

**FIȘA DE VERIFICARE
A ÎNDEPLINIRII CERINȚELOR ȘI STANDARDELOR MINIMALE
pentru ocuparea posturilor didactice și de cercetare**

Domeniul MATEMATICĂ

I DATE DESPRE CANDIDAT

NUMELE: Coroianu

PRENUMELE: Lucian

CNP:

Postul pentru care candidează: Profesor universitar

Disciplinele: Algoritmi de aproximare; Statistică matematică; Analiză numerică; Tehnici de optimizare

Poziția în Statul de funcții: 7

Departamentul: Matematică și Informatică

Facultatea: Informatică și Științe

Gradul didactic actual: Conferențiar universitar

Poziția în Statul de funcții: 13

Disciplinele: Tehnici de optimizare; Analiză matematică și algebră; Algebră I; Algebră II; Metode numerice pentru ecuații operatoriale; Grafică pe calculator; Analiză matematică; Statistică matematică

Departamentul: Matematică și Informatică

Facultatea: Informatică și Științe

Universitatea: Universitatea din Oradea

II DATE PRIVIND ÎNDEPLINIREA CONDIȚIILOR DE CONCURS

1. Studii universitare de licență și masterat

Nr. crt.	Instituția de învățământ superior	Domeniul	Perioada	Titlul acordat
1	Universitatea Babeș-Bolyai	Matematică	1994-1998	Licențiat în matematică
2	Universitatea Babeș-Bolyai	Matematică	1998-1999	Diplomă de Studii Aprofundate
3	Universitatea din Oradea	Matematică	2007-2009	Diplomă de master

*candidatul trebuie să aibă studii de licență și master în domeniul Matematică

2. Studii universitare de doctorat

Nr. crt.	Instituția organizatoare de doctorat	Domeniul	Perioada	Titlul științific acordat
1	Universitatea Babeș-Bolyai	Matematică	2010-2013	Doctor în matematică

*candidatul trebuie să aibă studii de doctorat în domeniul Matematică

3. Studii și burse postdoctorale

Nr. crt.	Instituția organizatoare	Domeniul	Perioada	Obs.
1	Universitatea Óbuda din Budapesta, Ungaria	Abilitare în domeniul Științei Informaticii	2023	
2	Universitatea Óbuda din Budapesta, Ungaria	Abilitare în domeniul Matematică	2024	

4. Grade didactice/profesionale

Nr. crt.	Instituția	Domeniul	Perioada	Titlul/funcția didactică/ gradul profesional
1	Universitatea din Oradea	Matematică	2009-2016	Asistent universitar
2	Universitatea din Oradea	Matematică	2016-2019	Lector universitar dr.
3	Universitatea din Oradea	Matematică	2019-prezent	Conferențiar universitar dr.

III DATE PRIVIND ÎNDEPLINIREA CERINȚELOR ȘI STANDARDELOR

1. Asistent universitar

- a) candidatul să dețină titlul/diploma de doctor sau să fie înmatriculat la un program de studii doctorale, fără depășirea perioadei maxime de studii, care include prelungirile admisibile conform legii;
- b) publicarea a minimum 1 lucrare (articol, studiu), în extenso, în reviste de specialitate sau în volume ale unor manifestări științifice naționale sau internaționale.
- c) alte standarde suplimentare, specifice fiecărei facultăți/departament/centru, prevăzute în procedura proprie a facultății, aprobate de senatul universitar al UO, fără impunerea unor condiții de vechime, conform legii:
 - media anilor de studii la programul de licență să fie cel puțin 8,50

Articole publicate în reviste de specialitate sau în volume ale unor manifestări științifice naționale sau internaționale

Nr.crt.	Titlu	Autori	Date despre revistă/conferință
		Total (prin însumare)	N₁=

Media la examenul de licență asumată de candidat: **M** = _____

**ÎNDEPLINIT /
NEÎNDEPLINIT**

2. Lector universitar/șef de lucrări

- a) deținerea titlului/diplomei de doctor;
- b) publicarea a minimum 5 lucrări (articole, studii), în extenso, în reviste de specialitate sau în volume ale unor manifestări științifice naționale sau internaționale.
- c) elaborarea, cel puțin în format electronic, a unui material didactic de specialitate, postat pe platforma e-learning a UO (e.uoradea.ro), în domeniul disciplinelor postului, sau a unei cărți de specialitate, în domeniul postului;
- d) alte standarde suplimentare, specifice fiecărei facultăți/departament/centru, prevăzute în procedura proprie a facultății, aprobate de senatul universitar al UO, fără impunerea unor condiții de vechime, conform legii:
 - minimum două dintre lucrări să fie în reviste cotate ISI.

Articole publicate în reviste de specialitate sau în volume ale unor manifestări științifice naționale sau internaționale

Nr crt	Titlu	Autori	Date despre revistă/conferință	Revistă cotate ISI ¹ DA/NU

Total (prin însumare)		Articole	N₁=	
		Articole în reviste ISI	N_{ISI} =	

Material didactic de specialitate sau cărți de specialitate în domeniul disciplinelor postului

Nr.crt.	Date lucrare (Autori, titlu, anul, nr. pagini)	Editura	ISBN
Total (prin însumare)		N₂=	

**ÎNDEPLINIT /
NEÎNDEPLINIT**

3. Conferențiar universitar

- a) deținerea titlului/diplomei de doctor;
- b) îndeplinirea standardelor minime naționale pentru ocuparea funcției de conferențiar universitar, standarde aprobate potrivit art. 156 din Legea învățământului superior nr. 199/2023, cu modificările și completările ulterioare:

Standard CNATDCU	Punctaj obținut de candidat
$S \geq 2,5$	$S_{\text{candidat}} =$
$S_{\text{rec}} \geq 1,5$	$S_{\text{rec candidat}} =$
$C \geq 6$	$C_{\text{candidat}} =$

