

## **LISTĂ DE LUCRĂRI**

### **TEZA DE DOCTORAT**

Metoda Newton pe varietăți diferențiable. Universitatea POLITEHNICA din București, 2006,  
coordonator științific Prof. Dr. Constantin UDRIȘTE

### **CĂRȚI ȘI CAPITOLE DE CĂRȚI PUBLICATE ÎN EDITURI RECUNOSCUTE**

- [1] G. Bercu, Y. Matsuyama, M. Postolache: Hessian Metrics & Ricci Solitons. Fair Partners Publishers, 2011, (182 pag.) București, ISBN 978-973-1877-60-0
- [2] G. Bercu, L. Dăuș, A.L. Pletea, D. Roșu, M. Vlădoiu, C. Voica: Linear Algebra, Analytic Geometry, Differential Geometry and Elements of Tensor Algebra, StudIS, Iași, 2013
- [3] G. Bercu, Linear Algebra. Analytic and Differential Geometry (in Romanian). Fair Partners Publishers, 2009, (120 pag), ISBN 978-973-1877-24-2
- [4] G. Bercu: Riemannian Newton algorithm with variable step for positive bounded Hessian functions. In *Lagrange and Hamilton Geometries and Their Applications*, Radu Miron (ed.), Fair Partners Publishers, 49(2004), 41-46, ISBN 973-8470-29-3

### **ARTICOLE ÎN JURNALE ISI**

- [1] M. Alomari, G. Bercu, C. Chesneau, H. Alaqad: On Some Inequalities for the Generalized Euclidean Operator Radius, *Axioms* 12(2023), No. 6, Art. No. 542
- [2] M. Alomari, G. Bercu, C. Chesneau: On the Dragomir Extension of Furuta's Inequality and Numerical Radius Inequalities, *Symmetry - Basel* 14(2022), No. 7, Art. No. 1432
- [3] G. Bercu: Refinements of Huygens-Wilker-Lazarović inequalities via the hyperbolic cosine polynomials. *Appl. Anal. Discrete Math.* 16(2022), 91-110
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- [6] G. Bercu: Refinements of Wilker-Huygens-type inequalities via trigonometric series. *Symmetry-Basel* 13(2021), No. 8, Art. No. 1323
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- [8] G. Bercu: New refinements for the error function with applications in diffusion theory. *Symmetry-Basel* 12(2020), Art. No. 2017
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- [10] G. Bercu: Fourier series method related to Wilker-Cusa-Huygens inequalities. *Math. Inequal. Appl.* 22(2019), No. 4, 1091-1098
- [11] G. Bercu: Sharp Bounds on the Sinc Function via the Fourier Series Method. *J. Math. Inequal.* 13(2019), No. 2, 495-504
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- [13] S. Wu, G. Bercu: Fast convergence of generalized DeTemple sequences and the relation to the Riemann zeta function. *J. Inequal. Appl.* (2017), 2017:110

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- [16] G. Bercu: Sharp refinements for the inverse sine function related to Shafer-Fink's inequality. *Math. Probl. Eng.*(2017), ID 9237932, 5 pages
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