

Prof.univ.dr. Emil C. Popa

1° Teza de doctorat

T1. *Contributii la calculul operatorial finit*, Universitatea „Babes-Bolyai” din Cluj - Napoca, p.103., 1998.

2° Carti publicate

Ca1. Emil C. Popa, Octavian Halmaghi, *Algebra liniara, Note de curs si probleme*, Editura Universitatii „Lucian Blaga” din Sibiu, ISBN 973-651-102-2, p.130, 2000.

Ca2. Emil C. Popa, *Introducere in Algebra liniara si aplicatiile ei*, Editura Alma Mater, Sibiu, ISBN(10)-973-632-288-2, ISBN(13)-978-973-632-288-4, p150, 2006.

Ca3. Emil C. Popa, Petrica Dicu, Alina Totoi, *Introducere in teoria matricilor si aplicatii*, Editura Universitatii “ Lucian Blaga” din Sibiu, ISBN 978-606-12-0593-6, p.236, 2013.

Ca4. Emil C. Popa , Petrica Dicu, Radu Diaconu, *Culegere de probleme de analiza matematica*, Editura Techno Media , Sibiu, 2 vol..ISBN(set) 978-

606-616-268-5, vol.I, Calcul diferencial, ISBN 978-606-616-269-2, p223, vol.II, Calcul integral, ISBN 978-606-616-270-8, p352, **2017**.

Ca5 .Emil C.Popa, Petrica_Dicu, Radu Diaconu, *Culegere de probleme de analiza matematica*, Editura Tecno Media, Sibiu, 2 vol., ISBN(set) 978-606-616-316-3, **Editia a 2-a** revazuta si adaugita, vol.I, Calcul diferencial, ISBN 978-606-616-317-0, p.228; vol.II, Calcul integral, ISBN 978-606-616-318-7, p.555, **2018**.

Cb1. Emil C. Popa, *Elemente de calcul umbral*, Editura Universitatii "Lucian Blaga" din Sibiu, ISBN 973-9410-48-0, p.105, 1999.

Cb2. Emil C. Popa, *Calcul umbral si operatori de aproximare*, Editura Alma Mater, Sibiu, ISBN(10)-973-632-287-4, ISBN(13)-978-973-632-287-7, p.150, 2006.

Cb3. Emil C. Popa, *Clase de operatori liniari studiati cu ajutorul calculului operatorial finit*, Editura Alma Mater, Sibiu, ISBN 978-973-632-540-3, p.141, 2009.

3° *Articole/studii publicate:*

a) in reviste de specialitate de circulatie internationala recunoscute/cotate ISI sau indexate in baze de date internationale specifice domeniului (Zentralblatt MATH. – Germania, Mathematical Reviews - SUA)

Ris1. Emil C. Popa, *A note on Jordan's inequality*, General Math., Vol.28, No.2(2020), 97-102 .

Ris2. Emil C. Popa, (with N.A. Secelean), *Estimates for the constants of Landau and Lebesgue via some inequalities for the Wallis ratio*, Journal of Computational and Applied Mathematics, revista **ISI Thomson**, vol 269, pages 68-74, octomber 2014 (**Zbl 06317622**).

Ris3. Emil C. Popa, (with N.A. Secelean), *On some inequality for the Landau constants*, Taiwanese J. Math. revista **ISI Thomson** , vol 15, No.4, pp.1457-1462, August 2011. (**Zbl 1234. 26066**)

Ris4. Emil C. Popa (with S. Barza and L-E Persson), *Some multiplicative inequalities for inner products and of Carlson type*, Journal of Inequalities and Applications, revista ISI Thomson, Volume 2008 , Article ID 890137, 7 pages,(**Zbl 1148.26022**),2008.

Ris5. Emil C. Popa, *An inequality of Ostrowski type via a mean value theorem*, Gen. Math.,Vol.15, Nr.1, 93-100, 2007(**Zbl 1164. 26349**).