- c) alte standarde suplimentare, specifice fiecărei facultăți/departament/centru, prevăzute în procedura proprie a facultății, aprobate de senatul universitar al UO, fără impunerea unor condiții de vechime, conform legii:

- a publicat, ca autor sau co-autor, cel puțin o carte cu caracter științific în domeniul disciplinelor postului tipărită sau în format electronic postată pe platforma e-learning a UO
- are, cumulativ, cel puțin cel puțin 3 lucrări de tipul:
 - lucrări (articole, studii) scrise în colaborare cu studenți/doctoranzi
 - lucrări coordonate de finalizare a studiilor de licență/master

Articole de specialitate în domeniul disciplinelor postului în reviste cotate ISI¹ cu $SRP^2 \geq 0,5$ (a se vedea Tabelul 1)

Nr crt	Date lucrare (Autori, titlu, revista, volum, pagini, anul)	SRI	Publicat în ultimii 7 ani DA/NU	Calcul detaliat (SRI/număr autori)
Total parțial (pentru articole din ultimii 7 ani, prin însumare)				S_{rec}=
TOTAL (prin însumare)				S=

Citări provenind din articole publicate în reviste științifice cotate ISI cu SRI $\geq 0,5$ (autocitățile sunt excluse) (a se vedea Tabelul 1)

Nr crt	Articolul citat (Autori, titlu, revista, volum, pagini, anul)	Revista și articolul în care a fost citat	Factor SRI al revistei unde a fost citat
Total citări			C =

Cărți științifice de specialitate în domeniul disciplinelor postului publicate ca autor sau co-autor

Nr.crt.	Date lucrare (Autori, titlu, , anul, nr. pagini)	Editura	ISBN
TOTAL (prin însumare)			N₁ =

Lucrări publicate cu studenți/doctoranzi în reviste de specialitate sau prezentate în cadrul unor conferințe de specialitate internaționale sau naționale

Nr.crt	Titlu	Autori	Date despre revistă/conferință
Total (prin însumare)		N_{2.1}=	

Coordonarea lucrărilor de finalizare a studiilor de licență/master

Nr.crt	Titlul lucrării	Specializare/ An universitar
Total (prin însumare)		N_{2.2}=

**ÎNDEPLINIT /
NEÎNDEPLINIT**

4. Profesor universitar

- a) deținerea titlului/diplomei de doctor;
- b) deținerea atestatului de abilitare;
- c) îndeplinirea standardelor minime pentru ocuparea funcției de profesor universitar, standarde aprobate conform art. 156 din Legea învățământului superior nr. 199/2023, cu modificările și completările ulterioare:

Standard CNATDCU	Punctaj obținut de candidat
$S \geq 5$	$S = 37.137$
$S_{\text{rec}} \geq 2,5$	$S_{\text{rec}} = 16.068$
$C \geq 12$	$C = 403$

- d) alte standarde suplimentare, specifice fiecărei facultăți/departament/centru, prevăzute în procedura proprie a facultății, aprobate de senatul universitar al UO, fără impunerea unor condiții de vechime, conform legii:
 - a publicat, ca autor sau co-autor, de la data ocupării funcției didactice actuale, cel puțin o carte cu caracter științific în domeniul disciplinelor postului tipărită sau în format electronic postată pe platforma e-learning a UO
 - are, cumulativ, cel puțin cel puțin 3 lucrări de tipul:
 - lucrări (articole, studii) scrise în colaborare cu studenți/doctoranzi
 - lucrări coordonate de finalizare a studiilor de licență/master

Articole de specialitate în domeniul disciplinelor postului în reviste cotate ISI¹ cu $SRI^2 \geq 0,5$ (a se vedea Tabelul 1)

Nr crt	Date lucrare (Autori, titlu, revista, volum, pagini, anul)	SRI	Publicat în ultimii 7 ani DA/NU	Calcul detaliat (SRI/număr autori)
1.	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.	0.909 (JCR2023) Q3	NU	0.303

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, 12 No.2 (2010), 396-406.	0.540 (JCR2023) Q4	NU	0.180
3.	L. Coroianu, Best Lipschitz constant of the trapezoidal approximation operator preserving the expected interval, Fuzzy Sets and Systems, 165 Issue 1 (2011) 81-97.	1.428 (JCR2022) Q2	NU	1.428
4.	M. Balaj, L. Coroianu, Matching theorems and simultaneous relation problems, Bulletin of the Korean Mathematical Society, 48 (2011), 939-949.	0.690 (JCR2023) Q3	NU	0.345
5.	A. I. Ban, A. Brândaş, L. Coroianu, O. Nica, C. Negruțiu, Approximations of fuzzy numbers by trapezoidal fuzzy numbers preserving the ambiguity and value, Computers and Mathematics with Applications, 61 (2011) 1379-1401.	1.557 (JCR2023) Q2	NU	0.311
6.	A. I. Ban, L. Coroianu, Metric properties of the nearest extended parametric fuzzy number and applications, International Journal of Approximate Reasoning, 52 (2011) 488-500.	1.212 (JCR2023) Q2	NU	0.606
7.	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.	2.934 (JCR2023) Q1	NU	1.467
8.	A. I. Ban, L. Coroianu, P. Grzegorzewski, Trapezoidal	1.428 (JCR2022)	NU	0.476

