"AUREL VLAICU" UNIVERSITY OF ARAD  
FACULTY OF EXACT SCIENCES  
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE  
  
Professor habil. Ioan DZIȚAC, PhD  
Bachelor in Mathematics (UBB Cluj Napoca -1977)  
Doctor in Informatics (UBB Cluj Napoca -2002)  
Habilitation in Economic Informatics (UAIC Iași -2019)

**LIST OF WORKS**

*Last updated: 12.09.2020*

1. **PhD/Habilitation thesis**

1. **Dzitac, I.,** *Procedee de calcul paralel și distribuit în rezolvarea unor ecuații operatoriale*, PhD Thesis, ”Babeș-Bolyai” University of Cluj Napoca, 2002.

2. **Dzitac, I.,** *Soft computing for decision making***,** Habilitation thesis,”Alexandru Ioan Cuza” University of Iași, 2019.

1. **Books published in Romania**
   1. Bența, D.; **Dzitac, I.,** Baze de date în economie. Lucrări practice de laborator, Ed. Universității Agora,  ISBN   978-973-1807-50-8, 111 p. , 2013.
   2. **Dzitac, I.,** Inteligența artificială, Ed. Univ. Aurel Vlaicu, Arad, ISBN 978-973-752-292-4, 182 p., 2008.
   3. 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.;
   4. **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.
   5. **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.
   6. 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.
   7. **Dzitac, I.**, Matematică economică , Ed. Univ. Agora, ISBN 973-86723-2-5, 292 p., 2005.
   8. **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.
   9. **Dzitac, I.,** Mang, I.; Sadoveanu, G., Didactica informaticii, Ed. Univ. din Oradea, ISBN 973-049-5, 526 p., 2003.
   10. Oros, G.; Cătaș, A.; Oros, G.I.; **Dzitac, I.**, Dzițac, S.; Functii complexe - Culegere de probleme, Ed. Univ. din Oradea, ISBN 973-613-396-6 (2003), 236 p., 2003.
   11. 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.
   12. 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.=
   13. **Dzitac, I.,** Laslo, E., Programarea paralela utilizând PVM, Ed. Univ. din Oradea, ISBN 973-613-409-1, 144 p, 2003.
   14. **Dzitac, I.**, *Calcul paralel* , Ed. Univ. din Oradea, ISBN 973-049-5,  , 397 p, 2001.
   15. **Dzitac, I.,** Barnabas Bede, B.; Dzitac, S.; Madar, A.; Oros, G.I., Analiză matematică: Calcul diferențial, Ed. Univ. din Oradea, ISBN 973-613-050-9, 207 p., 2001.
   16. **Dzitac, I.,** Seremi, L.; Dzitac, S.; Cătaș, A.; Oros, G.I., Matematici speciale- Elemente de algebră, Geometrie analitică, Probabilități, Ed. Univ. din Oradea, ISBN 973-613-044-4, 247 p., 2001.
   17. **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.
   18. **Dzitac, I.,** Turcuș, G.; Tripe, A.; Cătaș, A.,  *Metoda Monte Carlo - Hazard si determinism*, Ed. Univ. din Oradea, ISBN 973-8193-07-9, 198 p., 2000.
   19. **Dzitac, I.,** Madar, A., Analiza matematica -Calcul integral Ed. Univ. din Oradea, ISBN 973-8083-03-6 , 174 p., 2000.
   20. **Dzitac, I.,** Pantea, M.; Dzițac, S., Ghid metodic - Algebra de liceu- clasa IX-a, Ed. Univ. din Oradea, ISBN973-8193-01 - X, 178 p., 2000.
2. **Chapter of books published in Romania**
   * 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 inArticial Intelligence*, ISBN 978-973-27-1678-6, Ed. House of Romanian Academy, pp. 84-99, 2008.
3. **Books published abroad**
   * + 1. Dzitac I., Dzitac S., Filip F., Kacprzyk J., Manolescu MJ., Oros H. (eds) Intelligent Methods in Computing, Communications and Control. ICCCC 2020. Advances in Intelligent Systems and Computing, vol 1243. Springer, Cham. <https://doi.org/10.1007/978-3-030-53651-0_1>
       2. Dzitac, I, Filip, FG, Manolescu, MJ; Dzitac, S; Oros, H; Dzitac, D, Proc. of 2018 7th International Conference on Computers Communications and Control (ICCCC), IEEE,: Published: 2018,
       3. Dzitac, I, Filip, FG, Manolescu, MJ;, Proc. of 2016 7th International Conference on Computers Communications and Control (ICCCC), IEEE,: Published: 2016
4. **Chapter of books published abroad**

1.Nădăban S., Dzitac S., Dzitac I. (2020) Fuzzy Normed Linear Spaces. In: Shahbazova S., Sugeno M., Kacprzyk J. (eds) Recent Developments in Fuzzy Logic and Fuzzy Sets. Studies in Fuzziness and Soft Computing, vol 391. Springer, Cham. [https://doi.org/10.1007/978-3-030-38893-5\_8](https://l.facebook.com/l.php?u=https%3A%2F%2Fdoi.org%2F10.1007%2F978-3-030-38893-5_8%3Ffbclid%3DIwAR3cTXj1EFHJGv7xcNjKyAjgujCuKra4ZtU6spCkCglAsy8NPKtZQlxeHtk&h=AT22wArT5DAPjaGSEdDVloH3dJXEkGypbdbKEwR2KbF4pPVa6HD29M-FbVoPgU6ViTvbfHxXAVT3JvUnrxYhMZUle8XvQdhx8z-mmrlDpronvgCchrpAABHiB1LI4N_Aw39QQ9CyOVxngdzEGUyv6r3QrAriLeMpng" \t "_blank)

1. Dzitac I., Dzitac S., Filip F.G., Manolescu MJ. (2021) Redesign of a Conference from In-Person to Online. Case Study: ICCCC. In: Dzitac I., Dzitac S., Filip F., Kacprzyk J., Manolescu MJ., Oros H. (eds) Intelligent Methods in Computing, Communications and Control. ICCCC 2020. Advances in Intelligent Systems and Computing, vol 1243. Springer, Cham. [https://doi.org/10.1007/978-3-030-53651-0\_1](https://l.facebook.com/l.php?u=https%3A%2F%2Fdoi.org%2F10.1007%2F978-3-030-53651-0_1%3Ffbclid%3DIwAR3cTXj1EFHJGv7xcNjKyAjgujCuKra4ZtU6spCkCglAsy8NPKtZQlxeHtk&h=AT0ONWtwuadTWeUAuT8XJb-QhCWgLrw48drJHjdWrrEjm5q3HFrbBRr9-KuqDcfTwbjmpFWPSBCRKa10rh25SSC9weicXYeFPL9gqmCWnOSeAYTTRseiuWHhgybu3ATgz5JrREzPbKqVd3aKWk5ms2HUx9qPpvxzWA" \t "_blank)
