

**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. Niralda, S. Mathew, **N.A. Secelean**, [On boundaries of attractors in dynamical systems, Communications in Nonlinear Science and Numerical Simulation](#), Vol. **94**, March 2021, 105572, DOI: 10.1016/j.cnsns.2020.105572
2. M. Zhou, M.K. Jain, M.S. Khan, **N.A. Secelean**, [Semi-compatible mappings and common fixed point theorems of an implicit relation via inverse C-class functions](#), AIMS Mathematics, Vol. **6**, Issue 3, 2020: 2636–2652. DOI:10.3934/math.2021160
3. M. Zhou, L. Xiao-lan, **N.A. Secelean**, [Fixed Point Theorems for Generalized Kannan-Type Mappings in a New Type of Fuzzy Metric Space](#), Journal of Mathematics, Vol. 2020, Article number: 1712486, Published May 31 2020, p.1-16, DOI:10.1155/2020/1712486
4. **N.A. Secelean**, D. Wardowski, [Expansive mappings on bounded sets and their application to rational integral equations](#), Revista de la Real Academia de Ciencias Exactas Físicas y Naturales Serie A-Matemáticas (2020), Volume: **114**, Issue: 3, Article Number: 134, p.1-9, DOI: 10.1007/s13398-020-00868-6
5. **N.A. Secelean**, [A New Kind of Nonlinear Quasicontractions in Metric Spaces](#), Mathematics 2020, Vol. **8**, Issue: 5, Article Number: 661, Published April 2020, DOI: 10.3390/math8050661
6. **N.A. Secelean**, M. Zhou, [Generalized F-Contractions on Product of Metric Spaces](#), Mathematics 2019, **7**, 1040; 1-8; doi:10.3390/math7111040
7. M. Zhou, X.L. Liub, **N.A. Secelean**, [On coincidence and common fixed point theorems of eight self-maps satisfying an F M-contraction condition](#), Nonlinear Analysis: Modelling and Control **2019**, Vol. **24**, No. 6,1001–1018
8. **N.A. Secelean**, S. Mathew, D. Wardowski, [New fixed point results in quasi-metric spaces and applications in fractals theory](#), Advances in Difference Equations 2019, 2019:177, 1-23, <https://doi.org/10.1186/s13662-019-2119-z>
9. **N.A. Secelean**, [Suzuki  \$\psi\$  F-contractions and some fixed point results](#), Carpathian Journal of Mathematics, Vol. **34** (2018), No.1, 93-102
10. **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
11. 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>

12. 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
13. N.A. Secelean, [Weak F-contractions and some fixed point results](#), Bulletin of the Iranian Mathematical Society, Vol. **42** (2016), Issue 3, 779-798
14. 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
13. 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
14. 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
15. 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,
16. M. Olaru, N.A. Secelean, [Vector comparison operators in cone metric spaces](#), Mathematical Report, Vol. **16** (66), No.3 (2014), 431-442
17. 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
18. 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
19. 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,
20. 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,
21. 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
22. N.A. Secelean, [Fractal countable interpolation scheme: existence and affine invariance](#), Mathematical Reports, Volume: **13**, Issue: **1**, 2011, p. 75-87,
23. 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,

24. **N.A. Secelean**, [\*Generalized countable iterated function systems\*](#), Filomat, **25:1** (2011), p.21-36, DOI:10.2298/FIL1101021S,
25. 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](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 Universităţii Bucureşti, 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](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  
[https://www.fernuni-hagen.de/mathinf/forschung/berichte\\_mathematik/bericht\\_2002.shtml](https://www.fernuni-hagen.de/mathinf/forschung/berichte_mathematik/bericht_2002.shtml)
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](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](#));