	approximation and aggregation, Fuzzy Sets and Systems, 177 (2011) 45-59.	Q2		
9.	B. Bede, L. Coroianu, S. G. Gal, Approximation by truncated Favard-Szasz-Mirakjan operator of max-product kind, Demonstratio Mathematica, XLIV No.1 (2011), 105-122	0.881 (JCR2023)	NU	0.293
10.	A. I. Ban, L. Coroianu, Discontinuity of the trapezoidal fuzzy number-valued operators preserving core, Computers and Mathematics with Applications, 62 (2011) 3103-3110.	1.557 (JCR2023) Q2	NU	0.778
11.	B. Bede, L. Coroianu, S. G. Gal, Approximation and shape preserving properties of the truncated Baskakov operator of max-product kind, Revista de la Union Matematica Argentina, 52 Issue 1 (2011), 89-107.	0.724 (JCR2023) Q3	NU	0.241
12.	L. Coroianu, Lipschitz functions and fuzzy number approximations, Fuzzy Sets and Systems, 200 (2012), 116-135.	1.428 (JCR2022) Q2	NU	1.428
13.	A. I. Ban, L. Coroianu, Nearest interval, triangular and trapezoidal approximation of fuzzy number preserving ambiguity, International Journal of Approximate Reasoning, 5 (2012), 805-836.	1.212 (JCR2023) Q2	NU	0.606
14.	M. Balaj, L. Coroianu, S. G. Gal, S. Muresan, Iterations and fixed points for the Bernstein max-product operator, Fixed Point Theory, 14 Issue 1 (2013), 39-52.	0.766 (JCR2020)	NU	0.191

15.	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.	0.909 (JCR2023) Q3	NU	0.454
16.	L. Coroianu, M. Gagolewski, P. Grzegorzewski, Nearest piecewise linear approximation of fuzzy numbers, Fuzzy Sets and Systems, 233 (2013) 26-51.	1.428 (JCR2022) Q2	NU	0.476
17.	L. Coroianu, S. G. Gal, Localization results for the Bernstein max-product operator, Applied Mathematics and Computation, 231 (2014) 73-78.	1.600 (JCR2023) Q2	NU	0.800
18.	L. Coroianu, S. G. Gal, B. Bede, Approximation of fuzzy numbers by max-product Bernstein operators, Fuzzy Sets and Systems 257 (2014) 41-66.	1.428 (JCR2022) Q2	NU	0.476
19.	A. I. Ban, L. Coroianu, Existence, uniqueness and continuity of trapezoidal approximation under a general condition, Fuzzy Sets and Systems 257 (2014) 3-22.	1.428 (JCR2022) Q2	NU	0.714
20.	L. Coroianu, S. G. Gal, Saturation and inverse results for the Bernstein max-product operator, Periodica Mathematica Hungarica, 69 (2014) 126-133.	1.116 (JCR2023) Q3	NU	0.558
21.	A. I. Ban, L. Coroianu, Simplifying the search for effective ranking of fuzzy numbers, IEEE Transactions on Fuzzy Systems, 23 (2015) 327-339.	5.080 (JCR2023) Q1	NU	2.540

22.	A. I. Ban, L. Coroianu, Existence, uniqueness, calculus and properties of triangular approximation under a general condition, International Journal of Approximate Reasoning, 62 (2015) 1-26.	1.212 (JCR2023) Q2	NU	0.606
23.	L. Coroianu, S. G. Gal, Localization results for the max-product sampling operators based on Fejer and Sinc-type kernels, Demonstratio Mathematica, 49 (2016), 38-49.	0.881 (JCR2023)	NU	0.440
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.	1.428 (JCR2022) Q2	NU	1.428
25.	A. I. Ban, L. Coroianu, A. Khastan, Conditioned weighted L-R approximations of fuzzy numbers, Fuzzy Sets and Systems, 283 (2016) 40-55.	1.428 (JCR2022) Q2	NU	0.476
26.	L. Coroianu, L. Stefanini, General approximation of fuzzy numbers by F-transform, Fuzzy Sets and Systems, 288 (2016), 46-74.	1.428 (JCR2022) Q2	NU	0.714
27.	A. I. Ban, L. Coroianu, Symmetric triangular approximations of fuzzy numbers under a general condition, Soft Computing, 20 (2016), 1249-1261	0.972 (JCR2019) Q3	NU	0.486
28.	L. Coroianu, Best Lipschitz constants of solutions of quadratic programs, Journal of Optimization Theory and Applications, 170 (2016) 853-875.	1.636 (JCR2023) Q2	NU	1.636

29.	L. Coroianu, S.G. Gal, B. D. Opris, S. Trifa, Feller's Scheme in Approximation by Nonlinear Possibilistic Integral Operators, Numerical Functional Analysis and Optimization, 38 (2017) 327-343.	0.909 (JCR2023) Q3	NU	0.227
30.	L. Coroianu, S. G. Gal, L^p -approximation by truncated max-product sampling operators of Kantorovich-type based on Fejer kernel, Journal of Integral Equations and Applications, 29 (2017) 349-364.	0.771 (JCR2021) Q3	NU	0.385
31.	L. Coroianu, R. Fullér, On the constrained OWA aggregation problem with single constraint, Fuzzy Sets and Systems, 332 (2018) 37-43.	1.428 (JCR2022) Q2	DA	0.714
32.	L. Coroianu, R. Fullér, Necessary and sufficient conditions for the equality of interactive and non-interactive extensions of continuous functions, Fuzzy Sets and Systems, 331 (2018) 116-130	1.428 (JCR2022) Q2	DA	0.714
33.	L. Coroianu, R. Fullér, Nguyen type theorem for extension principle based on a joint possibility distribution, International Journal of Approximate Reasoning, 95 (2018)	1.212 (JCR2023) Q2	DA	0.606
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	1.212 (JCR2023) Q2	DA	0.606

