

## LIST OF PUBLICATIONS

### Books in Romanian publishers

1. BRECKNER W. W., TRIF T.: *Convex Functions and Related Functional Equations. Selected Topics*. Presa Universitară Clujeană (Cluj University Press), Cluj-Napoca, 2008, xiv+390 pp. (ISBN 978-973-610-717-7)

### Textbooks

1. TRIF T.: *Probleme de calcul diferențial și integral în  $\mathbf{R}^n$ . (Problems in Differential and Integral Calculus in  $\mathbf{R}^n$ )*. Casa Cărții de Știință, Cluj-Napoca, 2003.
2. TRIF T.: *Teme pentru perfecționarea profesorilor de matematică. Vol. 3. Analiză matematică*. Casa Cărții de Știință, Cluj-Napoca, 2017, 192 pagini. (ISBN 978-606-17-1102-4)

### ISI publications

1. PINTEA C., TRIF T.: The monotonicity of perturbed gradients of convex functions. *J. Convex Anal.* **24**, 525–545 (2017).
2. BAIAS A., TRIF T.: Extensions of closed convex processes. *Carpathian J. Math.* **31**, nr. 1, 31–37 (2015).
3. TRIF T.: Existence of solutions to initial value problems for nonlinear fractional differential equations on the semi-axis. *Fract. Calc. Appl. Anal.* **16**, no. 3, 595–612 (2013), doi: 10.2478/s13540-013-0038-3.
4. TRIF T.: Approximation of functions of bounded variation by integrated Meyer-König and Zeller operators of finite type. *Studia Sci. Math. Hungarica* **49**, 254–268 (2012), doi: 10.1556/SScMath.49.2012.2.1204.
5. TRIF T.: Statistical approximation by Meyer-König and Zeller operators of finite type based on the  $q$ -integers. *Math. Comput. Modelling* **55**, 1866-1875 (2012), doi:10.1016/j.mcm.2011.11.042.
6. TRIF T.: On certain sequences derived from generalized Euler-Mascheroni constants. *J. Math. Inequal.* **5**, 107–116 (2011).
7. TRIF T.: Convex solutions to polynomial-like iterative equations on open intervals. *Aequationes Math.* **79**, no. 3, 315–325 (2010), doi:10.1007/s00010-010-0020-7.

8. **TRIF T.**: Convex solutions of a nonlinear integral equation of Urysohn type. *Fixed Point Theory Appl.* **2009**, Article ID 917614, 13 pp. (electronic) (2009), doi:10.1155/2009/917614.
9. RASSIAS TH. M., **TRIF T.**: Log-convex solutions of the second order to the functional equation  $f(x + 1) = g(x)f(x)$ . *J. Math. Anal. Appl.* **331**, 1440–1451 (2007).
10. **TRIF T.**: Convexity of the gamma function with respect to Hölder means. In *Inequality Theory and Applications*, vol. 3 (Cho Y. J., Kim J. K., and Dragomir S. S. eds.), Nova Science Publishers, New York, 2003, 189–195.
11. **TRIF T.**: On the stability of a functional equation deriving from an inequality of Popoviciu for convex functions. *J. Math. Anal. Appl.* **272**, 604–616 (2002).
12. **TRIF T.**: On the stability of a general gamma-type functional equation. *Publ. Math. Debrecen* **60**, 47–61 (2002).
13. **TRIF T.**: Hölder continuity of generalized convex set-valued mappings. *J. Math. Anal. Appl.* **255**, 44–57 (2001).
14. GAVREA I., **TRIF T.**: On Ky Fan’s inequality. *Math. Inequal. Appl.* **4**, 223–230 (2001).
15. **TRIF T.**: Hyers–Ulam–Rassias stability of a Jensen type functional equation. *J. Math. Anal. Appl.* **250**, 579–588 (2000).
16. **TRIF T.**: Combinatorial sums and series involving inverses of binomial coefficients. *Fibonacci Quart.* **38**, 79–84 (2000).
17. SÁNDOR J., **TRIF T.**: A new refinement of the Ky Fan inequality. *Math. Inequal. Appl.* **2**, 529–533 (1999).
18. **TRIF T.**: Multiple integrals of symmetric functions. *Amer. Math. Monthly* **104**, 606–609 (1997).
19. BRECKNER W. W., GÖPFERT A., **TRIF T.**: Characterization of ultrabarrelledness and barrelledness involving the singularities of families of convex mappings. *Manuscripta Math.* **91**, 17–34 (1996).

