Lista de lucrări

1. Teza de doctorat

Titlul tezei: "FUZZY APPROXIMATION OPERATORS"
Instituţia: Universitatea "Babeş-Bolyai" din Cluj Napoca
Domeniul: Matematică
Coordonator: Prof. dr. Petru Blaga
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2. Cărţi de specialitate

1. A. I. Ban, **L. Coroianu**, P. Grzegorzewski, Fuzzy numbers: approximations, ranking and applications, Institute of Computer Science, Polish Academy of Science, 2015, ISBN: 978-83-63159-21-4, 208 pagini.
2. B. Bede, **L. Coroianu**, S. G. Gal, Approximation by Max-Product type operators, Springer, 2016, ISBN: 978-3-319-34189-7.
3. **L. Coroianu**, Interactive arithmetic and metrical structures on fuzzy numbers, Editura Universităţii din Oradea, 2015, ISBN: 978-606-10-1698-3, 90 pagini.

3. Cursuri

1. A. M. Bica, A Cătaş, **L. Coroianu,** Curs de analiză matematică, Editura Universităţii din Oradea, 2019, ISBN: 978-606-10-2024-9, 182 pagini.

4. Materiale didactice

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2. **L. Coroianu**, Statistică matematică, suport de curs, 6 fisiere pdf.
3. **L. Coroianu**, Standard and interactive operations on fuzzy numbers, suport de seminar, 12 pagini.

5. Citări

742 citări în Google Scholar (29 Ianuarie, 2019)
Google Scholar H-index: 16 (29 Ianuarie, 2019)
315 citări în Web of Science din care 215 sunt independente (29 Ianuarie, 2019)
Web of Science H-index: 11 (29 Ianuarie, 2019)

6. Selecţie 10 articole relevante

1. **L. Coroianu**, S. G. Gal, Classes of functions with improved estimates in approximation by the max-product Bernstein operator, Analysis and Applications, 9 (2011) 249-274.

2. **L. Coroianu**, Lipschitz functions and fuzzy number approximations, Fuzzy Sets and Systems, 200 Issue 1 (2012), 116-135.

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4. **L. Coroianu**, S. G. Gal, Localization results for the Bernstein max-product operator, Applied Mathematics and Computation, 231 (2014) 73-78.

5. A. I. Ban, **L. Coroianu**, Simplifying the search for effective ranking of fuzzy numbers, IEEE Transactions on Fuzzy Systems, 23 (2015) 327-339.

6. **L. Coroianu**, Necessary and sufficient conditions for the equality of the interactive and non-interactive sums of two fuzzy numbers, Fuzzy Sets and Systems, 283 (2016) 40-55.

7. **L. Coroianu**, Best Lipschitz constants of solutions of quadratic programs, Journal of Optimization Theory and Applications, 170 (2016) 853-875.

8. **L. Coroianu**, R. Fullér, On the constrained OWA aggregation problem with single constraint, Fuzzy Sets and Systems, 332 (2018) 37-43.

9. **L. Coroianu**, S. G. Gal, Approximation by truncated max-product operators of Kantorovich type based on generalized (ϕ, ψ)- kernels, Mathematical Methods in the Applied Sciences, 41 (2018) 7971-7984.

10. **L. Coroianu**, L. Stefanini, Properties of fuzzy transform obtained from L_p minimization and a connection with Zadeh's extension principle, Information Sciences, 478 (2019) 331-354.

7. Articole publicate în reviste indexate ISI

IF înseamnă ultimul factor de impact iar SRI înseamnă ultimul scor relativ de influenţă

1. G. Anatassiou, S. G. Gal, **L. Coroianu**, Approximation by a nonlinear Cardaliaguet-Euvrard neural network operator of max-product kind, Journal of Computational Analysis and Applications, 12 No. 2 (2010) 396-406. IF=0.609, SRI=0.

2. B. Bede, **L. Coroianu**, S. G. Gal, Approximation and shape preserving properties of the nonlinear Favard-Szasz-Mirakjan operator of max-product kind, Filomat, 24 Issue 3 (2010), No. 3, 55-72. IF=0.635, SRI=0.343.

3. B. Bede, **L. Coroianu**, S. G. Gal, Approximation and shape preserving properties of the nonlinear Meyer-Konig and Zeller operator of max-product kind, Numerical Functional Analysis and Optimization, 31 Issue 3 (2010), 232-253. IF=0.827, SRI=0.733.

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5. **L. Coroianu**, Best Lipschitz constant of the trapezoidal approximation operator preserving the expected interval, Fuzzy Sets and Systems, 165 Issue 1 (2011) 81-97. IF=2.675, SRI=1.231.

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7. A. I. Ban, A. Brandas, **L. Coroianu**, O. Nica, C. Negrutiu, Approximations of fuzzy numbers by trapezoidal fuzzy numbers preserving the ambiguity and value, Computers and Mathematics with Applications, 161 (2011) 1379-1401. IF=1.86, SRI=1.153.