35.	L. Coroianu, S. G. Gal, Approximation by truncated max-product operators of Kantorovich-type based on generalized (ϕ, φ) -kernels, Mathematical Methods in the Applied Sciences, 41 (2018) 7971-7984.	0.923 (JCR2023) Q3	DA	0.461
36.	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.	2.615 (JCR2023) Q1	DA	1.307
37.	L. Coroianu, M. Gagolewski, P. Grzegorzewski, Piecewise linear approximations of fuzzy numbers: algorithms, arithmetic operations and stability of characteristics, Soft Computing, 23 (2019) 9491-9505.	0.972 (JCR2019) Q3	DA	0.324
38.	L. Coroianu, D. Costarelli, S. G. Gal, G. Vinti, The max-product generalized sampling operators: convergence and quantitative estimates, Applied Mathematics and Computation, 355 (2019) 173-183.	1.600 (JCR2023) Q2	DA	0.400
39.	S. V. Oprea, A. Bara, G. A. Ifrim, L. Coroianu, Day-ahead electricity consumption optimization algorithms for smart homes, Computers and Industrial Engineering, 135 (2019) 382-401.	2.257 (JCR2023) Q1	DA	0.551
40.	L. Coroianu, D. Costarelli, S. G. Gal, G. Vinti, Approximation by multivariate max-product Kantorovich-type	1.246 (JCR2023) Q2	DA	0.311

	operators and learning rates of least-squares regularized regression, Communications on Pure and Applied Analysis, 19 (2020) 4213-4225.			
41.	L. Coroianu, R. Fullér, M. Gagolewski, S. James, Constrained ordered weighted averaging aggregation with multiple comonotone constraints, Fuzzy Sets and Systems, 395 (2020) 21-39.	1.428 (JCR2022) Q2	DA	0.357
42.	S.V. Oprea, A. Bara, D. Preotescu, R. A. Bologa, L. Coroianu, A Trading Simulator Model for the Wholesale Electricity Market, IEEE Access, 8 (2020) 184210-184230.	1.529 (JCR2019)	DA	0.305
43.	L. Coroianu, Trapezoidal approximations of fuzzy numbers using quadratic programs, Fuzzy Sets and Systems, 417 (2021), 71-92.	1.428 (JCR2022) Q2	DA	1.428
44.	L. Coroianu, D. Costarelli, S.G. Gal, G. Vinti, Approximation by max-product sampling Kantorovich operators with generalized kernels, Analysis and Applications, 19 Issue 2 (2021), 219-244.	2.934 (JCR2023) Q1	DA	0.733
45.	L. Coroianu, D. Costarelli, S.G. Gal, G. Vinti, Connections between the Approximation Orders of Positive Linear Operators and their Max-Product Counterparts, Numerical Functional Analysis and Optimization, 42 Issue 11 (2021), 1263-1286.	0.909 (JCR2023) Q3	DA	0.227

46.	L. Coroianu, S. G. Gal, On the inequalities of Turán, Bernstein and Erdős-Lax, Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales. Serie A. Matematicas, 115 (2021), 1-20.	1.299 (JCR2023) Q2	DA	0.649
47.	M. Cantarini, L. Coroianu, D. Costarelli, S.G. Gal, G. Vinti, Inverse results of approximation for the max-product network operators of the Kantorovich type and their saturation order, Mathematics, 10 Issue 1, Article 63, 2022	0.860 (JCR2023)	DA	0.172
48.	L. Coroianu, D. Costarelli, U. Kadak, Quantitative Estimates for Neural Network Operators Implied by the asymptotic Behaviour of the Sigmoidal Activation Functions, Mediterranean Journal of Mathematics, 19 Issue 5, Article 211, 2022	1.128 (JCR2023) Q3	DA	0.376
49.	L. Coroianu, R. Fullér, I. A. Harmati, Best approximation of OWA Olympic weights under predefined level of orness, Fuzzy Sets and Systems, 448, 127-144, 2022.	1.428 (JCR2022) Q2	DA	0.476
50.	L. Coroianu, R. Fullér, An iterative approach for the solution of the constrained OWA aggregation problem with two comonotone constraints, Information, 13 issue 10 (2022), article no. 443.	0.920	DA	0.460
51.	U. Kadak, L. Coroianu, Integrating multivariate fuzzy neural networks into fuzzy inference system for enhanced	1.428 (JCR2022) Q2	DA	0.714

	decision making, Fuzzy Sets and Systems, 470 (2023), 108668.			
52.	U. Kadak, D. Costarelli, L. Coroianu, Neural network operators of generalized fractional integrals equipped with a vector-valued function, Chaos, Solitons and Fractals, 177 (2023), 114272.	2.503 (JCR2023) Q1	DA	0.834
53.	I. A. Harmati, L. Coroianu, R. Fullér, The median under orness, Fuzzy Sets and Systems, 481 (2024), 108901,	1.428 (JCR2022) Q2	DA	0.476
54.	I. A. Harmati, L. Coroianu, R. Fullér, Wasserstein distance for OWA operators, Fuzzy Sets and Systems, 484 (2024), 108931.	1.428 (JCR2022) Q2	DA	0.476
55.	L. Coroianu, D. Costarelli, Best approximation and inverse results for neural network operators, Results in Mathematics, 79 (5) (2024), article no. 193.	1.193 (JCR2023) Q2	DA	0.596
56.	L. Coroianu, Bernstein inequalities for quaternionic polynomials in the setting of generalized polynomials, Journal of Mathematical Analysis and Applications, 538 (1) (2024), 128383.	1.472 (JCR2023) Q2	DA	1.472
57.	L. Coroianu, D. Costareli, M. Natale, A. Pantiş, The approximation capabilities of Durrmeyer-type neural network operators, Journal of Applied Mathematics and Computing, 70, 4581-4599, 2024.	1.292 (JCR2023) Q2	DA	0.323

Total parțial (pentru articole din ultimii 7 ani, prin însumare)

S_{rec}=16.068

TOTAL (prin însumare)

S=37.137

Citări provenind din articole publicate în reviste științifice cotate ISI¹ cu SRI² $\geq 0,5$
(autocitățile sunt excluse) (a se vedea Tabelul 1)

