Face Recognition, an Ensemble Based Approach, *Studies in Informatics and Control*, 28(1), 111-118, 2019, **Article WOS:000463440000012, IF = 1.347 in JCR2018**.

[3] Andonie, R.; Dzitac, I. (2010). How to Write a Good Paper in Computer Science and How Will It Be Measured by ISI Web of Knowledge, *International Journal of Computers Communications & Control*, 5(4), 432-446, 2010, **Article WOS:000282600700002, IF = 1.585 in JCR2018**.

[4] Benta, D.; Bologa, G.; Dzitac, S.; Dzitac, I. (2015). University Level Learning and Teaching via E-Learning Platforms, 3nd International Conference on Information Technology and Quantitative Management, ITQM 2015 - Rio de Janeiro, *Procedia Computer Science*, 55C, 21366-1373, 2015, **Proceedings Paper WOS:000360101400156**.

[5] Benta, D.; Bologa, G.; Dzitac, I. (2014). E-learning Platforms in Higher Education. Case Study, 3nd International Conference on Information Technology and Quantitative Management, ITQM 2014 - Moscow, *Procedia Computer Science*, 31, 1170-1176, 2014, **Proceedings Paper WOS:000360713800135**.

[6] Butaci, C.; Dzitac, S.; Dzitac, I.; Bologa, G. (2017). Prudent decisions to estimate the risk of loss in insurance, *Technological and Economic Development of Economy*, 23(2), 428-440, 2017, **Article WOS:000396823900010, IF = 4.344 in JCR2018**.

[7] Dzitac, I. (2015). The Fuzzification of Classical Structures: A General View, *International Journal of Computers Communications & Control*, 10(6), 772-788, 2015, **Article WOS:000364346600002, IF = 1.585 in JCR2018**.

[8] Dzitac I., Filip F.G., Manolescu M.J., Fuzzy Logic Is Not Fuzzy: World-renowned Computer Scientist Lotfi A. Zadeh, *International Journal of Computers Communications & Control*, 12(6), 748-789, 2017, **Article WOS:000417397400001, IF = 1.585 in JCR2018**.

[9] Dzitac, I.(2015). Impact of Membrane Computing and P Systems in ISI WoS. Celebrating the 65th Birthday of Gheorghe Paun, *International Journal of Computers Communications & Control*, 10(5), 617-626, 2015, **Article WOS:000358340900001, IF = 1.585 in JCR2018**.

[10] Dzitac, I.; Filip, F.G.; Manolescu, M.J; Dzitac, S; Oros, H; Dzitac, D. (2018). 2018 7th International Conference on Computers Communications and Control (ICCCC): Preface, 2018 7th International Conference on Computers Communications and Control (ICCCC), Proc. Of, IEEEXplore, Pages: 1-1, 2018, **Proceedings Paper WOS:000440474000001**.

[11] Felea, I.; Dzitac, S.; Vesselenyi, T.; Dzitac, I. (2014). Decision Support Model for Production Disturbance Estimation, *International Journal of Information Technology & Decision Making*, World Scientific Publishing Company, 13(3), 623-647, 2014. **Article WOS:00033641110009, IF = 2.862 in JCR2018**.

[12] Kuantama, E.; Tarca, I.; Dzitac, S.; Dzitac, I.; Tarca, R. (2018). Flight Stability Analysis of a Symmetrically-Structured Quadcopter Based on Thrust Data Logger Information. *Symmetry - Basel*, 2018, 10, 291, **Article WOS:000440215400061, IF = 2.143 in JCR2018**. Kuantama, E.; Tarca, R.; Dzitac, S.; Dzitac, I.; Vesselenyi, T.; Tarca, I. (2019). The Design and Experimental Development of Air Scanning Using a Sniffer Quadcopter, Sensors 2019, 19(18), 3849; https://doi.org/10.3390/s19183849, **Article WOS:000489187800035, IF = 3.031 in JCR2018**.

[13] Liu, H.; Dzitac, I.; Guo, S. (2018). Factors Space and its Relationship with Formal Conceptual Analysis: A General View, *International Journal of Computers Communications & Control*, 13 (1), 83-98, 2018, **Article WOS:000425895400007, IF = 1.585 in JCR2018**.

[14] Liu, H.; Dzitac, I.; Guo, S. (2018). Reduction of Conditional Factors in Causal Analysis, *International Journal of Computers Communications & Control*, 13 (3), 383-390, 2018, **Article WOS:000433242700006, IF = 1.585 in JCR2018**.

[15] Moldovan, O.G.; Dzitac, S.; Moga, I.; Vesselenyi, T.; Dzitac, I. (2017). Tool-Wear Analysis Using Image Processing of the Tool Flank, *Symmetry - Basel*, 9 (12), 296, 2017 **Article WOS:000419227200008, IF = 2.143 in JCR2018**.

[16] Nădăban, S.; Dzitac, I. (2014). Atomic Decompositions of Fuzzy Normed Linear Spaces for Wavelet Applications, *Informatica*, 25(4), 643-662, 2014, **Article WOS:000347513200007, IF = 1.928 in JCR2018**.

[17] Nădăban, S.; Dzitac, I. (2016). Some Properties and Applications of Fuzzy Quasi-Pseudo-Metric Spaces, *Informatica*, 27(1), 141-150, 2016, **Article WOS:000373315100007, IF = 1.928 in JCR2018** .

[18] Nădăban, S.; Dzitac, S.; Dzitac, I. (2016). Fuzzy TOPSIS: A General View, *Procedia Computer Science*, 91, 823-831, 2016, **Proceedings Paper WOS:000387683300098**.

[19] Nădăban, S.; Dzitac, I. (2014). Special Types of Fuzzy Relations, *Procedia Computer Science*, 31, 552-557, 2014, **Proceedings Paper WOS:000360713800063**.

[20] Negulescu, A.E.; Negulescu, S.C.; Dzitac, I. (2017). Balancing Between Exploration and Exploitation in ACO, *International Journal of Computers Communications & Control*, 12 (2), 265-275, 2017, **Article WOS:000395506500009, IF = 1.585 in JCR2018**.

[21] Noje, D.; Tarca, R.; Dzitac, I.; Pop, N. (2019). IoT Devices Signals Processing based on Multi-dimensional Shepard Local Approximation Operators in Riesz MV-algebras, *International Journal of Computers Communications & Control*, 14 (1), 56-62, 2019, **Article WOS:000458616200004, IF = 1.585 in JCR2018**.

[22] Noje, D.; Dzitac, I.; Pop, N.; Tarca, R. (2019). IoT Devices Signals Processing based on Shepard Local Approximation Operators Defined in Riesz MV-algebras, *Informatica*, 14 (1), 56-62, 2019, In print.

[23] Stanojevic, B.; Dzitac, I.; Dzitac, S. (2015). On the ratio of fuzzy numbers exact membership function computation and applications to decision making, *Technological and Economic Development of Economy*, 21(5), 815-832, 2015, **Article WOS:000361984500009, IF = 4.344 in JCR2018**.

Wang, X.X.; Zeshui Xu, Z.S.; Dzitac, I.(2019). Bibliometric Analysis on Research Trends of International Journal of Computers Communications & Control, *International Journal of Computers Communications & Control*, 14 (5), 711-732, 2019, **Article WOS:00489058800007, IF = 1.585 in JCR2018**.

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