

Listă de lucrări

- 1 Operators invariant relative to a completely nonunitary contraction, *Math. Z.* 299 (2021), 1631–1649.
- 2 Algebras of block Toeplitz matrices with commuting entries, cu Muhammad Ahsan Khan, *Linear Multilinear Algebra* 69 (2021), 2702–2716.
- 3 The invariant subspaces of $S \oplus S^*$, *Concrete Operators* 7 (2020), 116–123.
- 4 Commutant lifting and Nevanlinna-Pick interpolation in several variables, cu Deepak K.D., D.K. Pradhan, J. Sarkar, *Integral Equations and Operator Theory* 92 (2020), Paper no.27, 15p.
- 5 Algebras of block Toeplitz matrices with commuting entries, cu Muhammad Ahsan Khan, *Linear and Multilinear Algebra*, acceptat.
- 6 Matrix valued truncated Toeplitz operators: basic properties, cu Rewayat Khan, *Complex Anal. Oper. Theory* 12 (2018), no. 4, 997–1014.
- 7 Truncated Toeplitz operators and complex symmetries, cu Hari Bercovici, *Proc. Amer. Math. Soc.* 146 (2018), no. 1, 261–266.
- 8 A Szegő type theorem for truncated Toeplitz operators, cu Elizabeth Strouse și Mohamed Zarrabi, *Journal of Approximation Theory* 220 (2017), 12–30.
- 9 Factorizations of kernels and reproducing kernel Hilbert spaces, cu R. Kumari, J. Sarkar și S. Sarkar, *Integral Equations and Operator Theory* 87 (2017), 225–244.
- 10 Classes of contractions and Harnack domination, cu Catalin Badea și Laurian Suciu, *Revista Matematica Iberoamericana* 33 (2017), 469–488.
- 11 An extremal problem for characteristic functions, cu I. Chalendar, S.R. Garcia și W.T. Ross, *Trans. Amer. Math. Soc.* 368 (2016), 4115–4135.
- 12 A short introduction to de Branges–Rovnyak spaces, în *Invariant Subspaces of the Shift Operator*, Contemporary Mathematics, AMS 2015, 21–38.
- 13 Note on a Julia operator related to model spaces, în *Invariant Subspaces of the Shift Operator*, Contemporary Mathematics, AMS 2015, 247–254.
- 14 Contractively included subspaces of Pick spaces, cu Chafiq Benhida, *Complex Anal. Oper. Theory* 9 (2015), 245–264.
- 15 Commutation relations for truncated Toeplitz operators, cu I. Chalendar, *Operators and Matrices*, 8 (2014), 877–888.
- 16 Nonextreme de Branges–Rovnyak spaces as models for contractions, cu Javad Mashreghi, *Integral Equations Operator Theory* 80 (2014), 137–152.

- 17 Schur coupling and related equivalence relations for operators on a Hilbert space, *Linear Algebra Appl.* **452** (2014), 106–119.
- 18 The numerical range of a contraction with finite defect numbers, cu H. Bercovici, *J. Math. Anal. Appl.* **417** (2014), 42–56.
- 19 Two remarks about nilpotent operators of order two, cu S.R. Garcia și B. Lutz, *Proc. Amer. Math. Soc.* **142** (2014), 1749–1756.
- 20 Embeddings of Müntz spaces: the Hilbertian case, cu S. Waleed Noor, *Proc. Amer. Math. Soc.* **141** (2013), 2009–2023.
- 21 A note on composition operators in a half-plane, cu H. Bercovici, *Arch. Math. (Basel)* **99** (2012), 567–576.
- 22 Unitary equivalence to truncated Toeplitz operators, cu E. Strouse și M. Zarrabi, *Indiana Univ. Math. J.* **61** (2012), 525–538.
- 23 Embedding theorems for Müntz spaces, cu I. Chalendar și E. Fricain, *Ann. Inst. Fourier* **61** (2011), 2291–2311.
- 24 Factorization of analytic self-maps of the half-plane, cu H. Bercovici, *Ann. Acad. Sci. Fenn.* **37** (2012), 1–12.
- 25 Numerical ranges of $C_0(N)$ contractions, cu Ch. Benhida și P. Gorkin, *Integral Equations Operator Theory* **70** (2011), 265–279.
- 26 A family of reductions for Schubert intersection problems, cu H. Bercovici și W.S. Li, *J. Algebraic Combin.* **33** (2011), 609–649.
- 27 Extensions of positive definite functions on amenable groups, cu M. Bakonyi, *Canad. Math. Bull.* **54** (2011), 3–11.
- 28 Bounded symbols and reproducing kernel thesis for truncated Toeplitz operators, cu A. Baranov, I. Chalendar, E. Fricain, J. Mashregi, *J. Funct. Anal.* **259** (2010), 2673–2701.
- 29 Intersections of Schubert varieties and eigenvalue inequalities in an arbitrary finite factor, cu H. Bercovici, B. Collins, K. Dykema și W.S. Li, *J. Funct. Anal.* **258** (2010), 1579–1627.
- 30 On an extremal problem of Garcia și Ross, cu I. Chalendar și E. Fricain, *Operators și Matrices* **3** (2009), 541–546.
- 31 The Horn conjecture for sums of compact selfadjoint operators, cu H. Bercovici și W.S. Li, *Amer. J. Math.* **131** (2009), 1543–1567.
- 32 On certain Riesz families in vector-valued de Branges–Rovnyak spaces, cu N. Chevrot și E. Fricain, *J. Math. Anal. Appl.* **355** (2009), 110–125.
- 33 Finitely strictly singular operators between James spaces, cu I. Chalendar, E. Fricain, A. Popov și V. Troitsky, *J. Funct. Anal.* **256** (2009), 1258–1268.