Nr crt	Articolul citat (Autori, titlu, revista, volum, pagini, anul)	Revista și articolul în care a fost citat	Factor SRI al revistei unde a fost citat
1	A. I. Ban, A. Brândaș, L. Coroianu , O. Nica. C. Negruțiu, Approximations of fuzzy numbers by trapezoidal fuzzy numbers preserving the ambiguity and value, Computers and Mathematics with Applications, 61 (2011) 1379-1401.	Note on "symmetric triangular approximations of fuzzy numbers under a general condition and properties" By: Yeh, Chi-Tsuen SOFT COMPUTING Volume: 22 Issue: 7 Pages: 2133-2137 Published: APR 2018	0.972 (JCR2019)
2	A. I. Ban, A. Brândaș, L. Coroianu , O. Nica. C. Negruțiu, Approximations of fuzzy numbers by trapezoidal fuzzy numbers preserving the ambiguity and value, Computers and Mathematics with Applications, 61 (2011) 1379-1401.	Competition ability evaluation of power generation enterprises using a hybrid MCDM method under fuzzy and hesitant linguistic environment By: Li, Rong ; Dong, Jun ; Wang, Dongxue JOURNAL OF RENEWABLE AND SUSTAINABLE ENERGY Volume: 10 Issue: 5 Article Number: 055905 Published: SEP 2018	0.560 (JCR 2022)
3	A. I. Ban, A. Brândaș, L. Coroianu , O. Nica. C. Negruțiu, Approximations of fuzzy numbers by trapezoidal fuzzy numbers preserving the ambiguity and value, Computers and Mathematics with Applications, 61 (2011) 1379-1401.	Ranking of Multidimensional Uncertain Information Based on Metrics on the Fuzzy Ellipsoid Number Space By: Wang, Guixiang; Li, Yun IEEE TRANSACTIONS ON FUZZY SYSTEMS Volume: 25 Issue: 1	5.080 (JCR2023)

		ssue: 3 Pages: 614-626 Published: JUN 2017	
4	A. I. Ban, A. Brândaș, L. Coroianu , O. Nica. C. Negruțiu, Approximations of fuzzy numbers by trapezoidal fuzzy numbers preserving the ambiguity and value, Computers and Mathematics with Applications, 61 (2011) 1379-1401.	<u>Existence of interval, triangular, and trapezoidal approximations of fuzzy numbers under a general condition</u> By: Yeh, Chi-Tsuen FUZZY SETS AND SYSTEMS Volume: 310 Pages: 1-13 Published: MAR 1 2017	1.428 (JCR2022)
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388	U. Kadak, D. Costarelli, L. Coroianu , Neural network operators of generalized fractional integrals equipped with a vector-valued function, Chaos, Solitons and Fractals, 177 (2023), 114272.	Approximation using Jakimovski-Leviatan operators of Durrmeyer type with 2D-Appell polynomials Kumar, M ; Raza, N and Mursaleen, M Apr 15 2025 JOURNAL OF INEQUALITIES AND APPLICATIONS 2025 (1) Article number:50	0.812 (JCr2023)
389	L. Coroianu , S. G. Gal, On the inequalities of Turán, Bernstein and Erdős-Lax, Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales. Serie A. Matematicas, 115 (2021), 1-20.	On the Zeros of a Quaternionic Polynomial: An Extension of the Enestrom-Kakeya Theorem Mir, A Oct 2023 CZECHOSLOVAK MATHEMATICAL JOURNAL 73 (3) , pp.649-662	0.567 (JCR2023)
390	L. Coroianu , D. Costareli, M. Natale, A. Pantiş, The approximation capabilities of Durrmeyer-type neural network operators, Journal of Applied Mathematics and Computing,70, 4581-4599, 2024.	Multivariate Neural Network Operators: Simultaneous Approximation and Voronovskaja-Type Theorem Cantarini, M and Costarelli, D Jul 30 2025	0.923 (JCR2023)

		MATHEMATICAL METHODS IN THE APPLIED SCIENCES 48 (11) , pp.10669-10677	
391	L. Coroianu , D. Costareli, M. Natale, A. Pantiş, The approximation capabilities of Durrmeyer-type neural network operators, Journal of Applied Mathematics and Computing,70, 4581-4599, 2024	Enhanced function approximation and applications to image scaling: A new family of exponential sampling neural network Kantorovich operators Agrawal, PN ; Baxhaku, B and Berisha, A Apr 2025 APPLIED SOFT COMPUTING 174 Article number:112923	2.071 (JCR2023)
392	L. Coroianu , D. Costarelli, Best approximation and inverse results for neural network operators, Results in Mathematics, 79 (5) (2024), article no. 193.	Fuzzy neural network interpolation operators on fuzzy number valued functions endowed with weak types of continuity Font, JJ ; Macario, S and Sanchis, M Jun 15 2025 FUZZY SETS AND SYSTEMS 510 Article number:109365	1.428 (JCR2022)
393	U. Kadak, D. Costarelli, L. Coroianu , Neural network operators of generalized fractional integrals equipped with a vector-valued function, Chaos, Solitons and Fractals, 177 (2023), 114272.	Fuzzy neural network interpolation operators on fuzzy number valued functions endowed with weak types of continuity Font, JJ ; Macario, S and Sanchis, M Jun 15 2025 FUZZY SETS AND SYSTEMS 510 Article number:109365	1.428 (JCR2022)
394	U. Kadak, D. Costarelli, L. Coroianu , Neural network operators of generalized fractional integrals equipped with a vector-valued function, Chaos, Solitons and Fractals, 177 (2023), 114272.	Fractional-order Izhikevich neuron Model: PI-rules numerical simulations and parameter identification Abdelaty, AM and Fouda, ME May 2025 CHAOS SOLITONS & FRACTALS 194	2.503 (JCR2023)