Ris6. Emil C. Popa, *On some new generalizations of Carlson's inequalities*, Buletinul St.si Tehn. U.P. Timisoara, Transactions on Mathematics and Physics, Tom.52(66), 1, 44-49, 2007, (**Zbl 1164. 26350**).

Ris7. Emil C. Popa, *About a Carlson's integral inequality*, Journal of Mathematical Analysis and Approximation Theory ,Serials Publications, New Delhi, India, ISSN: 0973-5119, Vol 2, No.1, 13-20, June 2007.

Ris8. Emil C. Popa, *Approximation properties for a certain class of positive linear operators*, Advances in Applied Mathematical Analysis,Vol.1, No.2, 2006.

Ris9. Emil C. Popa (with S. Barza), *Weighted multiplicative integral inequalities* (partially supported by a **grant of Karlstad University** for the author E. C. Popa), J.Ineq. Pure and Appl. Math.,Vol.7, No.5, (**MR2268624(2007g:26022)**, **Zbl 1232. 26022**),Art.169, 2006.

Ris10. Emil C. Popa, *A certain class of approximation operators*, Mathematical Inequalities & Applications, Zagreb, Croatia, Vol 8, nr. 4, revista ISI Thomson, (**MR2174896 (2006f:41033)**, **Zbl 05004740**), 693 – 703, October 2005.

Ris11. Emil C. Popa, *Continuity properties relative to the intermediate point in a mean value theorems*, Gen. Math., Vol. 12, Nr. 3, (**Zbl pre 05167688**), 53 – 59, 2004.

Ris12. Emil C. Popa, *Sheffer polynomials and approximation operators*, Tamkang Journal of Mathematics, Tamsui, Taiwan, Vol. 34, No.2, (**MR1976330 (2004b:41033)**, **Zbl 1082.41019**), 117 – 127, June 2003.

Ris13. Emil C. Popa, *On the rate of convergence of certain approximation operators*, Gen. Math., Vol. 10, nr. 1-2, (MR2074721, Zbl 1073.41509), 85-89, 2002.

Ris14. Emil C. Popa, *On some approximation operators*, Annals of the West University of Timisoara, Ser. Mat – Inf , Vol. 11, Fasc. 2, (MR2106003, Zbl 1073.41507), 97-105, 2002.

Ris15. Emil C. Popa, *Note on a class of delta operators*, Gen. Math., Vol. 9, Nr. 1-2, (MR2161909), 49-52, 2001.

Ris16. Emil C. Popa, *Some properties of two linear operators*, Univ. Beograd, Publ. Elektrotehn. Fak., Yugoslavia, Ser, Mat. 12, (MR1920356 (2003d:05020), Zbl 1051.05010), 41-47, 2001.

Ris17. Emil C. Popa, *On Schur's expansion of $\sin \pi x$* , Gen. Math., Vol. 8, Nr. 3-4, (MR1933899), 45 – 47, 2000.

Ris18. Emil C. Popa, *Some properties of Q – umbral operators*, Buletin Stiintific al Universitatii “Politehnica” Timisoara, Tom. 45 (59), 2, Mat.- Fiz, (MR1913432, Zbl 1045.05009), 52-54, 2000.

Ris 19. Emil C. Popa, *Note on a delta operator*, Gen. Math., Vol. 8, Nr. 1-2, (MR1933074 (2003h:05025)), 79-82, 2000.

Ris20. Emil C. Popa, *Note on some basic polynomials*, Gen. Math., Vol. 8, Nr. 3-4, (MR1933902 (2003g:05019)), 67 - 71, 2000.

Ris21. Emil C. Popa, *On the sequences of binomial type*, Gen. Math., Vol. 7, Nr. 1-4, (MR1897617, Zbl 0993. 05016), 107 – 110, 1999.

Ris22. Emil C. Popa, *On the Sheffer polynomials*, Buletinul Stiintific al Universitatii “Politehnica” Timisoara, Ser. Mat. – Fiz, Tom. 43 (57). (MR1667138 (99k:33032), Zbl 0974.44006), 21-23, 1998.