2. **Papers published in journals indexed in ISI Web of Science (Clarivate Analytics)**
3. Birouaș, F.I.; Țarcă, R.C.; Dzitac, S.; Dzitac, I. Preliminary Results in Testing of a Novel Asymmetric Underactuated Robotic Hand Exoskeleton for Motor Impairment Rehabilitation. Symmetry **2020**, 12, 1470.
4. Stanojevic, B, Dzitac, S., Dzitac, I, Fuzzy Numbers and Fractional Programming in Making Decisions, INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING  **Volume:** 19  **Issue:** 4  **Pages:** 1123-1147  **DOI:** 10.1142/S0219622020300037  **Published:** JUL 2020   WOS:000536172000002
5. Dan Noje, Ioan Dzitac, Nicolae Pop, Radu Tarca, IoT Devices Signals Processing Based on Shepard Local Approximation Operators Defined in Riesz MV-Algebras, Informatica, 31(1), 131-142, 2020.
6. Bogdana Stanojevic, Simona Dzitac, Ioan Dzitac, Crisp-linear-and models in fuzzy multiple objective linear fractional programming, International Journal of Computers Communications & Control, 15(1), 2020. WOS:000517210900010
7. Xinxin Wang, Zeshui Xu, Ioan Dzitac, Bibliometric Analysis on Research Trends of International Journal of Computers Communications & Control*.* Int. J. Comput. Commun. Control 14(5), 711-732 (2019)
8. Albu, R.D.; Cornelia Emilia Gordan, C.E.; **Dzitac, I.** Anti-Spoofing Techniques in Face Recognition, an Ensemble Based Approach, *Studies in Informatics and Control*, 28(1), 111-118, 2019 (**Article WOS:000463440000012**) <https://doi.org/10.24846/v28i1y201912>
9. Noje, D.; Tarca, R.; **Dzitac, I.;** Pop, N. 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**). DOI: <https://doi.org/10.15837/ijccc.2019.1.3490>
10. Endrowednes Kuantama, Radu Catalin Tarca, Simona Dzitac, *Ioan Dzitac*, Tiberiu Vesselenyi, Ioan Tarca, *The Design and Experimental Development of Air Scanning Using a Sniffer Quadcopter.* [*Sensors 19(18)*](https://dblp.org/db/journals/sensors/sensors19.html#KuantamaTDDVT19): 3849 (2019)
11. Liu, H.; **Dzitac**, I.; Guo, S. Factors Space and its Relationship with Formal Conceptual Analysis: A General View,*International Journal of Computers Communications & Control,* ISSN 1841-9836, 13(1), 83-98, FEB 2018. (**Article WOS:000425895400007**) DOI: <https://doi.org/10.15837/ijccc.2018.1.3033>
12. Kuantama, E.; Tarca, I.; Dzitac, S.; Dzitac, I.; Tarca, R. Flight Stability Analysis of a Symmetrically-Structured Quadcopter Based on Thrust Data Logger Information. Symmetry **2018**, 10, 291. (**Article WOS:000440215400061**). <http://www.mdpi.com/2073-8994/10/7/291/htm>
13. Liu, H.; **Dzitac**, I.; Guo, S., Reduction of Conditional Factors in Causal Analysis, *International Journal of Computers Communications & Control,*  13 (3), 383-390, 2018. (**Article WOS:000433242700006**), DOI: <https://doi.org/10.15837/ijccc.2018.3.3252>
14. **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,* ISSN 1841-9836, 12(6), 748-789, DEC 2017. (**Article WOS:000417397400001**) DOI: <https://doi.org/10.15837/ijccc.2017.6.3111>
15. Moldovan, O.G.; Dzitac, S.; Moga, I.; Vesselenyi, T.; Dzitac, I. Tool-Wear Analysis Using Image Processing of the Tool Flank. Symmetry 2017, 9 (12), 296. (**Article WOS: 000419227200008**) <https://doi.org/10.3390/sym9120296>
16. **Dzitac I.,** Manolescu M.J., Contributions of Florin Gheorghe Filip in Information Science and Technology, *International Journal of Computers Communications & Control*, 12(4), 449-460, 2017. WOS:000405065900001 DOI: <https://doi.org/10.15837/ijccc.2017.4.2960>
17. Negulescu A.E., Negulescu S., **Dzitac I.,** Balancing Between Exploration and Exploitation in ACO, *International Journal of Computers Communications & Control*, 12(2), 265-275, 2017. (**Article WOS:000395506500009**) DOI: <https://doi.org/10.15837/ijccc.2017.2.2879>
18. Butaci C., Dzitac S., **Dzitac I.,** Bologa G., Prudent decisions to estimate the risk of loss in insurance, *Technological and Economic Development of Economy*, ISSN: 2029-4913, 23(2), 428-440, 2017. (**Article WOS:000396823900010**) <https://doi.org/10.3846/20294913.2017.1285365>
19. Nadaban S., **Dzitac I.,** Some Properties and Applications of FuzzyQuasi-Pseudo-Metric Spaces, *Informatica*, ISSN: 0868-4952, Vol.27, No.1, pp.  141–15, 2016. WOS:000373315100007 DOI: <http://dx.doi.org/10.15388/Informatica.2016.7>
20. Stanojevic B., **Dzitac I.,** Dzitac S., On the ratio of fuzzy numbers exact membership function computation and applications to decision making, *Technological and Economic Development of Economy*, ISSN: 2029-4913, Vol.21, No.5, pp. 815-832, 2015. (**Article WOS:000361984500009**) DOI: <https://doi.org/10.3846/20294913.2015.1093563>
21. **Dzitac I.,** The Fuzzification of Classical Structures: A General View, *International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol. 10, No.6, pp. 775-793, 2015 (**Article WOS:000364346600002**). DOI: <https://doi.org/10.15837/ijccc.2015.6.2069>