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395	U. Kadak, D. Costarelli, L. Coroianu , Neural network operators of generalized fractional integrals equipped with a vector-valued function, Chaos, Solitons and Fractals, 177 (2023), 114272.	Multivariate neural network operators activated by smooth ramp functions Baxhaku, F ; Berisha, A ; (...); Baxhaku, B Apr 15 2025 EXPERT SYSTEMS WITH APPLICATIONS 269 Article number:126119	2.716 (JCR2023)
396	L. Coroianu , D. Costarelli, U. Kadak, Quantitative Estimates for Neural Network Operators Implied by the asymptotic Behaviour of the Sigmoidal Activation Functions, Mediterranean Journal of Mathematics, 19 Issue 5, Article 211, 2022	Fuzzy neural network interpolation operators on fuzzy number valued functions endowed with weak types of continuity Font, JJ ; Macario, S and Sanchis, M Jun 15 2025 FUZZY SETS AND SYSTEMS 510 Article number:109365	1.428 (JCR2022)
397	L. Coroianu , D. Costarelli, U. Kadak, Quantitative Estimates for Neural Network Operators Implied by the asymptotic Behaviour of the Sigmoidal Activation Functions, Mediterranean Journal of Mathematics, 19 Issue 5, Article 211, 2022	Multivariate neural network operators activated by smooth ramp functions Baxhaku, F ; Berisha, A ; (...); Baxhaku, B Apr 15 2025 EXPERT SYSTEMS WITH APPLICATIONS 269 Article number:126119	2.716 (JCR2023)
398	L. Coroianu , D. Costarelli, U. Kadak, Quantitative Estimates for Neural Network Operators Implied by the asymptotic Behaviour of the Sigmoidal Activation Functions, Mediterranean Journal of Mathematics, 19 Issue 5, Article 211, 2022	Multivariate Neural Network Operators: Simultaneous Approximation and Voronovskaja-Type Theorem Cantarini, M and Costarelli, D Jul 30 2025 MATHEMATICAL METHODS IN THE APPLIED SCIENCES 48 (11) , pp.10669-10677	0.923 (JCR2023)
399	L. Coroianu , D. Costarelli, U. Kadak, Quantitative Estimates for Neural	Simultaneous approximation by neural	1.396

	Network Operators Implied by the asymptotic Behaviour of the Sigmoidal Activation Functions, Mediterranean Journal of Mathematics, 19 Issue 5, Article 211, 2022	network operators with applications to Voronovskaja formulas Cantarini, M and Costarelli, D Mar 2025 MATHEMATISCHE NACHRICHTEN 298 (3) , pp.871-885	(JCR2023)
400	L. Coroianu , D. Costarelli, S.G. Gal, G. Vinti, Approximation by max-product sampling Kantorovich operators with generalized kernels, Analysis and Applications, 19 Issue 2 (2021), 219-244.	Enhanced function approximation and applications to image scaling: A new family of exponential sampling neural network Kantorovich operators Agrawal, PN ; Baxhaku, B and Berisha, A Apr 2025 APPLIED SOFT COMPUTING 174 Article number:112923	2.071 (JCR2023)
401	L. Coroianu , D. Costarelli, S.G. Gal, G. Vinti, Approximation by max-product sampling Kantorovich operators with generalized kernels, Analysis and Applications, 19 Issue 2 (2021), 219-244.	Multivariate neural network operators activated by smooth ramp functions Baxhaku, F ; Berisha, A ; (...); Baxhaku, B Apr 15 2025 EXPERT SYSTEMS WITH APPLICATIONS 269 Article number:126119	2.716 (JCR2023)
402	L. Coroianu , D. Costarelli, S.G. Gal, G. Vinti, Approximation by max-product sampling Kantorovich operators with generalized kernels, Analysis and Applications, 19 Issue 2 (2021), 219-244.	Kantorovich-Type Sampling Operators and Approximation Gupta, V and Sharma, V Jul 2025 (Early Access) MATHEMATICAL METHODS IN THE APPLIED SCIENCES	0.923 (JCR2023)
403	L. Coroianu , D. Costarelli, S.G. Gal, G. Vinti, Approximation by max-product sampling Kantorovich operators with generalized kernels, Analysis and	Approximation by family of max-min sampling operators in function spaces	0.980 (JCR2023)

	Applications, 19 Issue 2 (2021), 219-244.	Vayeda, K and Bajpeyi, S Jul 14 2025 COMPUTATIONAL & APPLIED MATHEMATICS 44 (7) Article number:356	
Total citări			C =403

Cărți științifice de specialitate în domeniul disciplinelor postului publicate, ca autor sau co-autor, de la data ocupării funcției didactice actuale.

Nr.crt.	Date lucrare (Autori, titlu, , anul, nr. pagini)	Editura	ISBN
1	Carte cu 81 de autori și 40 de capitole (volum colectiv), cu titlul: Mathematical Analysis in Interdisciplinary Research, 2021, 1060 pagini. Titlu capitol: Approximation by Max-Product operators of Kantorovich Type, L. Coroianu, S. G. Gal, pagini 135-168. Acest capitol este de tip survey și trece în revistă câteva dintre rezultatele publicate de autori în reviste de specialitate.	Springer	9783030847203
2	L. Coroianu, Results in nonlinear approximation, 2024, 155 pagini. (postat pe platforma E-Learning a Universitatii din Oradea, link: https://e.uoradea.ro/course/view.php?id=85267)	Editura Universității din Oradea	9786061023417
TOTAL (prin însumare)		N₁ =2	

Lucrări publicate cu studenți/doctoranzi în reviste de specialitate sau prezentate în cadrul unor conferințe de specialitate internaționale sau naționale.