Ris23. Emil C. Popa (with S. Barza), *Inequalities related with Carlson's inequality*, Tamkang Journal of Mathematics, Tamsui, Taiwan, Vol.29, Nr.1, (MR1625706 (99d:26021), Zbl 0923.26012), 59-64, 1998.

Ris24. Emil C. Popa, *On a subgroup of binomial polynomials*, Gen. Math., 6,(Zbl 1052.05502) 81-82, 1998, (The third Romanian-German Seminar on Approximation Theory, Sibiu, June 1-3, 57-58, 1998).

Ris25. Emil C. Popa, *Note on Sheffer polynomials*, Octogon, Mathematical Magazine, Vol.5, Nr. 2, (MR1619516), 56 – 57, 1997.

Ris26. Emil C. Popa, *Linear operators of Abel type*, Bull. Math. de la Soc. des Sci. Math. de Roum.; Revista ISI Thomson, Vol. 40 (88), Nr.1, (Zbl 0907.47028), 27 – 31, 1997.

Ris27. Emil C. Popa, *A certain class of linear operators*, Rev. Anal. Numer.Theor.Approx., Tom. 26, Nr. 1-2, (MR1703936 (2000c:41029), Zbl 1023.41019), 185-190, 1997, (International Conference on Approximation and Optimization, Cluj-Napoca, July 29 – August 1, 1996).

Ris28. Emil C. Popa, *On a group of polynomial sequences*, Gen. Math., Nr. 1-2, (Zbl 0889.05012), 13-18, 1995.

Ris29. Emil C. Popa, *An injective morphism of linear spaces*, Gen. Math., Nr. 3, (Zbl 0876.47025), 169 - 172, 1994.

Ris30. Emil C. Popa, *On a Schur's conjecture*, Gen. Math., Nr.1, 2, (Zbl 0974.41508), 71-77, 1994.

Ris31. Emil Popa, *Sur quelques critères d'oscillation pour les équations différentielles linéaires du second ordre*, Revue Roum. de Math. Pures et Appl., Nr. 1, Vol. 26, (MR0616029 (82h:34045), Zbl 0466.34013), 135-138, 1981.

b) In alte reviste de specialitate de circulatie nationala

Rno1. Emil C. Popa, *Asupra demonstratiei unei teoreme de medie*, Gaz. Mat. Bucuresti, No.6, 2011, pp.283-285.

Rno2. Emil C. Popa, *Asupra unei inegalitati integrale*, Mathematical Education, 2009.

Rno3. Emil C. Popa, *Q – umbral operators*, Acta Universitatis Cibiniensis, Vol. XI (2), 62 – 63, 1998.

Rno4. Emil C. Popa, *Contributions to the umbral calculus*, Ed. Univ. “L.Bлага” din Sibiu, p.27, 1998.

Rno5. Emil C. Popa, *On a normed linear space*, Acta Universitatis Cibiniensis XI(1) 75 – 77, 1997.

Rno6. **Emil C. Popa**, *Asupra unei proprietati a punctului intermediar "c" din unele teoreme de medie*, Gaz.Mat.Bucur., 138-145,1994.

Rno7. **Emil C. Popa**, *Consideratii privind schimbarea de variabila pentru integrala nedefinita si integrala Riemann*, Astra Mat., Vol.1, Nr. 1, (**Zbl 0776. 26010**), 16 – 22, 1990.

Rno8. **Emil C. Popa**, *Matrici si siruri recurente*, Astra Mat., Vol1, No.2, 26-27,1990.

Rno9. **Emil C. Popa**, *O proprietate a punctului intermediar in unele teoreme de medie*, Astra Mat., Vol. 1, Nr. 4, (**Zbl 0753.26004**), 3 – 7, 1990.

Rno10. **Emil C. Popa**, *Asupra unei teoreme de medie*, Gaz. Mat.Bucur. Nr.5, (**Zbl 0716. 26003**), 113 – 114, 1989.

