

LIST OF PUBLICATIONS (selection)

Nicolae Adrian Secelean

Habilitation thesis

“*New results in the theory of countable iterated function systems*”, Babes-Bolyai University of Cluj-Napoca, 2015

Ph.D. thesis

“*Applications of measure theory in the study of fractals*”, Romanian Academy, Bucharest, 2001

Books and book chapters

- C1 **N.A. Secelean**, [*Countable Iterated Function Systems*](#), LAP Lambert Academic Publishing, 2013, ISBN-13: 978-3-659-32030-9; ISBN-10: 3659320307, EAN: 9783659320309, 216 p.
- C2 P.T. Crăciunaș, **N.A. Secelean**, S. Crăciunaș – *Analiză Matematică pe dreapta reală*, Editura ULB, Sibiu, 2010, ISBN 978-606-12-0020-7, 200 pages
- C3 A. Branga, S. Crăciunaș, **N.A. Secelean** – [*Analiză Funcțională și Teoria Aproximării*](#), Ed. Casa Cărții de Știință, Cluj-Napoca, 2009, ISBN 978-973-133-545-2, 303 pages
- C4 **N.A. Secelean**, E. De Amo: [*Topology: from Fundamentals to Euclidean Spaces*](#), Editorial Universidad Almería, Spain, 2008, ISBN 978-84-8240-912-2, 194 pages
- C5 L. Ardelean, **N. Secelean**: *Didactica Matematicii – noțiuni generale; comunicare didactică specifică matematicii*, Editura ULB, Sibiu, 2007, ISBN 978-973-739-497-2, 166 pages
- C6 L. Ardelean, **N. Secelean**: *Didactica Matematicii – managementul, proiectarea și evaluarea activităților didactice*, Editura ULB, Sibiu, 2007, ISBN 978-973-739-498-9, 189 pages
- C7 **N.A. Secelean**, *Numărare, statistică, probabilități*, Ed. Credis, 2005, Proiect MEC, ISBN 973-0-04241-1, 87 pages
- C8 **N.A. Secelean**: *Măsură și Fractali*, Editura ULB, Sibiu, 2002, ISBN: 973-651-456-0, 220 pages
- C9 P.T. Crăciunaș, **N.A. Secelean**, S. Crăciunaș: *Elemente de Teoria Distribuțiilor*, Ed. Universității “Gheorghe Asachi”, Iași, 2002, ISBN: 973-8292-99-9, 246 pages
- C10 S. Crăciunaș, **N.A. Secelean**, P.T. Crăciunaș: *Analiză Funcțională, noțiuni fundamentale*, Editura ULB, Sibiu, 2000, ISBN: 973-651-103-0, 158 pages
- C11 I. Chițescu, **N.A. Secelean**: *Elemente de Teoria Măsurii și Integralei*, Ed. “România de Măine”, București, 1999, ISBN: 973-582-140-0, 262 pages
- C12 **N.A. Secelean**: *Probleme de Topologie*, Editura ULB, Sibiu, 1995 ISBN: 973-95604-2-9, 130 pages

C13 S. Crăciunaș, N. Secelean, P. Crăciunaș: *Elemente de Topologie*, Editura ULB, Sibiu, 1993, ISBN: 973-95604-6-6, 102 pages

Articles/studies in extenso, published in journals from the main international scientific flux