Nr.crt	Titlu	Autori	Date despre revistă/conferință
1	Approximations of fuzzy numbers by trapezoidal fuzzy numbers preserving the ambiguity and value	A. I. Ban, A. Brândaș , L. Coroianu, O. Nica , C. Negruțiu	Computers and Mathematics with Applications, 61 (2011) 1379-1401.
2	Feller's scheme in approximation by nonlinear possibilistic integral operators	L. Coroianu, S.G. Gal, B.D. Opris , S. Trifa	Numerical Functional Analysis and Optimization, 38 (3) (2017), 327-343.
3	The approximation capabilities of Durrmeyer-type neural network operators, Journal of Applied Mathematics and Computing	L. Coroianu, D. Costarelli, M. Natale , A. Pantiș	Journal of Applied Mathematics and Computing, 70 (5) (2024), 4581-4599.

Total (prin însumare)**N_{2.1}=2**

Coordonarea lucrărilor de finalizare a studiilor de licență/master.

Nr.crt	Titlul lucrării	Coordonatori	Specializare/ An universitar
1	Fürtös I. Mátyás, Analiza riscului de ruinare în jocul de poker folosind statistica matematică	Lucian Coroianu	Matematică, 2016-2017
2	Soran A.G. Ionuț Gheorghe, Aplicații ale aproximărilor trapezoidale a numerelor fuzzy	Adrian I. Ban, Lucian Coroianu	Informatică, 2016-2017
3	Budău V.V. Daniela, Intervale de încredere și aplicații	Lucian Coroianu	Matematică, 2017-2018
4	Pintea V.D. Larisa, Verificarea ipotezelor statistice cu aplicații	Lucian Coroianu	Matematică, 2017-2018
5	Chirilă I. Daniela Neli, Progresii aritmetice. Progresii geometrice	Lucian Coroianu	Matematică didactică, 2017-2018
6	Negruț C.G. Georgiana Cătălina, Polinoame cu coeficienți complecși și aplicațiile lor	Lucian Coroianu	Matematică didactică, 2017-2018
7	Dobran I.O. Adela Daiana, Estimatori deplasați, estimatori nedeplasați și aplicații ale acestora	Lucian Coroianu	Matematică 2018-2019
8	Ban H.F. Alexandra, Teste statistice pentru date perechi	Lucian Coroianu	Matematică, 2019-2020
9	David M. Iulia-Lorena, Metode de estimare ale parametrilor	Lucian Coroianu	Matematică, 2019-2020
10	Feher I. Tamas, Verificarea ipotezelor statistice	Lucian Coroianu	Matematica, 2019-2020
11	Budău V.V. Daniela, Elemente de combinatorică	Lucian Coroianu	Matematică didactică, 2019-2020
12	Moise A. Ana-Ioana, Statistica matematică. Intervale de încredere	Lucian Coroianu	Matematică, 2019-2020
13	Morar G. Anuța, Subgrupuri Sylow	Lucian Coroianu	Matematică, 2021-2022
14	Polgar A. Attila Patrik, Metode de regresie	Lucian Coroianu	Matematică, 2021-2022
15	Țicărat F. Mădălina Patricia, Metode de estimare a parametrilor distribuțiilor statistice	Lucian Coroianu	Matematică, 2021-2022
16	Țicărat F. Mădălina Patricia, Metode de optimizare a operatorilor și a ponderilor OWA	Lucian Coroianu	Matematică didactică, 2023-2024

17	Morar G. Anuța, Estimarea erorii în aproximarea prin operatori pozitivi și liniari și operatori max-produs	Lucian Coroianu	Matematică didactică, 2023-2024
Total (prin însumare)		N_{2.2}=17	

**ÎNDEPLINIT /
NEÎNDEPLINIT**

Tabelul 1 Lista factorilor SRI ale revistelor considerate în anii t-5, t-4, t-3, t-2, t-1, unde t este anul depunerii dosarului.

Numele revistei	Factor SRI				
	Anul t-5	Anul t-4	Anul t-3	Anul t-2	Anul t-1
Mathematical Programming	5.974	5.409	4.612	3.862	4.567
Journal of Fourier Analysis and Applications	1.808	1.423	1.386	1.316	1.626
Journal of Mathematical Analysis and Applications	1.136	1.118	1.082	1.088	1.472
Journal of Optimization Theory and Applications	1.309	1.435	1.351	1.202	1.636
Journal of Global Optimization	1.33	1.251	1.211	1.117	1.421
Fuzzy Sets and Systems	1.406	1.291	1.291	1.428	1.367
Linear Algebra and its Applications	0.983	1.039	1.40	1.075	1.483
Journal of Approximation Theory	1.107	1.001	1.129	1.012	1.347
Journal of Computational and Applied Mathematics	1.001	0.982	0.994	0.979	1.266
Mathematische Nachrichten	1.128	1.095	1.153	1.101	1.396
Comptes Rendus Mathematique	1.007	0.952	0.905	1.113	1.513
Results in Mathematics	0.687	0.742	1.034	0.923	1.193
Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales. Serie A. Matematicas	0.757	0.856	0.935	1.015	1.299
Analysis and Applications	1.289	1.641	1.812	1.598	2.934
Journal of Applied Mathematics and Computing	-	0.541	0.602	0.717	1.292
Computers and Mathematics with Applications	1.334	1.312	1.219	1.232	1.557
European Journal of Operational Research	1.974	1.763	1.854	2.161	2.269
Applied Mathematics and Computation	1.048	1.165	1.281	1.255	1.600
IEEE Transactions on Fuzzy Systems	4.962	4.661	4.428	4.645	5.080
Information Sciences	2.575	2.277	2.092	2.166	2.615
Computers and Industrial Engineering	1.464	1.385	1.514	1.722	2.257
Neural Networks	3.705	3.353	2.858	3.126	3.376
Information Fusion	4.853	4.874	5.855	7.235	8.089
IEEE Transactions on Cybernetics	6.542	5.892	5.701	4.907	6.473
IEEE Transactions on Industrial Informatics	3.674	3.155	3.502	3.950	5.113
IEEE Transactions on Systems Man Cybernetics-Systems	3.427	4.763	3.686	3.548	4.960
Archives of Computational Methods in Engineering	6.489	4.813	4.024	3.921	8.423