Rno11. **Emil C.Popa**, *About a class of nonlinear differential equations*, Gaz. Mat. Perfect. Metod. Metodol., Mat. Inf, 3, (**Zbl 0639. 34010**), 64-66, 1982.

Rno12. **Emil C. Popa**, *Asupra unei inegalitati geometrice*, Gaz. Mat. Bucur., Nr.7, (**MR 0693346 (84g:51032)**), 256-257, 1982.

Rno13. **Emil C. Popa**, *O generalizare a unei probleme date la faza jud. a Concursului de Matematica din 25.02.1979*, Gaz.Mat. Bucur. Nr.7, 272,1979.

Rno14. **Emil Popa**, *Asupra unei ecuatii diofantice*, Gaz. Mat. Bucur., Nr.1, (**Zbl 0401.10027**). 5-7, 1979.

Rno15. **Emil Popa**, *Asupra problemei 16.113*, Gaz.Mat.Bucur.,Nr.9,346-349,1977.

4° Articole/studii publicate in volumele unor manifestari stiintifice internationale recunoscute (cu ISSN sau ISBN) din tara sau strainatate

Vi1.Emil C. Popa, *Note on a conditional inequality*, Proceedings on the 12-th ROGER Seminar on Approximation Theory and its Applications, Sibiu , General Math.,Special issue, may 2016.

Vi2. Emil C. Popa, *Some considerations on the Landau constants*, Proceedings on the 11- th ROGER Seminar on Approximation Theory and its Applications, Sibiu , General Math., Special issue, may 2014.

Vi3. Emil C. Popa, *An extension of a Flett's mean value theorem*, Proceedings of The 10th Romanian- German Seminar on Approximation Theory and its Applications, Gen.Math.,Special issue, vol.20-no.5 ,p.93- 97, Sibiu, 24-27 May, 2012.

Vi4. Emil C. Popa, *A note on the constants of Landau*, Proceedings of the „Romanian-German Symposium on Mathematics and its Applications”, Sibiu, mai 2009 , Gen.Math., Vol.18, No.1, 119-123, 2010.(**Zbl 1212. 26068).**

Vi5. Emil C. Popa, *On some inequality for the constants of Landau and Lebesgue*, Proceedings of the 12th Symposium of Matematics and its Applications, „Politehnica” University of Timisoara, November, 5-7, 2009, Ed. Politehnica,p.159-161, 2010,(**Zbl 1212. 33004).**

Vi6. Emil C.Popa, *On an expansion theorem in the finite operator calculus of G-C. Rota*, Proceedings of the 8th Romanian-German Seminar on Approximation Theory and its Applications, Sibiu, 28 May-1June, 2008, Gen.Math., Vol. 16, No.4, 149-154, 2008. (**Zbl 1199. 05013).**

Vi7. Emil C. Popa, *On a problem of A.Shafie*, Proceedings of the fifth International Symposium „Mathematical Inequalities”,Sibiu, 25-27 September, 2008. (Zbl 1212. 26056**).**

Vi8. Emil C. Popa, *On a sequence of approximation operators constructed by means of generating functions for binomial polynomials*, Proceedings of the 11- th WSEAS International Conference on Computers, Special session 3 (Topics: Approximation and Interpolation), Crete Island, Greece, ISSN: 1790-5117, ISBN: 978-960-8457-92-8, 333-337, July 23-28, 2007, Nr. 2138 in Thomson Reuters, Conference Proceedings citation index (List of conferences 2004-2008, 15 september 2008**).**

Vi9. Emil C. Popa, *Certain inequalities concerning some complex and positive functionals*, Proceedings of International Symposium on Complex Analysis, Sibiu, 26-29 Aug., 2007, (Organizers: „L. Blaga” University of Sibiu, Romania; Kinki University, Japan; TC Istanbul Kültür University, Turkey), Gen. Math.,Vol.15, No.2-3, 108-117, 2007,(**Zbl 1164. 26331).**

Vi10. Emil C. Popa, *On the rate of convergence of a linear approximation process*, Proceedings of the tenth International symposium of mathematics and its applications, Romanian Academy and “Politehnica” University of Timisoara, ISSN 1224-6069, 498-503, 6-9 nov 2003.