22. **Dzitac I.,** Impact of Membrane Computing and P Systems in ISI WoS. Celebrating the 65th Birthday of Gheorghe Păun, *International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol.10, No.5, pp. 617-626, October, 2015 (**Article WOS:000358340900001**). DOI: <http://dx.doi.org/10.15837/ijccc.2015.5.2024>
23. Nadaban S., **Dzitac I.,** Atomic Decompositions of Fuzzy Normed Linear Spaces for Wavelet Applications, *Informatica*, ISSN: 0868-4952, Vol.25, No.4, pp. 643-662, 2014 (Article WOS:000347513200007). DOI: <http://dx.doi.org/10.15388/Informatica.2014.33>
24. Felea I., Dzitac S., Vesselenyi T., **Dzitac I.,** Decision Support Model for Production Disturbance Estimation, *International Journal of Information Technology & Decision Making,* World Scientic Publishing Company, Vol.13, No.3, pp. 623-647, 2014 (**Article WOS:000336411100009**). <https://doi.org/10.1142/S0219622014500576> http://www.worldscientific.com/doi/abs/10.1142/S0219622014500576
25. Albu R.D., **Dzitac I.,** Popentiu-Vladicescu F., Naghiu I.M., Input Projection Algorithms Influence in Prediction and Optimization of QoS Accuracy, *International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol.9, No.2, pp. 132-139, 2014 (**Article WOS:000332352800001**). DOI: <https://doi.org/10.15837/ijccc.2014.2.1013>
26. Brasoveanu A.M.P., **Dzitac I.,** The Role of Visual Rhetoric in Semantic Multimedia: Strategies for Decision Making in Times of Crisis, *International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol.7, No.4, pp.605-615, 2012 (**Article WOS:000308334500002**). DOI: <http://dx.doi.org/10.15837/ijccc.2012.4.1361>
27. **Dzitac I.,** Vesselenyi T., Tarca R. C., Identification of ERD using Fuzzy Inference Systems for Brain-Computer Interface, *International Journal of Computers Communications & Control*, Special Issue on Fuzzy Sets and Systems, Vol.6, No.3, pp. 403-417, 2011 (**Article WOS:000294513700003**). DOI: <http://dx.doi.org/10.15837/ijccc.2011.3>
28. 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*, ISSN 1841-9836, Vol.5, No.4, pp. 432-446, 2010 (**Article WOS:000282600700002**). DOI: <http://dx.doi.org/10.15837/ijccc.2010.4>
29. Negulescu S. C., **Dzitac I**., Lascu A. E., Synthetic Genes for Artificial Ants. Diversity in Ant Colony Optimization Algorithms, *International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol.5, No.2, pp. 216-223, 2010 (**Article WOS 000275741400008**). DOI: <http://dx.doi.org/10.15837/ijccc.2010.2>
30. Secui D. C., Dzitac S., Bendea G.V., **Dzitac I.,** An ACO Algorithm for Optimal Capacitor Banks Placement in Power Distribution Networks, *Studies in Informatics and Control,* ISSN 1220-1766, Vol.18, No.4, pp. 305-314, 2009 (**Article WOS:000272759700002**). <http://sic.ici.ro/?page_id=423>
31. **Dzitac I.,** Barbat B.E., Artificial Intelligence + Distributed Systems = Agents, International Journal of Computers Communications & Control, ISSN 1841-9836, Vol.4, No.1, pp. 17-26, 2009 (**Article WOS:000262821700002**). DOI: <http://dx.doi.org/10.15837/ijccc.2009.1>
32. Vesselenyi T., **Dzitac I.** , Dzitac S., Vaida V., Surface Roughness Image Analysis using Quasi-Fractal Characteristics and Fuzzy Clustering Methods*, International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol.3, No.3, pp. 304-316, 2008 (**Article WOS:000257275300008**). DOI: <http://dx.doi.org/10.15837/ijccc.2008.3>
33. Lupse V., **Dzitac I.,** Dzitac S., Manolescu A., Manolescu M.-J., CRM Kernel-based Integrated Information System for a SME: An Object-oriented Design, *International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol.3, No.S, pp. 375-380, 2008 (**Article WOS:000257497600059**). DOI: <http://dx.doi.org/10.15837/ijccc.2008.5>
34. Dzitac S., Felea I., **Dzitac I.,** Vesselenyi T., An Application of Neuro-Fuzzy Modelling to Prediction of some Incidence in an Electrical Energy Distribution Center, *International Journal of Computers Communications & Control*, ISSN 1841-9836., Vol.3, No.S, pp. 287-292, 2008 (**Article WOS:000257497600043**). DOI: <http://dx.doi.org/10.15837/ijccc.2008.5>
35. Vesselenyi T., Dzitac S., **Dzitac I.,** Manolescu M.-J., Fuzzy and Neural Controllers for a Pneumatic Actuator, *International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol.2, No.4, pp. 375-387, 2007 (**Article WOS:000255333100007**). DOI: <http://dx.doi.org/10.15837/ijccc.2007.4>
36. Pop B., **Dzitac I.,** (2006), On a Fuzzy Approach to Solving Multiple Criteria Fractional Programming Problem, *International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol.1, No. S, pp. 381-385, 2006, (**Article WOS:000203014800064**). DOI: <http://dx.doi.org/10.15837/ijccc.2006.5>
37. Filip F.G., **Dzitac I.,** Editorial Challenge: From a Quarterly to a Bimonthly Journal, *International Journal of Computers Communications & Control*, Vol.7, No.5, pp. 796-797, 2012 (**Editorial Material WOS:000310664900001**).
