

LISTA DE LUCRĂRI

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1 Cărți

1. *Representations of many-valued algebras*, Universitatea din București, 2004.

2 Capitole în cărți

1. *Nonexpansive iterations in uniformly convex W -hyperbolic spaces*, in A. Leizarowitz, B. S. Mordukhovich, I. Shafrir, A. Zaslavski (Editors): *Nonlinear Analysis and Optimization I: Nonlinear Analysis*, Contemporary Mathematics, Vol. 513 (2010), AMS, 193-209.

3 Articole în reviste

1. *Effective results on compositions of nonexpansive mappings* (cu A. Nicolae)
arXiv:1306.5307 [math.FA], 2013; acceptat spre publicare în *Journal of Mathematical Analysis and Applications*
2. *Firmly nonexpansive mappings in classes of geodesic spaces* (cu D. Ariza-Ruiz și G. López-Acedo),
arXiv:1203.1432v2 [math.FA], 2012; acceptat spre publicare în *Transactions of the American Mathematical Society*.
3. *Effective metastability of Halpern iterates in $CAT(0)$ spaces* (cu U. Kohlenbach),
Advances in Mathematics, Vol. 231 (2012), No. 5, 2526-2556.

4. *On the computational content of convergence proofs via Banach limits* (cu U. Kohlenbach),
Philosophical Transactions of the Royal Society A, Vol. 370 (2012),
No. 1971, 3449–3463,
Theme Issue *The foundations of computation, physics and mentality:
the Turing legacy*.
5. *Alternative iterative methods for nonexpansive mappings, rates of convergence and application* (cu V. Colao, G. López-Acedo și V. Martin-Marquez),
Journal of Convex Analysis, Vol. 18 (2011), No. 2, 465-487.
6. *Asymptotically nonexpansive mappings in uniformly convex hyperbolic spaces* (cu U. Kohlenbach),
Journal of the European Mathematical Society, Vol. 12 (2010), No. 1,
71-92.
7. *Maximal residuated lattices with lifting Boolean center* (cu G. Georgescu și C. Mureșan),
Algebra Universalis, Vol. 63 (2010), No. 1, 83-99.
8. *A quantitative Mean Ergodic Theorem for uniformly convex Banach spaces* (cu U. Kohlenbach),
Ergodic Theory and Dynamical Systems, Vol. 29 (2009), No. 6, 1907-1915.
9. *Rates of asymptotic regularity for Halpern iterations of nonexpansive mappings*,
Journal of Universal Computer Science, Vol. 13 (2007), No. 11, 1680-1691;
in C.S. Calude, G. Ștefănescu, and M. Zimand (Editors): *Combinatorics and Related Areas. A Collection of Papers in Honor of the 65th Birthday of Ioan Tomescu*.
10. *The approximate fixed point property in product spaces* (cu U. Kohlenbach),
Nonlinear Analysis Series A: Theory, Methods & Applications, Vol. 66 (2007), No. 4, 806-818.

11. *A quadratic rate of asymptotic regularity in $CAT(0)$ -spaces*,
Journal of Mathematical Analysis and Applications, Vol. 325 (2007),
No. 1, 386-399.
12. *Proof mining in $\mathbb{R}$ -trees and hyperbolic spaces*,
Electronic Notes in Theoretical Computer Science, Vol. 165 (2006),
Elsevier, 95-106
13. *Baer extensions of BL-algebras*,
Journal of Multiple-Valued Logic and Soft Computing, Vol. 12 (2006),
No. 3-4, 321-336.
14. *Sheaf representations of BL-algebras*,
Soft Computing, Vol. 9 (2005), No. 12, Special issue on BL-algebras,
897-909.
15. *Pseudo-hoops* (cu G. Georgescu și V. Preoteasa),
Journal of Multiple-Valued Logic and Soft Computing, Vol. 11 (2005),
No. 1-2, 153-184.
16. *Compact representations of BL-algebras* (cu A. Di Nola),
Archive for Mathematical Logic, Vol. 42 (2003), No. 8, 737 - 761.
17. *Mann iterates of directionally nonexpansive mappings in hyperbolic spaces* (cu U. Kohlenbach),
Abstract and Applied Analysis, Vol. 2003 (2003), 449-477.
18. *The prime and maximal spectra and the reticulation of BL-algebras*,
Central European Journal of Mathematics, Vol. 1 (2003), No. 3, 382-397.
19. *Canonical models and filtrations in three-valued propositional modal logic*,
Journal of Multiple-Valued Logic, Vol. 8 (2002), No. 1-2, 577-590.
20. *Some classes of pseudo-BL algebras* (cu G. Georgescu),
Journal of Australian Mathematical Society, Vol. 73 (2002), No. 1,
127-153.
21. *Boolean products of BL-algebras* (cu A. Di Nola și G. Georgescu),
Journal of Mathematical Analysis and Applications, Vol. 251 (2000),
No. 1, 106-131.