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13. **L. Coroianu**, Lipschitz functions and fuzzy number approximations, Fuzzy Sets and Systems, 200 (2012), 116-135. IF=2.675, SRI=1.165.

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15. M. Balaj, **L. Coroianu**, S. G. Gal, S. Muresan, Iterations and fixed points for Bernstein max-product operator, Fixed Point Theory 14 (2013) 39-52. IF=0.548,SRI=0.263.

16. **L. Coroianu**, S.G. Gal, Localization results for the Meyer-Konig and Zeller operator of max-product kind, Numerical Functional Analysis and Optimization 34, (2013) 713-727. IF=0.827, SRI=0.733.

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24. **L. Coroianu**, Necessary and sufficient conditions for the equality of the interactive and non-interactive sums of two fuzzy numbers, Fuzzy Sets and Systems, 283 (2016) 40-55. IF=2.675, SRI=1.231.

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31. **L. Coroianu**, R. Fullér, On the constrained OWA aggregation problem with single constraint, Fuzzy Sets and Systems, 332 (2018) 37-43. IF=2.675, SRI=1.231.

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33. **L. Coroianu**, R. Fullér, Nguyen type theorem for extension principle based on a joint possibility distribution, International Journal of Approximate Reasoning, 95 (2018) 22-35. IF=1.766, SRI=1.237

34. A. I. Ban, **L. Coroianu**, Explicit analytical formulae of ranking indices without the requirement of multiplicative compatibility, International Journal of Approximate Reasoning, 97 (2018) 17-37. IF=1.766, SRI=1.237

35. **L. Coroianu**, S. G. Gal, Approximation by truncated max-product operators of Kantorovich type based on generalized (ϕ, ψ)- kernels, Mathematical Methods in the Applied Sciences, 41 (2018) 7971-7984. IF=1.18, SRI=0.745.

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2. Adrian I. Ban and 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.

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8. L. Coroianu, S. G. Gal, Approximation by max-product Langrage interpolation operators, Studia Univ. Babes-Boliay, Mathematica 56 No 2 (2011) 315-325.

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16. L. Coroianu, S. G. Gal, Localization results for the non-truncated max-product sampling operators based on Fejer and Sinc-type kernels, Demonstratio Mathematica, se va publica in volumul 49 (2016), 38-49.

9. Lucrări publicate în volume ale unor conferinţe pe baza unui proces de referare

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2. A.I. Ban and **L. Coroianu**, Triangular, trapezoidal and parametric approximations of intuitionistic fuzzy numbers and applications, Ninth International workshop on Intuitionistic Fuzzy Sets and Generalized Nets, Warsaw, October 8, 2010.

3. **L. Coroianu**, S. G. Gal, B. Bede, Approximations of fuzzy numbers by nonlinear Bernstein operators of max-product kind, EUSFLAT-LFA Conference, France, Aix-Les-Bains, 18-23 July 2011, pp 734-741.

4. A. I. Ban, **L. Coroianu**, Translation invariance and scale invariance of approximations of fuzzy numbers, EUSFLAT-LFA Conference, France, Aix-Les-Bains, 18-23 July 2011, pp 742-748.

5. A. I. Ban, A. M. Bica, **L. Coroianu**, Metric Properties of the Extended Weighted Semi-trapezoidal Approximations of Fuzzy Numbers and Their applications. Advances in Computational Intelligence, Communications in Computer and Information Science, 299 (2012) 29-38.

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7. A. I. Ban, **L. Coroianu**, P. Grzegorzewski. A fixed-shape fuzzy median of a fuzzy sample. Proceedings of the 8th conference of the European Society for Fuzzy Logic and Technology (EUSFLAT-20313), Milano, Italy, September 10-12, 2013, pp. 215-222.

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9. **L. Coroianu**, R. Fullér, On Additivity of the Weighted Possibilistic Mean Operator, Fourteenth IEEE International Symposium on Computational Intelligence and Informatics, November 19-21, 2013, Budapest, Hungary, pp. 303-308.

10. **L. Coroianu**, M. Gagolewski, P. Grzegorzewski, M. Adabitabar Firozja, T. Houlari, Piecewise linear approximation of fuzzy numbers preserving the support and core, Communications in Computer and Information Science, 443 (2014) 244-253.

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13. A. I. Ban, **L. Coroianu**, Ranking of L-R fuzzy numbers, Annual Conference of the North American Fuzzy Information Processing Society NAFIPS (2015), Redmond, USA.

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15. **L. Coroianu**, R. Fullér, Characterization of the level sets for interactive additions, 17-th International Symposium on Computational Intelligence and Informatics (CINTI 2016), November 17-19, Budapest, Hungary, pp. 35-40.

16. **L. Coroianu**, R. Fuller, Minimum of constrained OWA aggregation problem with a single constraint, WILF 2018 conference, Genova, Italy, 2018 (to be published).

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