38. **Dzitac I.** (2008), ICCCC 2008 & EWNLC 2008 Celebrates Bardeen's Centenary and Welcomes Professor Zadeh, *International Journal of Computers Communications & Control*, ISSN 1841-9836, Vol.3, No.S, pp. 16-25, 2008 (**Editorial Material WOS:000257497600001**). DOI: <http://dx.doi.org/10.15837/ijccc.2008.5>
39. **Dzitac I.,** Manolescu M.-J., Oros H., Valeanu E., 60 Years from Birth of Academician F.G. Filip, *International Journal of Computers Communications & Control*, Vol.2, No.3, pp. 209-216, 2007, ISSN 1841-9836, 2007 (**Biographical-Item WOS:000255333000001**). DOI: <http://dx.doi.org/10.15837/ijccc.2007.3>
40. Filip F.G., **Dzitac I**., Acad. Solomon Marcus at 85 Years (A Selective Bio-bibliography), *International Journal of Computers Communications & Control*, Vol.5, No.2, pp. 144-147, 2010 (**Biographical-Item WOS:000275741400001**). DOI: <http://dx.doi.org/10.15837/ijccc.2010.2>
41. **ISI Web of Science Proceedings papers**
    * 1. Bogdana Stanojevic, Simona Dzitac, *Ioan Dzitac*, *Solution approach to a special class of full fuzzy linear programming problems.* ITQM 2019, Procedia Computer, 260-266, 2019
      2. Dzitac, I, Filip, FG, Manolescu, MJ; Dzitac, S; Oros, H; Dzitac, D, 2018 7th International Conference on Computers Communications and Control (ICCCC): Preface, 2018 7th International Conference on Computers Communications and Control (ICCCC), Proc. Of, Pages: 1-1, Published: 2018, (**Proceedings Paper** **WOS:000440474000001)**
      3. Felea I., Dzitac S., Popentiu F., **Dzitac I.,** Models of availability maximization applied to ”k-outof-n” structures for power systems, Chapter in book: Reliability, Risk and Safety: Theory and Applications - Bris, Guedes Soares & Martorell (eds), Taylor & Francis Group, London, CRC Press 2009, Print ISBN: 978-0-415-55509-8, eBook ISBN: 978-0-203-85975-9, pp. 607-614. (**Proceedings Paper, WOS:000281188500083**). <http://www.crcnetbase.com/doi/abs/10.1201/9780203859759.ch83>
42. Heeseok Lee, Yong Shi, Jongwon Lee, Felisa Cordova, **Ioan Dzitac**, Gang Kou, Jaiping Li, Promoting Business Analytics and Quantitative Management of Technology: Preface for ITQM 2016, Procedia Computer Science, Volume 91, Pages 1-8, 2016. [http://dx.doi.org/10.1016/j.procs.2016.07.103](http://dx.doi.org/10.1016/j.procs.2016.07.103" \t "doilink)
43. Sorin Nădăban, Simona Dzitac**, Ioan Dzitac**, Fuzzy TOPSIS: A General View, Procedia Computer Science, Volume 91, Pages  823-831, 2016. (**Proceedings Paper WOS:000387683300098**) <http://dx.doi.org/10.1016/j.procs.2016.07.088>
44. 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, Volume 55C, 2015, Pages 1366-1373 (**Proceedings Paper WOS:000360101400156**). [doi:10.1016/j.procs.2015.07.123](http://dx.doi.org/10.1016/j.procs.2015.07.123)
45. Nadaban S., **Dzitac I.,** Special Types of Fuzzy Relations, 2nd International Conference on Information Technology and Quantitative Management, ITQM 2014, Procedia Computer Science, Vol.31C, pp. 552-557, 2014 (**Proceedings Paper WOS:000360713800063**). <http://dx.doi.org/10.1016/j.procs.2014.05.301>
46. Benta D., Bologa G., **Dzitac I.,** E-learning Platforms in Higher Education. Case Study, 2nd International Conference on Information Technology and Quantitative Management, ITQM 2014, Procedia Computer Science, Volume 31C, 2014, pp. 1170-1176, 2014 (**Proceedings PaperPaper WOS 000360713800135**).  [doi:10.1016/j.procs.2014.05.373](http://dx.doi.org/10.1016/j.procs.2014.05.373)
47. Vesselenyi T., **Dzitac I.,** Dzitac S., Hora C., Porumb C., Preliminary Issues On Brain - Machine Contextual Communication Structure Development, SOFA 2009, IEEE Proceedings, ISBN 978-1-4244- 5054-1, pp. 35-40, 2009. (**Proceedings Paper WOS:000275159600007**). DOI: [10.1109/SOFA.2009.5254882](http://dx.doi.org/10.1109/SOFA.2009.5254882)