Articles in ISI journals

1. N.A. Secelean, [Suzuki \$\psi\$ \$F\$ -contractions and some fixed point results](#), Carpathian Journal of Mathematics, Vol. **34** (2018), No.1, 93-102
2. N.A. Secelean, D. Wardowski, [New Fixed Point Tools in Non-metrizable Spaces](#), Results. Math. Vol. **72** (2017), 919–935, Issue 1-2, DOI: 10.1007/s00025-017-0688-2
3. R. Balu, S. Mathew, N.A. Secelean, [Separation properties of \$\(n, m\)\$ -IFS attractors](#), Communications in Nonlinear Science and Numerical Simulation, Vol. **51** (2017), 160-168, <http://doi.org/10.1016/j.cnsns.2017.04.009>
4. N.A. Secelean, D. Wardowski, [\$\psi\$ \$F\$ -Contractions: Not Necessarily Nonexpansive Picard Operators](#), Results. Math., Vol. **70** (2016), Issue 3, 415–431
DOI:10.1007/s00025-016-0570-7
5. N.A. Secelean, [Weak \$F\$ -contractions and some fixed point results](#), Bulletin of the Iranian Mathematical Society, Vol. **42** (2016), Issue 3, 779-798
6. N.A. Secelean, [Generalized \$F\$ -iterated function systems on product of metric spaces](#), Journal of Fixed Point Theory and Applications, **17** (2015) 575–595,
DOI: 10.1007/s11784-015-0235-2,
7. E.C. Popa, N.A. Secelean, [Estimates for the constants of Landau and Lebesgue via some inequalities for the Wallis ratio](#), Journal of Computational and Applied Mathematics, Vol. **269** (2014), 68-74, DOI: 10.1016/j.cam.2014.03.020
8. N.A. Secelean, [Generalized Iterated Function Systems on the space \$l^\infty\(X\)\$](#) , Journal of Mathematical Analysis and Applications, Vol. 410, Issue 2, 15. Feb. 2014, 847-858,
DOI:10.1016/j.jmaa.2013.09.007
9. N.A. Secelean, [Iterated Function Systems consisting of \$F\$ -contractions](#), Fixed Point Theory and Applications, 2013, **2013**:277, DOI:10.1186/1687-1812-2013-277,
10. M. Olaru, N.A. Secelean, [Vector comparison operators in cone metric spaces](#), Mathematical Report, Vol. **16** (66), No.3 (2014), 431-442
11. N.A. Secelean, [Invariant measure associated with a Generalized Countable Iterated Function System](#), Mediterranean Journal of Mathematics, **11** (2014), 361-372, DOI 10.1007/s00009-013-0300-2

12. L. Suciuc , W. Majdak , **N.A. Secelean**, [*Ergodic properties of operators in some semi-Hilbertian spaces*](#), Linear and Multilinear Algebra, vol. **61**, issue 2, 2013, p.139-159 DOI: 10.1080/03081087.2012.667094
13. **N.A. Secelean**, [*The existence of the attractor of countable iterated function systems*](#), Mediterranean Journal of Mathematics, No. 1, Vol. **9**, 2012, pp. 61-79 DOI: 10.1007/s00009-011-0116-x,
14. E.C. Popa, **N.A. Secelean**, [*On some inequality for the Landau constants*](#), Taiwanese Journal of Mathematics, Vol.**15**, No.**4**, August 2011, p. 1457-1462,
15. **N.A. Secelean**, [*Continuous dependence on a parameter of the countable fractal interpolation Function*](#), Carpathian Journal of Mathematics, **27**, 2011, No.1, p.131-141
16. **N.A. Secelean**, [*Fractal countable interpolation scheme: existence and affine invariance*](#), Mathematical Reports, Volume: **13**, Issue: **1**, 2011, p. 75-87,
17. A Mihail, **N.A. Secelean**, [*On the connectivity of the attractors of recurrent iterated function systems*](#), Mathematical Reports, vol. **13(63)**, No. **4**, 2011, p. 363-376,
18. **N.A. Secelean**, [*Generalized countable iterated function systems*](#), Filomat, **25:1** (2011), p.21-36,DOI:10.2298/FIL1101021S,
19. E. de Amo, I. Chişescu, M. Díaz Carrillo, **N.A. Secelean**: [*A new approximation procedure for fractals*](#), Journal of Computational and Applied Mathematics, vol. **151**, Issue **2**, 2003, p.355-370, DOI:10.1016/S0377-0427(02)00752-5,