- 34 A note on the stability of linear combinations of algebraic operators, cu I. Chalendar și E. Fricain, *Extracta Math.* **23** (2008), 43–48.
- 35 The central completion of a positive block operator matrix, cu M. Bakonyi, in *Operator theory, structured matrices și dilations*, 69–83, Theta, București, 2007.
- 36 The characteristic function of a complex symmetric contraction, cu N. Chevrot și E. Fricain, *Proc. Amer. Math. Soc.* **135** (2007), 2877–2886.
- 37 Extensions of positive definite functions on free groups, cu M. Bakonyi, *J. Functional Analysis*, **246** (2007), 31–49.
- 38 Some automorphism invariance properties for multicontractions, cu Ch. Benhida, *Indiana Univ. Math. J.* **56** (2007), 481–500.
- 39 Weak contractions and trace class perturbations, cu H. Bercovici, *Oper. Matrices* **1** (2007), 71–85.
- 40 Characteristic functions for multicontractions and automorphisms of the unit ball, cu Ch. Benhida, *Integral Equations Operator Theory* **52** (2007), 153–166.
- 41 The characteristic function of a complex symmetric contraction, cu N. Chevrot și E. Fricain, *Proc. A.M.S.* **135** (2007), 2877–2886.
- 42 Trace-class perturbations and functional calculus, cu H. Bercovici, în *Operator Theory, Operator Algebras și Applications*, Deguang Han, Palle E.T. Jorgensen și D.R. Larson, Editors, Contemporary Mathematics **414**, American Mathematical Society, 2006, 399–402.
- 43 Inner-outer factorization for operator-valued functions on ordered groups, cu M. Bakonyi, *Studia Mathematica* **169** (2005), 295–303.
- 44 A remark on positive definite functions on free groups, cu M. Bakonyi, *Demonstratio Mathematica* **39** (2006), 317–320.
- 45 The relaxed intertwining lifting in the coupling approach, cu W.S. Li, *Integral Equations Operator Theory* **54** (2005), 97–111.
- 46 Power boundedness and similarity to contractions for some perturbations of isometries, cu G. Cassier, *Journal of Mathematical Analysis and Applications* **293** (2004), 160–180.
- 47 Approximation theory and matrix completions, cu D. Hadwin și D.R. Larson, *Linear Algebra Appl.* **377** (2004), 165–179.
- 48 Functional models and asymptotically orthonormal sequences, cu I. Chalendar și E. Fricain *Ann. Institut Fourier*, **53** (2003), 1527–1549.

- 49 The intertwining lifting theorem for ordered groups, cu M. Bakonyi, *J. Functional Analysis* **199** (2003), 411–426.
- 50 A von Neumann type inequality for certain domains in $\mathbf{C}^n$, cu C.-G. Ambrozie, *Proceedings of the AMS* **131** (2003), 859–869.
- 51 The weighted intertwining lifting theorem in the coupling approach, *Integral Equations and Operator Theory* **42** (2002), 493–497.
- 52 On an intertwining lifting theorem for certain reproducing kernel Hilbert spaces, cu C.-G. Ambrozie, *Integral Equations and Operator Theory* **42** (2002), 373–384.
- 53 On an extension problem for polynomials, cu M. Bakonyi, *Bull. London Math. Soc.* **33** (2001), 599–605.
- 54 A note on finite rank perturbations of contractions and dual algebras, cu Ch. Benhida, *Bull. Math. Soc. Sc. Math. Roum.*, **44(92)** (2001), 193–198.
- 55 Finite rank perturbations of contractions, cu Ch. Benhida, *Integral Equations Operator Theory* **36** (2000), 253–268.
- 56 A commutant lifting theorem for the polydisc, cu J. A. Ball, W. S. Li și T. T. Trent, *Indiana Univ. Math. Journal* **48** (1999), 653–675.
- 57 On the three chains theorem in intertwining lifting, *Bul. Acad. Sti. Rep. Moldova* **3(28)** (1998), 133–136.
- 58 Regular dilations and models for multicontractions, *Indiana Univ. Math. Journal* **47** (1998), no.2, 671–684.
- 59 The central Ando dilation and related orthogonality properties, cu W. S. Li, *J. Funct. Analysis* **154** (1998), 1–16.
- 60 On isometric intertwining liftings, cu W. S. Li, *Operator Theory: Advances and Applications* **104** (1998), 155–167.
- 61 On a conjecture of Cotlar and Sadosky on multidimensional Hankel operators, cu M. Bakonyi, *Comptes Rendus de l'Academie des Sciences* **325**, I (1997), 1071–1075.
- 62 Functional models and finite dimensional perturbations of the shift, cu Ch. Benhida, *Integral equations and Operator Theory* **29**, 2 (1997), 187–196.
- 63 A short proof of N.Young's theorem on the orbits of the action of the symplectic group, *Proc. of the Edinburgh Mathematical Society* **40** (1997), 309–315.
- 64 On some perturbations of completely non-unitary contractions of multiplicity two, *Acta Scientiarum Mathematicarum* **61** (1995), 477–491.