48. Hora C., Vesselenyi T., Dzitac S. , **Dzitac I.,** Hora H., Wear Simulation through Cellular Automata Method, 2009 IEEE Proceedings, ISBN 978-1-4244-5054-1, pp. 41-46, 2009. (**Proceedings Paper WOS:000275159600008**). DOI: [10.1109/SOFA.2009.5254879](http://dx.doi.org/10.1109/SOFA.2009.5254879" \t "blank)
49. **Dzitac I.** , Moisil I., Advanced AI Techniques for Web Mining, Proc. of MAMECTIS '08, ISSN 1790-2769, pp. 343-346, 2008 (**Proceedings Paper WOS:000262507100062**). <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.325.5536&rep=rep1&type=pdf>
50. **Papers published in journals indexed in international databases**
51. Dzitac S., Vesselenyi T., **Dzitac I.,** Pârv M., A Fuzzy Algorithm for Reliability. Simulation of an Electric Station, *ROMAI J.,* Vol.5, No.2, pp. 49-58, 2009. <https://rj.romai.ro/arhiva/2009/2/RJv5n2-DzitacS.pdf>
52. Vesselenyi T., Dzitac S. ,**Dzitac I.,** Vesselenyi I. , An Experimental Setup for a Brain-Computer Interface, *Annals of the Oradea University. Fascicle of Management and Technological Engineering*, Vol. 8 (XVIII), pp. 888-891, 2009. <https://studylib.net/doc/18204227/an-experimental-setup-for-a-brain-computer-interface>
53. **Dzitac I.,** A letter from the associate editor in chief, International Journal of Computers, Communications and Control, vol.3, No.3, pp. 220-220, 2008 (Letter, Scopus).
54. Dzitac S., Goia H., **Dzitac I.,** Carlan M., Optimization of the Number of Executans in Maintenance Works, *ROMAI J.,* ISSN 841-5512, Vol. 3, pp. 125-140, , 2007 (MathSciNet MR2670875 90B25). <https://rj.romai.ro/arhiva/2007/2/RJv3n2-Dzitac.pdf>
55. Pop B., **Dzitac I.,** (2007), Mixed Variables Fuzzy Programming Algorithm, *Studies in Informatics and Control*, ISSN 1220-1766, Vol.17, No.2, pp. 185-190, 2007.
56. Dzitac S. , Vesselenyi T. , **Dzitac I.** , Valeanu E. , (2007), Electrical Power Station Reliabity Modelling Procedure using The Monte Carlo Method, *IFAC PapersOnLine*, ISBN 978-3-902661-31-9, 4:625-700, 2007. DOI: [10.3182/20070927-4-RO-3905.00115](http://www.ifac-papersonline.net/Detailed/39206.html)
57. Pop B., **Dzitac I.** , Fuzzy Control Rules in Convex Optimization*, Studies in Informatics and Control*, ISSN 1220-1766., Vol16, No.4 pp. 363-366, 2006.
58. Pop B. , **Dzitac I.** , (2006), On Choosing Proper Linguistic Description for Fractional Functions in Fuzzy Optimization, *Acta Univ. Apulensis, Math. and Informatics*, ISSN 1582-5329, No. 12, pp. 63-72, 2006. <ftp://ftp.math.ethz.ch/EMIS/journals/AUA/pdf/44_49_art_extins.pdf>
59. **Dzitac I.,** Dzitac S., Valeanu E., Synchronous and Asynchronous Parallelization of Some Classical Methods For Systems Resolution, *Studii si Cercetari Stiintice, Ser. Mat. Univ. Bacau*, ISSN 1224-2519, No. 16 (Suppl.): pp. 409-422, 2006 (MathSciNet MR2318969 65H10 65Y05 68W10). <http://pubs.ub.ro/scssm/issues/103.pdf>
60. **Dzitac I.,** Pop B., (2006), On Triangular Fuzzy Numbers Arithmetic Approximations in Linear Optimization, *Bull. Transilv. Univ. Brasov Ser. B*, ISSN 1223-964X, Vol. 48, pp. 15-20, 2006.
61. Dzitac S., Vesselenyi T., **Dzitac I.,** A MATLAB program based finite element method for computing and simulation Lorentz power of magnetic field, *ROMAI J.* Vol.2, no. 2, 55-62, 2006 (MathSciNet MR2648042 78-04). <https://rj.romai.ro/arhiva/2006/2/RJv2n2-Dzitac.pdf>
62. Veres M., **Dzitac I.,** Hora C., Dzitac S., Experimental results on simulation models of hydro-energetic equipments dynamic behaviour, *ROMAI J*., ISSN 841-5512, Vol.1, No.2, pp.183-190, 2005.