#### Papers in international journals indexed in data bases

1. **TRIF T.**: Some generalizations of an inequality due to A. Beurling. *Mathematica* **58** (81), no. 1–2, 101–110 (2016).
2. **TRIF T.**: Asymptotic behavior of intermediate points in certain mean value theorems. III. *Studia Univ. Babeş-Bolyai, Math.* **59**, no. 3, 279–288 (2014).

3. POP V., **TRIF T.**: „Traian Lalescu” national mathematical contest for university students, Timișoara 2014. *Gazeta Matematică (seria A)* **32 (111)**, nr. 3–4, 19–29 (2014).
4. **TRIF T.**: Again on passing to the limit under the integral sign. *Gazeta Matematică (seria A)* **32 (111)**, nr. 1–2, 11–18 (2014).
5. **TRIF T.**: Combinatorial sums and series involving inverses of the Gaussian binomial coefficients. *J. Combin. Number Theory* **3**, no. 3, 47–57 (2011).
6. **TRIF T.**: A Voronovskaja-type formula for the  $q$ -Meyer-König and Zeller operators. *Rev. Anal. Numér. Théor. Approx.* **40**, no. 1, 80–89 (2011).
7. FURDUI O., **TRIF T.**: On the summation of certain iterated series. *J. Integer Seq.* **14**, no. 6, Article 11.6.1, 11 pp. (electronic) (2011).
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10. **TRIF T.**: Characterizations of convex functions of a vector variable via Hermite-Hadamard’s inequality. *J. Math. Inequal.* **2**, 37–44 (2008).
11. **TRIF T.**: Hyers–Ulam–Rassias stability of a linear functional equation with constant coefficients. *Nonlinear Funct. Anal. Appl.* **11**, 881–889 (2006).
12. **TRIF T.**: Monotonicity, comparison and Minkowski’s inequality for generalized Muirhead means in two variables. *Mathematica (Cluj)* **48 (71)**, no. 1, 99–110 (2006).
13. BRECKNER W. W., **TRIF T.**: Equicontinuity and singularities of families of monomial mappings. *Studia Univ. Babeș-Bolyai, Math.* **51**, no. 3, 11–30 (2006).
14. GAVREA I., **TRIF T.**: The rate of convergence by certain new Meyer-König and Zeller operators of finite type. *Rend. Circ. Mat. Palermo (2) Suppl.* **76**, 375–394 (2005).
15. **TRIF T.**: Unique solvability of certain nonlinear boundary value problems via a global inversion theorem of Hadamard-Lévy type. *Demonstratio Math.* **38**, 331–340 (2005).
16. **TRIF T.**: Note on certain inequalities for means in two variables. *JIPAM. J. Inequal. Pure Appl. Math.* **6**, no. 2, Article 43, 5 pp. (electronic) (2005).
17. **TRIF T.**: On a characterization of  $L^p$ -norm by means of equality condition in the Hölder inequality. *Nonlinear Funct. Anal. Appl.* **9**, 325–334 (2004).