Vi11. Emil C. Popa, *Remarks on some approximation operators*, Proceedings of the sixth annual conference of the Romanian Society of Mathematical Science , Sibiu, (MR2017196), ISBN 973-651-634-2, 177-183, 23-25 mai, 2002.

Vi12. Emil C. Popa, *Note on some approximation operators*, Proceedings of the International Symposium on Numerical Analysis and Approximation Theory, Cluj – Napoca, (MR2006949 (2004h:41020), Zbl 1057. 41016), ISBN 973-610-166-5, 411-417, mai 9-11, 2002.

Vi13. Emil C. Popa, *On a class of approximation operators*, Proceedings of the ninth International Symposium of Mathematics and its Applications, Romanian Academy and “Politehnica” Universty of Timisoara, ISSN 1224-6069, 127-131, nov. 1-4, 2001.

Vi14. Emil C. Popa, *On a class of delta operators*, Proceedings of the annual meeting of the Romanian Society of Mathematical Sciences, Cluj-Napoca, ISBN 973-98789-0-3, 195-199, mai 27-31, 1998.

Vi15. Emil C. Popa, *Generalization of the Pincherle derivative*, Proceedings of the Seventh International Symposium of Mathematics and its Applications, Timisoara, Research Center of the Romanian Academy and “Politehnica” University of Timisoara, , 195-198, Nov. 6-9 1997.

5° Proiecte de cercetare/dezvoltare pe baza de contract

Pi1. Karlstad University, Sweden, Department of Mathematics, ,april-may, 2010, *Contract ERASMUS cu caracter didactic si de cercetare.*

- 27.04.2010 “*Estimates and asymptotics for the Landau constants*”, conferinta sustinuta in cadrul Departamentului de matematica, Karlstad University, Sweden.

Pi2. Karlstad University, Sweden, Department of mathematics, 15.10 – 15.11 2005: Grant for visiting professors UFO 2004/303 of Karlstad

University, constand in elaborarea unor lucrari stiintifice in domeniul inegalitatilor integrale si a unor domenii inrudite, precum si sustinerea conferintei “*Finite operator calculus and approximation operators*” in 1.11.2005 in cadrul Seminarului stiintific al Departamentului de matematica al Universitatii .

Pi3. Romanian – Japanese Mathematical Research Center – No. 68/31 august 2006 – Contract de cercetare intre Departamentul de Matematica al Universitatii “Lucian Blaga” din Sibiu si Departamentul de Matematica al Universitatii “Kinki” din Osaka, 2006 – 2010, **Emil C. Popa** – membru

Pi4Romanian – Malaysian Mathematical Research Center – Basic Contract – Nr. 1003/19.05.2008 – Contract de cercetare intre Departamentul de Matematica al Universitatii “Lucian Blaga” din Sibiu si Facultatea de Stiinte si Tehnologie din cadrul Universitatii Kebangsaan – Malaezia, 2008 – 2012, **Emil C. Popa** – membru

Pn1. Proiect de cercetare national, Nr. 1905/04.06.2008 – Contract de cercetare intre Facultatea de Stiinte a Universitatii “Lucian Blaga” din Sibiu si SC CONSECA ROMANIA – Sisteme dinamice aplicate in modelarea si conducerea optimala a activitatii companiilor, **Emil C. Popa** – membru, 2008 – 2010

Pn2. Contract de cercetare nr. 15/10.05.2004 - 2007
Emil C. Popa - Director contract
Beneficiar SC Compa IT SRL Sibiu.
Tema: “*Calcul umbral, teoria operatorilor de aproximare*”

Pn3. Contract nr.27, Tema 10, Cod CNSU240
Emil C. Popa - Membru
Predat 1998.
Beneficiar M.E.I.
Tema: “*Restul in teoria operatorilor de aproximare*”

09.2020

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