63. Lupse V., **Dzitac I.,** (2005), Survey of the ERP Systems for Small and Medium Enterprises, *An. Univ. din Oradea, Fasc. Electrotehnica, St. Calculatoarelor si sistemelor*, ISSN 1223-2106, pp. 68-75, 2005.
64. Veres M., **Dzitac I**., Hora C., On Simulation Models of the Dynamic Behaviour of the Hydro Energetic Equipments, *ROMAI J.,* ISSN 841-5512, Vol. I, No. 1, pp. 205-208, 2005. <https://rj.romai.ro/arhiva/2005/1/RJv1n1-Veres.pdf>
65. Lupse V., **Dzitac I.,** A design based of object programming of a module of integrated ERP systems of small and medium entreprises, *Acta Univ. Apulensis, Math. and Informatics*, ISSN 1582-5329, Nr. 10, pp. 275-282, 2005. <http://auajournal.uab.ro/upload/46_655_template.pdf>
66. **Dzitac I.,** Dzitac S., Oros H., Some parallel procedures for computing the eigenvalues of a real symmetric matrix, *Acta Univ. Apulensis Math. Inform.,* ISSN 1582-5329, No. 6, pp. 111-116, 2003 (MathSciNet MR2060693 65F15). <http://auajournal.uab.ro/upload/51_509_13_Dzitac_ICTAMI.pdf>
67. **Dzitac I.,** A Serial Program for Simulation of RFAIM Method, *Bul. Stiint. , Univ. Pitesti*, Ser. Mat. Inf., ISSN 1453-116x, Nr. 9, pp. 119-128, 2003 .
68. **Dzitac I.,** Dzitac S. , Oros H. , (2003), Some Parallel Procedures For Nonlinear System Resolution, *Bul. Stiint. , Univ. Pitesti*, Ser. Mat. Inf., Nr. 9, pp. 129-138, 2003, ISSN 1453-116x.
69. **Dzitac I**. , Dzitac S. , Oros H. , (2003), Some parallel procedures for computing the eigenvalues of a real symmetric matrix, *Acta Univ. Apulensis, Math. and Informatics*, ISSN 1582-5329, Nr. 6, pp. 111-116, 2003. <http://auajournal.uab.ro/upload/51_509_13_Dzitac_ICTAMI.pdf>
70. **Dzitac I**., Dzitac S. , Oros H. , (2002), Some Asynchronous Iterative Procedures For Fixed Point System Resolution, *Carpathian Journal of Mathematics/Bul. St. Univ. Baia Mare,* Seria B, Mat. Inf., ISSN 1584-2851, Vol. XVIII, Nr. 2, pp. 205-210, 2002. <https://www.jstor.org/stable/44001857?seq=1/subjects>
71. **Dzitac I.** , (2001), A binary graph for the parallel architecture, *The PAMM's periodical Bull. for Appl. & Computer Mathematics, BAM - 1906/2001 (XCVI - C)*, Budapest, pp. 151-164, 2001, ISSN 0133-3526.
72. **Dzitac I.** , (2001), Parallel Solving a System of Nonlinear Equations, *The PAMM's periodical Bull. for Appl. & Computer Mathematics, BAM - 1905/2001 (XCVI - C)*, Budapest, pp. 141-150, 2001, ISSN 0133-3526.
73. **Dzitac I.,** Random-filtered asynchronous iterative method, *Bul. Stiint. Univ. Baia Mare Ser. B Fasc. Mat.-Inform*., Vol.16, no. 1, 17-24, 2000 (MathSciNet MR1832120 65J15 65H10).
74. **Dzitac I**., ”Parallel” and ”concurrent” in informatics vocabulary, *An. Univ. Oradea Fasc. Mat.,* Vol.6 , pp. 30-34, (1997/98)(MathSciNet MR1729867 68Q10).
75. **Proceedings papers non-ISI**
    1. Popa, L.; Sida, L.; Nadaban, S.; **Dzitac**, I., Why Need for Fuzzy Logic in High School?, *International Symposium Research and Education in Innovation Era - ISREIE Conference, 7th Edition*, May 17th-20th, 2018 - Mathematics & Computer Science, 101-105, 2018.
    2. **Dzitac, I.** - From Kelvin to Zadeh: Hard Computing versus Soft Computing, *International Symposium Research and Education in Innovation Era -4nd Edition, Mathematics & Computer Scie*nce ,Arad, 14-20, 2012.
    3. **Dzitac**, I.; Valeanu, E.M., AN ALGORITHM FOR EDITORIAL GOOD PRACTICE. CASE STUDY: A JOURNAL IN COMPUTER SCIENCE, *International Symposium Research and Education in Innovation Era -3nd Edition, Mathematics & Computer Science* ,Arad, 31-37, 2010.
    4. **Dzitac, I.,** New Trends in Artificial Intelligengence, International Symposium Research and Education in Innovation Era -2nd Edition, Mathematics & Computer Science ,Arad, 22-31, 2008.
    5. **Dzitac I.,** Dzitac S., Valeanu E., Solving higher than three degrees algebraic equations using parallel and distributed computation methods, Chapter in D. Breaz, N. Breaz, D. Wainberg, Proc. of ICTAMI 2007, ISBN 978-973-1890-01-2., Aeternitas Publ. House, Alba Iulia, pp. 83-92, 2008.