18. **TRIF T.:** Hyers–Ulam–Rassias stability of a quadratic functional equation. *Bull. Korean Math. Soc.* **40**, 253–267 (2003).
19. **TRIF T.:** An elementary proof of the preservation of Lipschitz constants by the Meyer–König and Zeller operators. *JIPAM. J. Inequal. Pure Appl. Math.* **4**, no. 5, Article 90, 3 pp. (electronic) (2003).
20. **TRIF T.:** A generalization of the Hyers–Ulam–Rassias stability of the Popoviciu functional equation. *Nonlinear Funct. Anal. Appl.* **7**, 45–54 (2002).
21. **TRIF T.:** On the superstability of certain functional equations. *Demonstratio Math.* **35**, 813–820 (2002).
22. **TRIF T.:** Sharp inequalities involving the symmetric mean. *Math. Notes (Miskolc)* **3**, 157–164 (2002).
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25. **TRIF T.:** On certain inequalities involving the identric mean in  $n$  variables. *Studia Univ. Babeş-Bolyai, Math.* **46**, no. 4, 105–114 (2001).
26. **TRIF T.:** Meyer–König and Zeller operators based on the  $q$ -integers. *Rev. Anal. Numér. Théor. Approx.* **29**, 221–229 (2000).
27. **TRIF T.:** Pairs of adjoint sets of Riemann–Stieltjes integrable functions. *Studia Univ. Babeş-Bolyai, Math.* **45**, no. 2, 115–120 (2000).
28. BRECKNER W. W., **TRIF T.**, VARGA C.: Some applications of the condensation of the singularities of families of nonnegative functions. *Anal. Math.* **25**, 15–32 (1999).
29. **TRIF T.:** Positive solutions of a nonlinear integral equation from biomathematics. *Demonstratio Math.* **32**, 129–138 (1999).
30. BRECKNER W. W., **TRIF T.:** Equicontinuity and Hölder equicontinuity of families of generalized convex mappings. *New Zealand J. Math.* **28**, 155–170 (1999).
31. **TRIF T.:** Some counterexamples in generalized convexity. *Mathematica (Cluj)* **41** (64), 121–124 (1999).
32. **TRIF T.:** Singularities and equicontinuity of certain families of set-valued mappings. *Comment. Math. Univ. Carolin.* **39**, 353–365 (1998).
33. BRECKNER W. W., **TRIF T.:** On the singularities of certain families of nonlinear mappings. *Pure Math. Appl.* **6**, 121–137 (1995).

## Other papers

1. **TRIF T.**: Popoviciu's and related functional equations: a survey. In *Inequalities and Applications* (Rassias Th. M. and Andrica D. eds.), Cluj University Press, Cluj-Napoca, 2008, 273–286. (ISBN 978–973–610–793–1)
2. **TRIF T.**: On the stability of the Popoviciu functional equation on bounded domains. In *Stability of Functional Equations of Ulam–Hyers–Rassias Type* (Czerwik S. editor), Hadronic Press, Palm Harbor, 2003, 173–180. (ISBN 1–57485–057–1)
3. **TRIF T.**: On the functional equation  $f(x + y + xy) = f(x) + f(y) + f(xy)$ . In *Stability of Functional Equations of Ulam–Hyers–Rassias Type* (Czerwik S. editor), Hadronic Press, Palm Harbor, 2003, 161–172. (ISBN 1–57485–057–1)
4. **TRIF T.**: A sharp inequality for vector norms. *Octogon Math. Mag.* **10**, no. 1, 108–110 (2002).
5. **TRIF T.**: Asupra unei probleme de la faza județeană a olimpiadei de matematică 2001. *Gazeta Matematică* **106**, nr. 11, 394–396 (2001).
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8. TRIF R., **TRIF T.**: Asupra problemei O:840 din Gazeta Matematică nr. 1/1997. *Lucr. Sem. Did. Mat.* **16**, 213–218 (2000).
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11. BRECKNER W. W., **TRIF T.**, VARGA C.: Some applications of the condensation of the singularities of families of nonnegative functions (II). In *Approximation and Optimization. Proceedings of the International Conference on Approximation and Optimization–Cluj-Napoca 1996* (Stancu D. D. et al. eds.), Transilvania Press, Cluj-Napoca, 1997, 193–202.
12. BRECKNER W. W., GÖPFERT A., **TRIF T.**: Characterizations of barrelled spaces and ultrabarrelled spaces by means of convex mappings. In *Methods of Multicriteria Decision Theory. Proceedings of the 6th Workshop of the DGOR–Working Group, Multicriteria Optimization and Decision Theory–Alexisbad 1996* (Göpfert A. et al. eds.), Hänsel–Hohenhausen, Egelsbach–Fankfurt–Washington, 1997, 13–18.

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14. **TRIF T.:** Asupra unei probleme de analiză. *Gazeta Matematică* **101**, nr. 2, 77–81 (1996).
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19. **FURDEK A., TRIF T.:** Probleme de evaluare asimptotică. În *Buletinul Matematic editat cu ocazia Olimpiadei naționale de matematică*, Arad, 1986, 112–118.