Knowledge-Based Systems	2.261	2.150	1.975	2.274	2.481
Artificial Intelligence Review	2.531	2.208	2.180	3.036	3.814
Numerical Functional Analysis and Optimization	0.593	0.554	0.676	0.565	0.909
Filomat	0.358	0.415	0.459	0.417	0.540
Bulletin of the Korean Mathematical Society	0.321	0.391	0.394	0.373	0.690
International Journal of Approximate Reasoning	1.14	1.105	1.054	1.137	1.212
Demonstratio Mathematica	-	-	0.561	0.564	0.881
Revista de la Union Matematica Argentina	0.411	0.429	0.651	0.469	0.724
Fixed Point Theory	0.406	0.766	0.656	0.509	0.715
Periodica Mathematica Hungarica	0.616	0.670	0.665	0.795	1.116
Soft Computing	0.972	0.859	0.776	0.894	0.905
Journal of Integral Equations and Applications	0.719	0.719	0.771	0.740	0.692
Mathematical Methods in the Applied Sciences	0.722	0.823	0.805	0.786	0.923
Communications on Pure and Applied Analysis	1.014	1.122	1.002	0.967	1.246
IEEE Access	1.529	1.202	1.248	1.300	1.424
Mathematics	-	0.507	0.634	0.597	0.860
Mediterranean Journal of Mathematics	0.666	0.762	0.843	0.754	1.128
Chaos Solitons & Fractals	1.34	1.534	2.135	1.988	2.503
Information	-	-	-	-	0.920
Journal of Renewable and Sustainable Energy	0.398	0.462	0.511	0.560	0.558
Expert Systems with Applications	2.061	2.333	2.523	2.421	2.716
International Journal of Fuzzy Systems	0.995	0.965	0.827	0.950	1.079
International Journal of General Systems	0.848	0.788	0.768	0.839	1.078
Applied Intelligence	0.962	1.055	1.001	1.104	1.134
Journal of Spatial Science	0.577	0.604	0.548	0.417	0.479
Mathematical Problems in Engineering	0.511	0.508	0.406	-	-
Applicable Analysis	0.762	0.765	0.725	0.649	0.835
Applied Soft Computing	1.778	1.663	1.670	1.995	2.071
Technological and Economic Development of Economy	0.577	0.668	0.755	0.647	1.098
Renewable Energy	1.494	1.633	1.591	0.461	1.789
Symmetry-Basel	0.55	0.579	0.687	0.660	0.748
Neural Computing & Applications	1.366	1.418	1.091	1.273	1.362
Analysis and Mathematical Physics	0.89	0.713	0.899	1.027	1.421
Mathematics and Computers in Simulation	1.007	0.998	0.999	1.075	1.356
International Journal of Systems Science	1.018	0.934	0.884	1.446	2.128
Mathematical Biosciences and Engineering	0.596	0.579	0.633	0.596	-
Rendiconti Lincei-Matematica e Applicazioni	0.983	1.039	1.040	1.075	1.483
Annales Academiae Scientiarum Fennicae-Mathematica	1.313	1.099	1.031	1.233	1.873
Banach Journal of Mathematical Analysis	0.885	0.805	0.899	0.946	1.144
Complex & Intelligent Systems	-	1.489	1.453	1.388	1.399
Socio-Economic Planning Sciences	1.354	1.137	1.153	1.391	1.865
Sustainable Cities and Society	1.788	2.232	2.880	3.367	4.158
Aerospace	-	1.005	1.017	0.996	1.213
International Journal of Disaster Risk Reduction	1.26	1.576	1.489	1.784	1.670
Environmental Modelling & Software	2.19	2.361	2.154	2.237	2.189
Environmental Science and Pollution Research	0.975	0.963	0.935	1.042	1.173
Clean Technologies and Environmental Policy	0.728	0.744	0.772	0.894	1.060

Sensors	1.256	1.254	1.309	1.314	1.408
Journal of Energy Storage	-	1.239	1.388	1.555	1.672
Sustainable Energy Technologies and Assessments	-	1.001	1.208	1.345	1.523
Neurocomputing	1.602	1.491	1.475	1.815	2.019
Computational & Applied Mathematics	0.508	0.595	0.721	0.690	0.980
International Journal of Intelligent Systems	2.047	1.590	1.558	1.615	1.724
Axioms	-	-	0.602	0.490	0.583
R Journal	3.769	5.013	6.456	5.836	3.616
Open Mathematics	0.44	0.445	0.471	0.508	0.602
International Journal of Machine Learning and Cybernetics	1.085	0.904	0.871	1.088	1.082
Science of the Total Environment	2.099	2.085	2.233	2.295	2.410
Iranian Journal of Fuzzy Systems	0.405	0.498	0.507	0.440	0.708
Carpathian Journal of Mathematics	0.358	0.664	0.501	0.529	0.784
Energies	0.544	0.598	0.576	0.580	0.581
Statistical Papers	0.796	0.845	0.775	0.694	0.858
Complex Analysis and Operator Theory	0.611	0.571	0.592	0.686	0.992
Journal of Inequalities and Applications	0.479	0.634	0.619	0.613	0.812
Czechoslovak Mathematical Journal	0.458	0.364	0.409	0.401	0.567

¹ lista revistelor ISI sunt cele aflate pe listele ISI Thomson disponibile în momentul depunerii dosarului

² factorul SRI (Scorul Relativ de Influență), este calculat conform cu standardele minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare propuse de comisia de Matematica din cadrul CNATDCU

Confirm prin prezenta că datele mai sus menționate sunt reale și se referă la propria mea activitate profesională și științifică.

Data: 22.07.2025

Candidat LUCIAN COROIANU