    6. Dzitac S. , Vesselenyi T., **Dzitac I**. , Valeanu E. , (2007), Electrical Power Station Reliabity Modelling Procedure using The Monte Carlo Method, Chapter in IFAC PapersOnLine, ISBN 978-3-902661-31-9, 4:625-700, 2007. DOI: 10.3182/20070927-4-RO-3905.00115
    7. **Dzitac I.,** Dzitac S., Valeanu E., Web Distributed Computing for Landscape Architecture, Chapter in Eleftheriadis, N., Styliadis, A., Paliokas, I. (eds), Proceedings of the LANT07, ISBN 978-960-363-027-2., International Conference Landscape Architecture and New Technologies, 25-26 May 2007, Drama, Greece, pp. 25-36, 2007.
    8. Lupse V., **Dzitac I.,** Dzitac S. , Valeanu E. , (2007), A Project of Commercial Module of an ERP System for SME, Chapter in Informatics in Knowledge Society, Proc. of The Eighth International Conference on Informatics in Economy IE 2007 - May 17-18, ISBN 978-973-594-921-1, pp. 441-446, 2007.
    9. **Dzitac I.,** Dzitac S., Oros H., (2004), Some parallel implementation of Random Filtered Asynchronous Iterative Method, Chapter in Proc. of the International Conference of Computers and Communications, ICCC 2004, Baile Felix - Oradea, Ed. Univ. din Oradea, ISBN 973-613-542 - X, pp. 139-146, 2004.
    10. **Dzitac I.,** Dzitac S., Oros H., Some applications of the Perov’s fixed point theorem, Chapter in Proc. of the CAIM 2003, vol. 2, Ed. Univ. din Oradea, ISBN 973-613-330-3 (gen.), ISBN 973-613-332 - X, pp. 120-129, 2003.
    11. **Dzitac I.,** Dzitac S., Valeanu M., A Parallel Algorithm for the Real Roots Isolation of the Polynomial Equation, Chapter in Proc. of The 11th Conference on Applied and Industrial Mathematics (CAIM 2003), ISBN 973-613-330-3, Edit. Univ. din Oradea, vol. I, pp. 97-99, 2003.
    12. **Dzitac I.,** Moldovan G., Oros H., A Parallel Procedure for the Exhaustive Numerical Resolution of the Polynomial Equations, Chapter in Proc. of The 11th Conference on Applied and Industrial Mathematics (CAIM 2003), Oradea, Edit. Univ. din Oradea, ISBN 973-613-330-3 (gen.), ISBN 973-613-331-1, pp. 94-96, 2003.
    13. **Dzitac I.,** (2002), A Survey of Taxonomy of the Parallel Computers, Chapter in Proceedings of The 27th Annual Congress of the American Romanian Academy of Arts and Sciences (ARA), Polytechnic International Press, Montreal, Canada, ISBN 2-553-01024-9, pp. 672-673, 2002.
76. **National Projects**
77. ”C.E.R.C. DE. APTITUDI.N.I. - CrEaRea, Corelarea si DEzvoltarea APTITUDInilor Necesare pentru trecerea la viață activă”, Contract nr. POSDRU/161/2.1/G/137526, perioada 2014-2015 [(Responsabil partener 1 din consortiu).](http://cercdeaptitudini.eu/)
78. Cod CNCSIS 2586/ PN- II- RI-PRECISI/2014-8-6907/Resurse umane/[Premierea rezultatelor cercetării/2014 (zona rosie, valoare totala premiu: 4000 lei).](http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202014/ACTUALIZARE%2023_12_2014/LISTA%205%20REZULTATE%20-%20actualizata%20-%2018_12_2014.pdf)
79. ”Pregătiți pentru a inova, pregătiți pentru a răspunde mai bine nevoilor locale. Calitate și diversitate a universităților din România”, Proiect UEFISCDI + EUA-IEP, Contract nr. POS-DRU/114/1.2/S/123120, perioada 2013-2014 [(Responsabil partener Universitatea Agora).](http://univagora.ro/en/quality/eua-iep/)
80. ”Studiu național de monitorizare a inserției pe piața muncii a absolvenților din Învățământul superior”,  Proiect UEFISCDI, POSDRU 2007-2013, UAV nr. 754/29.04.2011 [(Membru)](http://dzitac.ro/files/contest/Cheta.pdf)
81. ”Adaptarea personalului din sectorul energetic la noile tehnologii i condit¸ii de muncă”, POS DRU finantat din Fondul Social European, Contract: nr. POSDRU/40/3.2./G/9043/01.04.2009; Obiectul contractului: ; Valoarea contractului: 1.627.900,00 lei; Perioada: 01.04.2009-01.04.2010. Director: Popper Laurentiu, (12.465.320 RON) [(Membru).](http://dzitac.ro/files/contest/Popper2009-2011.pdf)
82. ”Dezvoltarea abilităților antreprenoriale ale personalului din sectorul energetic”, POS DRU finantat din Fondul Social European, Contract: nr. POSDRU/9/3.1./S/7/25 sept. 2008; ; Valoarea contractului: 12.176.500 lei, Durata contractului: 1 noiembrie 2008 31. octombrie 2011. Director: Popper Laurentiu (1.661.345 RON) [(Membru).](http://dzitac.ro/files/contest/popper2008-2011.pdf)
83. ”From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence”, CNCSIS: PN II 2007-2013, PN II- Idei/Workshop exploratoriu: , May 15-17, 2008, Felix Spa, Romania - PO-01-Ed1-R0-F37./08.05.2008, cod CNCSIS 47, contract nr.8/2008, Director Dan Tufiș, Acord colaborare implementare Nr.300/ 25.03.2008 **(Responsabil implementare proiect și execuție bugetară, Valoare contract (câștigat prin competiție): 30.000 RON)**:  [Raport final (Tufiș)](http://dzitac.ro/files/contest/Raport_Tufis.pdf); [Acord Univ. Agora (Dzițac) - ICIA (Tufiș)](http://dzitac.ro/files/contest/Acord_AGORA_ICIA.pdf); Carte publicată cu L.A.Zadeh, D. Tufiș și F.G. Filip: [Copertă](http://www.acad.ro/carti2008/carte08_06Zadeh.htm), [Full text](http://dzitac.ro/files/contest/Zadeh_et_al_final.pdf), [Anexă](http://dzitac.ro/files/contest/Zadeh_et_al_appendix.pdf); [Abstracts of ICCCC2008](http://univagora.ro/jour/index.php/aip/issue/view/66); [Proceedings of ICCCC2008](http://univagora.ro/jour/index.php/ijccc/issue/view/41).