- 65 Redheffer products and characteristic functions, *J. Math. Anal. Appl.* **196** (1995), 823-840.
- 66 A note on Cartan open subsets of $\mathbf{R}^n \times \mathbf{C}$, cu E.Pascu, *Rev. Roum. Math. Pures Appl.* **38** (1993), 35-36.
- 67 Completions of matrices and the commutant lifting theorem, *J. Functional Analysis* **104** (1992), 291-298.
- 68 A note on Parrott's strong theorem, *J. Math. Anal. Appl.* **171** (1992), 288-293.
- 69 C_p estimates for certain kernels on local fields, *Studia Math.* **88** (1988), 43-50.
- 70 C_p estimates for certain kernels : the case $0 < p < 1$, *J. Functional Analysis* **72** (1987), 368-380.
- 71 A topological characterization of Cartan open subsets of $\mathbf{R} \times \mathbf{C}$, cu E.Pascu, *Rev. Roum. Math. Pures Appl.* **31** (1986), 309-316.
- 72 Prediction theory and choice sequences: an alternate approach, *Operator Theory: Advances and Applications* **17** (1986), 341-352.
- 73 A note on C_p estimates for certain kernels, *Integral Equations Operator Theory* **9** (1986), 295-304.
- 74 On the notion of prediction in completeness theory, cu I.Suciu, in *Prediction Theory și Harmonic Analysis*, North Holl și, Amsterdam, 1983, 367-378.
- 75 A new algorithm for detecting reflection coefficients in layered media, cu Gr.Arsene, Z.Ceașescu și Fl.-A.Potra, *Ann.Geophysicae* **1** (1983), 285-290.
- 76 Remark on the Bartle-Graves theorem, *Operator Theory : Advances and Applications* **11** (1983), 389-394.
- 77 The Levinson algorithm in linear prediction, *Operator Theory : Advances and Applications* **8** (1982), 217-223.
- 78 Characterizations of some Harnack parts of contractions, cu T. Ando și I.Suciu, *J. Operator Theory* **2** (1979), 233-245.
- 79 Generalizări ale unor funcții definite pe $L(H)$, cu H.Bercovici și R.N.Gologan, *St. Cerc. Mat.* **27** (1975), 131-156.
- 80 On Riemann-Stieltjes integrability, *Rev. Roum. Math. Pures Appl.* **28** (1973), 291-293.

Cărți:

Analiză Matematică (cu A. Halanay și R.N. Gologan), două volume, 1998 și 1999, Matrixrom.

Recent Advances in Operator Theory and Operator Algebras (cu H. Bercovici, D. Kerr și E. Katsoulis), 2017 CRC Press.

Coeditor la volume de proceedings:

- *#operatortheory27*, The Theta Foundation, București, 2020.
- *Harmonic Analysis, Function Theory, Operator Theory, and Their Applications*, The Theta Foundation, București, 2018.
- *Operator Theory: Themes and Variations*, The Theta Foundation, București, 2018.
- *Operator Theory: the State of the Art*, The Theta Foundation, București, 2016.
- *The Varied Landscape of Operator Theory*, The Theta Foundation, București, 2014.
- *An Operator Theory Summer*, The Theta Foundation, București, 2012.
- *Operator Theory Live*, The Theta Foundation, București, 2010.
- *Hot Topics in Operator Theory*, The Theta Foundation, București, 2008.
- *Operator Theory 20*, The Theta Foundation, București, 2006.
- *Recent advances in operator theory, operator algebras, and their applications*, Birkhäuser Verlag, 2004.
- *Operator Theoretical Methods*, The Theta Foundation, București, 2000.
- *Operator Theory, Operator Algebras, and Related Topics*, The Theta Foundation, București, 1997.
- *Topics in Operator Theory, Operator Algebras, and Applications*, Institute of Mathematics of the Romanian Academy, București, 1995.
- *Operator Extensions, Interpolation of Functions, and Related Topics*, Birkhäuser Verlag, 1993.