Other articles in journals indexed in international data basis

1. **N.A. Secelean**: *Approximation of the attractor of a countable iterated function system*, General Mathematics, nr.**3**, vol.**17**, 2009, p.221-231 ([Zbl 1199.28033](#))
<http://depmath.ulbsibiu.ro/genmath/gm/vol17nr3/cuprins173.html>
2. M. Bezzarga, E. Moldoveanu, **N. Secelean**: *Dual Resolvent for Semi-dynamical Systems*, Buletin Ştiinţific - University of Piteşti, Ser. Mathematics and Informatics, Nr. **11**, 2005, p.27-44, ([Zbl 1249.31009](#))
3. **N.A. Secelean**: *Parameterized curve as attractors of some countable iterated function systems*, Archivum Mathematicum, Tomus 40, 2004, p.287-293 ([Zbl 1115.28008](#))
<http://dml.cz/dmlcz/107911>
4. **N.A. Secelean**: *The fractal interpolation for countable systems of data*, Publications of the Faculty of Electrical Engineering, University of Belgrade, vol.**14**, 2003, p.11-19 ([Zbl 1090.28006](#))
5. **N.A. Secelean**: *Some continuity and approximation properties of a countable iterated function system*, Mathematica Pannonica, vol.**14**, nr.2, 2003, p.237-252 ([Zbl 1048.37021](#))
http://ttk.pte.hu/mii/html/pannonica/index_elemei/vol_14_2_cont.htm

6. N.A. Secelean: *A sufficient condition for the existence of invariant set for a system of functions*, Analele Universității București, vol.**51**, 2002, p. 189-196 ([Zbl 1084.47526](#))

7. N.A. Secelean: *The Invariant Measure of an Countable Iterated Function System*, Seminarberichte aus dem Fachbereich Mathematik, Band **73**, 2002, p.3-10

https://www.fernuni-hagen.de/mathinf/forschung/berichte_mathematik/bericht_2002.shtml

8. N.A. Secelean: *The Hausdorff Dimension and the Similarity in Case of Countable Iterated Function System*, Seminarberichte aus dem Fachbereich Mathematik, Band **73**, 2002, p.41-52

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9. N.A. Secelean: *The code space associated with a Countable Iterated Function System*, General Mathematics, vol. **9**, nr.3-4, 2001, p.61-70 ([Zbl 1073.37506](#))

10. N.A. Secelean: *Any compact subset of a metric space is the attractor of a CIFS*, Bull. Math. Soc. Sc. Math. Roumanie, tome **44** (92), nr.3, 2001, p.77-89, ([Zbl 1052.37012](#))

11. N.A. Secelean: *Countable Iterated Function Systems*, Far East Journal of Dynamical Systems **3**(2), 2001, p.149-167 ([Zbl 1004.28002](#))

http://www.pphmj.com/article.php?act=art_view&search=secelean

12. N.A. Secelean: *Generation of some fractals*, Bull. Math. Soc. Sc. Math. Roumanie, tome **44** (92), nr.1, 2001, p.77-89, ([Zbl 1049.28008](#))

13. N.A. Secelean: *Some convergence properties in the Hausdorff-Pompeiu metric*, General Mathematics, vol. **8**, nr.1-2, 2000, p.45-53 ([Zbl 1240.54100](#))

<http://depmath.ulbsibiu.ro/genmath/gm/vol8/cuprins8.html>

14. N.A. Secelean: *Some sets of non-integral dimension*, Mathematical Reports, tom.**49**, nr.3-4, 1997, p.267-276 ([Zbl 0885.28004](#))

15. N.A. Secelean: *Some dimension results for Cartesian product sets*, General Mathematics, vol. **2**, nr.3, 1994, p.127-132

Other scientific contributions

C14. D. Acu, A. Bucur, **N.A. Secelean**, E. Drăghici, *Proceedings of the 6th annual conference of the Romanian Society of Mathematical Sciences, Sibiu, Romania, May 23-25, 2002. Vol. I.*, Editura ULB, Sibiu, xiv, 2003, 368 p. ISBN: 973-651-634-2 ([Zbl 1015.00014](#));

C15. D. Acu, A. Bucur, **N.A. Secelean**, E. Drăghici, *Proceedings of the 6th annual conference of the Romanian Society of Mathematical Sciences, Sibiu, Romania, May 23--25, 2002. Vol.II.* Editura ULB, Sibiu, ii, 2003, 192 p. ISBN: 973-651-649-0 ([Zbl 1015.00015](#));