84. ”Cercetari multidisciplinare privind modelul teoretic ¸si experimental al unei electrocentrale ecologice bazate pe energia valurilor marine”, Proiect CEEX, Modulul 1, ANCS: Contract nr. 103/03.10.2005, Director: Ion Corbu, Director sub-proiect: Badea Gabriela, 2005-2008 [(Membru).](http://dzitac.ro/files/contest/badea.pdf)
85. Cod CNCSIS Nr.250: PN II 2007-2013, PN II/ Resurse umane/ [Premierea rezultatelor cercetariiarticole\_trimestrul I,2009(valoare totală premiu: 500 lei).](http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202009/REZULTATE_PREMIERE_TRIMESTRUL%20I_2009b.pdf)Cod CNCSIS Nr.231: PN II 2007-2013, PN II/ Resurse umane/[Premierea rezultatelor cercetării/Octombrie 2008 (valoare totală premiu: 2000 lei).](http://uefiscdi.gov.ro/UserFiles/File/PREMIERE_ARTICOLE/ARTICOLE_2008/REZULTATE_PREMIERE_OCTOMBRIE_2008.pdf)
86. Cod CNCSIS Nr.88: PN II 2007-2013, PN II/ Resurse umane/[Premierea rezultatelor cercetării/Septembrie 2008 (valoare totală premiu: 2000 lei).](http://uefiscdi.gov.ro/UserFiles/File/PREMIERE_ARTICOLE/ARTICOLE_2008/REZULTATE_PREMIERE_SEPTEMBRIE%202008.pdf)
87. Cod CNCSIS Nr.90: PN II 2007-2013, PN II/ Resurse umane/[Premierea rezultatelor cercetării/Septembrie 2008(valoare tootală premiu: 2000 lei).](http://uefiscdi.gov.ro/UserFiles/File/PREMIERE_ARTICOLE/ARTICOLE_2008/REZULTATE_PREMIERE_SEPTEMBRIE%202008.pdf)
88. ANCS: Contract no. 75 /10.05.2006 ICCCC 2006 [(cofinanţare obţinută prin competiţie: 4000 lei).](http://dzitac.ro/files/contest/ICCCC2006.pdf)
89. Contract no.20L /9.04.2008/ ANCS-IJCCC [(subvenţie obţinută prin competiţie: 12000 lei).](http://dzitac.ro/files/contest/IJCCC%202008.pdf)
90. Contract 50L/2007 ANCS-IJCCC (subvenţie obţinută prin competiţie: 9000 lei).
91. Contract no. 48L /06.09.2006 ANCS-IJCCC [(subvenţie obţinută prin competiţie: 10000 lei).](http://dzitac.ro/files/contest/IJCCC2006.pdf)

### 11. International Projects

1. ”TAMARO”, Proiect UE transfrontalier Ungaria- Romania, TAMARO, HURO/0801, perioada   
01.01.2010-31.12.2010, http://www.tamaro.hu Director: Nagy Mariana, Valoare: (74.056 EUR) [(Membru).](http://dzitac.ro/files/contest/tamaro.pdf)   
2. ”Personalized e-Learning with Re-usable Functionality”, Contract No.7/UE & Greece Project:   
EPEAEK II/ Archimedes 2.2.17, Director: Athanasios Styliadis, Durata: 05.01.2004- 31.08.2007   
[(Membru).](http://dzitac.ro/files/contest/P1Greece2004-2007.pdf)   
3. ”GLOBE- Romania”, Grant/Int. Research Project/ 01.IX.2006, with Corvinus University of Bu-   
dapesta,  **(Director de subproiect în consortiu, Buget proiect (câștigat prin competiție): 11.250 EUR)**: [Argumentare](http://dzitac.ro/files/contest/1argGLOBE.pdf); [Rezumat](http://dzitac.ro/files/contest/3GLOBE_Rezumat.pdf); [Scrisoare de la Univ. Corvinus](http://dzitac.ro/files/contest/2GLOBE_Corvinus.pdf); [Raport final (v.pag.71).](http://dzitac.ro/files/contest/4GLOBE-ROMANIA%20report%20FINAL.pdf)   
4. ”Virtual Reality Laboratories”, Int. Contract UE & Greece Project: CofT / Contr. No. 4/VRlab,   
Director: Athanasios Styliadis,). Durata: 05.01.2004- 31.12.2005 [(Membru).](http://dzitac.ro/files/contest/P2Grecee2004-2005.pdf)   
5. ”The effect of tram and traffic induced vibrations in the Oradea urban conditions on the occurrence and development Sf. Mihail church on the Magheru Avenue”, Int. contract no. 737/18.11.2004, Universitatea din Oradea and Budapest University of Technology, Director Mircea Veres. Durata: 05.01.2004- 31.12.2005 [(Membru).](http://dzitac.ro/files/contest/Veres2004.pdf)

Date: 12.09.2020 Ioan DZITAC