22. *Some algebraic properties of non-commutative fuzzy structures*,
Studies in Informatics and Control, Vol. 9 (2000), No. 4, 365-370.

4 Publicații în conferințe și workshopuri

1. *Certifying optimality of state estimation programs* (cu G. Roșu, R. Prasad Venkatesan și J. Whittle),
Lecture Notes in Computer Science, Vol. 2725 (2003), Springer, 301-314;
in W. A. Hunt Jr., F. Somenzi (Editors): Computer Aided Verification, 15th International Conference, CAV 2003, Boulder, CO, USA, 8-12 July 2003, Proceedings.

5 Rapoarte tehnice și preprinturi

1. *Proof mining in metric fixed point theory and ergodic theory* Oberwolfach Preprints, OWP 2009-05, Mathematisches Forschungsinstitut Oberwolfach, Germany.
2. *Certifying Kalman Filters* (cu G. Roșu),
RIACS Technical Report TR.03.02, Research Institute for Advanced Computer Science (RIACS), NASA Ames Research Center, Moffet Field, CA, USA, January 2003, 53pp.
3. *Detecting errors in domain theories* (cu J. Richardson),
preprint, 2003.

6 Lucrări trimise spre publicare

1. *Effective results on nonlinear ergodic averages in $CAT(k)$ spaces* (cu A. Nicolae)
arXiv:1305.5916 [math.FA], 2013.
2. *An application of proof mining to nonlinear iterations*
arXiv:1211.2991v2 [math.LO], 2012.

7 Rezumate publicate

1. *Recent developments in proof mining* (cu U. Kohlenbach),
in S. Buss, U. Kohlenbach, M. Rathjen (Editors): Workshop Mathematical Logic: Proof Theory, Constructive Mathematics, November 6-12, 2011, Mathematisches Forschungsinstitut Oberwolfach;
Oberwolfach Report, Vol. 5 (2011), Issue 4, European Mathematical Society Publishing House.
2. *Recent results in proof mining* (cu U. Kohlenbach),
in S. Buss, U. Kohlenbach, H. Schwichtenberg (Editors): Workshop Mathematical Logic: Proof Theory, Constructive Mathematics, April 6-12, 2008, Mathematisches Forschungsinstitut Oberwolfach;
Oberwolfach Reports, Vol. 5 (2008), Issue 2, European Mathematical Society Publishing House.
3. *Proof mining in $CAT(0)$ -spaces and $\mathbb{R}$ -trees*,
in R. Daverman, S. Friedlander, M. Lapidus, M. Miller, L. Sibner (Editors): Abstracts of Papers presented to the American Mathematical Society, Volume 28, No. 1, Issue 147, AMS, 2007, 16.
4. *Approximate fixed points of nonexpansive functions in product spaces* (cu U. Kohlenbach),
in T. Cocquand, H. Lombardi, M.-F. Roy (Editors): Mathematics, Algorithms, Proofs, January 9-14, 2005, Dagstuhl Seminar Proceedings 05021, Internationales Begegnungs- und Forschungszentrum (IBFI), Schloss Dagstuhl, Germany, 2006.
5. *Approximate fixed point property in product spaces* (cu U. Kohlenbach),
in S. Buss, Y. Moschovakis, H. Schwichtenberg (Editors): Workshop Mathematical Logic: Proof Theory, Type Theory and Constructive Mathematics, March 20-26, 2005, Mathematisches Forschungsinstitut Oberwolfach;
Oberwolfach Reports, Vol. 2 (2005), Issue 1, European Mathematical Society Publishing House.