

LISTA DE LUCRĂRI

1. Teza de doctorat: Măsuri în matematica fuzzy și aplicații, Universitatea Babeș-Bolyai, Iunie 2000.

2. Publicatii:

A) Cărți publicate, îndrumare/culegeri publicate

A1) **Adrian I. Ban**, Lucian Coroianu, Przemyslaw Grzegorzewski, *Fuzzy Numbers – Approximations, Ranking and Applications*, Polish Academy of Sciences, Warsaw, 2015, 203 pp. (ISBN: 978-83-63159-21-4)

A2) **Adrian I. Ban**, *Intuitionistic Fuzzy Measures: Theory and Applications*, Nova Science, New York, 2006, 275 pp. (ISBN: 1-59454-911-7)

A3) **Adrian I. Ban**, Sorin G. Gal, *Defects of Properties in Mathematics. Quantitative Characterizations*, World Scientific, London, New Jersey, Singapore, Hong Kong, 2002, 352 pp. (ISBN: 981-02-4924-1)

A4) **A. Ban**, S. Gal, *Elemente de Matematica Fuzzy (curs pentru studii aprofundate)*, Universitatea din Oradea, 1996, 129 pp.

A5) M. Balaj, **A. Ban**, *Curs de matematici aplicate*, Universitatea din Oradea, 1996, 130 pp.

A6) **A. I. Ban**, *Matematici aplicate în economie*, Universitatea din Oradea, 2007, 65 pp.

B) Capitole publicate în volume colective/volumele unor conferințe internaționale cu referenți

B1) **A. I. Ban**, *Intuitionistic fuzzy-valued fuzzy measures and integrals*, in: Issue in the Representation and Processing of Uncertain and Imprecise Information: Fuzzy Sets, Intuitionistic Fuzzy Sets, Generalized Nets and Related Topics (Krassimir T. Atanassov, Janusz Kacprzyk, Maciej Krawczak, Eulalia Szmidt, Eds.), Academic House Exit, Warszawa, 2005, 25-57.

B2) **A. I. Ban**, *A family of monotone measures on intuitionistic fuzzy sets with respect to Frank intuitionistic fuzzy t-norms*, in: Issue in the Representation and Processing of Uncertain and Imprecise Information: Fuzzy Sets, Intuitionistic Fuzzy Sets, Generalized Nets and Related Topics (Krassimir T. Atanassov, Janusz Kacprzyk, Maciej Krawczak, Eulalia Szmidt, Eds.), Academic House Exit, Warszawa, 2005, 58-71.

B3) **A. I. Ban**, *Nearest interval approximation of an intuitionistic fuzzy number*, in: Computational Intelligence, Theory and Applications (B. Reusch, Ed.), Springer, 2006, 229-240 (ISI).

B4) **A. I. Ban**, *Approximation of intuitionistic fuzzy numbers by trapezoidal fuzzy numbers preserving the expected interval*, in: Advances in Fuzzy Sets, Intuitionistic Fuzzy Sets, Generalized Nets and Related Topics. Volume I: Foundations (Krassimir T. Atanassov, Oligierd Hryniewicz, Janusz Kacprzyk, Maciej Krawczak, ..., Eulalia Szmidt, Eds.), Academic House Exit, Warszawa, 2008, 53-83.

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B6) **A.I. Ban**, L. Coroianu, *Ranking of L-R fuzzy numbers*, 2015 Annual Conference of the North American Fuzzy Information Processing Society (NAFIPS) held jointly with 2015 5th World Conference on Soft Computing (WConSC), pp. 1 - 6 (DOI: 10.1109/NAFIPS-WConSC.2015.7284130).

B7) **A.I. Ban**, A. Bica, L. Coroianu, *Metric properties of the extended weighted semi-trapezoidal approximations of fuzzy numbers and their applications*, S. Greco et al. (Eds.), IPMU 2012, Part III, Communications in Computer and Information Science, vol. 299, pp. 29-38, Springer-Verlag Berlin Heidelberg, 2012.

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3. Articole/studii publicate:

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- A2) K. T. Atanassov, **A. I. Ban**, *On an operator over intuitionistic fuzzy sets*, Comptes rendus de l'Academie bulgare des Sciences, Tome 53(2000), 39-42. (ISI)
- A3) **A. I. Ban**, S.G. Gal, *Decomposable measures and information measures for intuitionistic fuzzy sets*, Fuzzy Sets and Systems, 123(2001), 103-117. (ISI)
- A4) **A. I. Ban**, *Ergodicity of MV-dynamical systems*, Soft Computing, 5(2001), 327-333. (ISI)
- A5) **A. I. Ban**, S.G. Gal, *On the defect of additivity of fuzzy measures*, Fuzzy Sets and Systems, 127(2002), 351-362. (ISI)
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- A9) **A. I. Ban**, *Approximation of fuzzy numbers by trapezoidal fuzzy numbers preserving the expected interval*, Fuzzy Sets and Systems, 159 (2008), 1327-1344. (ISI)
- A10) Janusz Kacprzyk, **A. I. Ban**, Krassimir Atanassov, *On de-I-fuzzification of intuitionistic fuzzy sets*, Comptes Rendus de l'Academie Bulgare des Sciences, Tome 61, No. 12 (2008), 1535-1540. (ISI)
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- A14) **A. I. Ban**, L. Coroianu, *Metric properties of the nearest extended parametric fuzzy numbers and applications*, International Journal of Approximate Reasoning, 52 (2011), 488-500. (ISI)
- A15) **A. I. Ban**, A. Brandas, L. Coroianu, C. Negrutiu, O. Nica, *Approximations of fuzzy numbers by trapezoidal fuzzy numbers preserving the ambiguity and value*, Computers and Mathematics with Applications, 61 (2011), 1379-1401. (ISI)
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- A17) **A. I. Ban**, L. Coroianu, *Discontinuity of the trapezoidal fuzzy number-valued operators preserving core*, Computers and Mathematics with Applications, 62 (2011), 3103-3110. (ISI)
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- A19) **A. Ban**, L. Coroianu, *Nearest interval, triangular and trapezoidal approximation of a fuzzy number preserving ambiguity*, International Journal of Approximate Reasoning, 53 (2012), 805-836. (ISI)
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- A22) **A.I. Ban**, L. Coroianu, *Simplifying the search for effective ranking of fuzzy numbers*, IEEE Transactions on Fuzzy Systems, 23 (2015), 327-339. (ISI)
- A23) **A.I. Ban**, L. Coroianu, *Existence, uniqueness, calculus and properties of triangular approximations of fuzzy numbers under a general condition*, International Journal of Approximate Reasoning, 62 (2015), 1-26. (ISI)
- A24) **Adrian I. Ban**, Lucian Coroianu, Alireza Khastan, *Conditioned weighted L-R approximations of fuzzy numbers*, Fuzzy Sets and Systems, 283 (2016), 56-82. (ISI)

- A25) **A.I. Ban**, O. Ban, D. Tuse, *Calculation of the fuzzy importance of attributes based on the correlation coefficient, applied to the quality of hotel services*, Journal of Intelligent and Fuzzy Systems, 30(2016), 583-596. (ISI)
- A26) O. Ban, **A.I. Ban**, D. Tuse, *Importance-Performance Analysis by Fuzzy C-Means Algorithm*, Expert Systems with Applications, 50 (2016), 9-16. (ISI)
- A27) **A.I. Ban**, L. Coroianu, *Symmetric triangular approximations of fuzzy numbers under a general condition and properties*, Soft Computing, 20 (2016), 1249-1261. (ISI)

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- B2) **A. I. Ban**, *Convex temporal intuitionistic fuzzy sets*, Notes on Intuitionistic Fuzzy Sets, 3(1997), 77-81.
- B3) **A. I. Ban**, *Applications of conormed-seminormed fuzzy integrals*, Anal. Univ. Oradea, fasc. math., VI (1997-1998), 109-118.
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- B5) **A. I. Ban**, I. Fechet, *The application of t-measures of fuzziness*, Korean Journal of Computational and Applied Mathematics, 5(1998), 163-169.
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- B30) **A. I. Ban**, I. Fechetete, *Componentwise decomposition of intuitionistic L-fuzzy integrals and interval-valued intuitionistic fuzzy integrals*, Notes on Intuitionistic Fuzzy Sets, 13 (2007), 1-7.
- B31) **A. I. Ban**, *Trapezoidal approximations of intuitionistic fuzzy numbers expressed by value, ambiguity, width and weighted expected value*, Notes on Intuitionistic Fuzzy Sets, 14 (2008), 38-47.
- B32) **A. I. Ban**, L. Coroianu, *A method to obtain trapezoidal approximations of intuitionistic fuzzy numbers from trapezoidal approximations of fuzzy numbers*, Notes on Intuitionistic Fuzzy Sets, 15 (2009), 13-25.
- B33) **A. I. Ban**, *Chebyshev type inequalities for Sugeno integrals with respect to intuitionistic fuzzy measures*, Cybernetics and Information Technologies, 9 (2009), 5-13.
- B34) **A. I. Ban**, L. Coroianu, *Approximate solutions preserving parameters of intuitionistic fuzzy linear systems*, Notes on Intuitionistic Fuzzy Sets, 17 (2011), 58-70.
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- B36) Beloslav Riecan, **Adrian Ban**, Krassimir Atanassov, *Modifications of the weight-center operator, defined over intuitionistic fuzzy sets*, Part 3, Notes on Intuitionistic Fuzzy Sets, no. 3, vol. 19 (2013), pp. 20-24.
- B37) **A. I. Ban**, D. Tuşe, *Trapezoidal/triangular intuitionistic fuzzy numbers versus interval-valued trapezoidal/triangular fuzzy numbers and applications to multicriteria decision making methods*, Notes on Intuitionistic Fuzzy Sets, no. 2, vol. 20 (2014), pp. 43-51.

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