

Nume Prenume: SUCIU LAURIAN
Gradul didactic: Profesor universitar doctor
Instituția unde este titular: Universitatea "Lucian Blaga" din Sibiu
Facultatea: de Științe
Departamentul: Matematică și Informatică

LISTA DE LUCRĂRI PUBLICATE

A. Teza de doctorat și abilitare

Titlul de doctor în domeniul *Matematică* /anul 2006

Titlul tezei de doctorat " *Structure, ergodicity and applications of A -contractions*", University Claude Bernard Lyon 1, France.

Atestatul de Abilitare și calitatea de conducător de doctorat în domeniul Matematică. (OM nr. 3966/07.06.2016)

C. Lucrări indexate ISI / BDI

C1- Lucrări indexate ISI

Research Activity:

1. Aurelian Craciunescu, Laurian Suciu and Elisabeta-Alina Totoi, *Mediterranean Journal of Mathematics*, 21:2, 2024. DOI10.1007/s00009-024-02601-8
2. Laurian Suciu, *Wold Decompositions and Brownian type operators*, *REVUE ROUMAINE DE MATHEMATIQUES PURES ET APPLIQUEES*, 68 3-4, 369-381, 2023.
3. Laurian Suciu, *Operators with expansive m -isometric liftings*, *Monatshefte für Mathematik*, 2022, 1-23. <https://doi.org/10.1007/s00605-021-01648-z>
4. Laurian Suciu, *Operators with Brownian unitary dilations*, *Carpathian J. Math.*, vol. 38, 2022, No. 3, 619-630.
5. Laurian Suciu: *Asymptotic properties for compressions of two-isometries*, *Quaestiones Mathematicae*, 2022, 1-26. DOI: 10.2989/16073606.2022.2131651
6. Laurian Suciu, Elisabeta Alina Totoi, *Three-isometric liftings with invariant isometric part*, *Banach J. Math. Anal.* 2021 15:66. <https://doi.org/10.1007/s43037-021-00150-w>
7. Catalin Badea, Vladimir Muller, and Laurian Suciu, *High order isometric liftings and dilations*, *Studia Mathematica*, 258 (1), 2021, 87-101. DOI: 10.4064/sm200330-25-8
8. Catalin Badea and Laurian Suciu, *Hilbert spaces operators with two isometric dilations*, *Journal of Operator Theory*, 86:1 2021, 93–123. doi: 10.7900/jot.2020feb05.2298.
9. Witold Majdak and Laurian Suciu, *Convex and expansive liftings close to two-isometries and power bounded operators*, *Linear Algebra and its Applications*, 617, 2021, 1-26. <https://doi.org/10.1016/j.laa.2021.01.009>
10. Witold Majdak and Laurian Suciu, *Triangulations of Operators with Two-Isometric Liftings*, *Integral Equations and Oper. Theory*, 2021,93:10. <https://doi.org/10.1007/s00020-021-02625-9>.
11. Laurian Suciu, *Liftings and extensions of operators in Brownian setting*, pp. 1-18, 2020, *Linear and Multilinear Algebra*. <https://doi.org/10.1080/03081087.2020.1819948>
12. Laurian Suciu, *On operators with two-isometric liftings*, *Complex Analysis and Operator Theory*, 14:5, 1-16, 2020. <https://doi.org/10.1007/s11785-019-00960-9>
13. Witold Majdak and Laurian Suciu, *Brownian type parts of operators in Hilbert spaces*, *Results in Mathematics*, 75:5, 1-23, 2020. <https://doi.org/10.1007/s00025-019-1130-8>
14. Witold Majdak and Laurian Suciu, *Brownian isometric parts of concave operators*, *New York J. Math.* 25, 1067–1090, 2019. <http://nyjm.albany.edu/j/2019/25-46.html>
15. Catalin Badea and Laurian Suciu, *Similarity problems, Folner sets and isometric representations of amenable semigroups*, *Mediterranean Journal of Mathematics* 16:5, 2019. <https://doi.org/10.1007/s00009-018-1294-6>

16. Catalin Badea and Laurian Suciu, The Cauchy dual and 2-isometric liftings of concave operators, *Journal of Math. Anal. and Appl.* 472, 1458-1474, 2019. <https://doi.org/10.1016/j.jmaa.2018.12.002>
17. Catalin Badea and Laurian Suciu, Harnack and Shmul'yan preorder relations for Hilbert space contractions, *Indagationes Mathematicae* 28 (4), 892-912, 2017. <https://doi.org/10.1016/j.indag.2017.06.012>
18. Laurian Suciu, Estimations of the operator resolvent by higher order Cesaro means, *Results in Mathematics* 69(3), pp. 457-475, 2016. <https://doi.org/10.1007/s00025-016-0533-z>
19. Witold Majdak, Mostafa Mbekhta, and Laurian Suciu, Operators intertwining with isometries and Brownian parts of 2-isometries, *Linear Algebra and its Applications* 509 (15), 168-190, 2016. <https://doi.org/10.1016/j.laa.2016.07.014>
20. Mostafa Mbekhta and Laurian Suciu, Generalized inverses and similarity to partial isometries, *Journal of Mathematical Analysis and Applications* vol. 372, issue 2, pp. 559-564, 2010. <https://doi.org/10.1016/j.jmaa.2010.06.022>
21. Mostafa Mbekhta and Laurian Suciu, Classes of operators similar to partial isometries, *Integral Equations and Operator Theory* Volume 63, Number 4, pp. 571-590, 2009. <https://doi.org/10.1007/s00020-009-1671-4>

Scientific contribution :

22. Aurelian Craciunescu and Laurian Suciu, Brownian extensions in the context of three-isometries, *Journal of Mathematical Analysis and Applications* vol. 529, 1, 127591, 2024. <https://doi.org/10.1016/j.jmaa.2023.127591>
23. Laurian Suciu, Brownian Type Extensions for a Class of m-Isometries, *Results in Mathematics*, 78 4, 1-29, 2023. <https://link.springer.com/content/pdf/10.1007/s00025-023-01917-3.pdf>
24. Laurian Suciu, Ergodic behaviors of the regular operator means, *Banach Journal of Mathematical Analysis*, 11, No. 2, 239-265, 2017. doi:10.1215/17358787-3796878
25. Catalin Badea, Laurian Suciu, and Dan Timotin, Classes of contractions and Harnack domination, *Revista Matematica Iberoamericana*, 33 (2), 469-488, 2017. DOI: 10.4171/RMI/945
26. Alexandru Aleman and Laurian Suciu, On ergodic operator means in Banach spaces, *Integral Equations and Operator Theory*, vol. 85 pp. 259-287, 2016. <https://doi.org/10.1007/s00020-016-2298-x>
27. Mostafa Mbekhta and Laurian Suciu, Partial isometries and the conjecture of C. K. Fong and S. K. Tsui, *Journal of Mathematical Analysis and Applications* Vol. 437, pp. 431-444, 2016. <https://doi.org/10.1016/j.jmaa.2015.12.057>
28. Michael Lin, David Shoikhet, and Laurian Suciu, Remarks on uniform ergodic theorems, *Acta Sci. Math. (Szeged)* Vol. 81, pp. 251-283, 2015. DOI: 10.14232/actasm-012-307-4
29. Laurian Suciu and Jaroslav Zemánek, Growth conditions on Cesaro means of higher order, *Acta Sci. Math. (Szeged)* Vol. 79, no 3-4, pp. 545-581, 2013.
30. Mostafa Mbekhta and Laurian Suciu, Quasi-isometries associated to A-contractions, *Linear Algebra and its Applications* Vol. 459, pp. 430-453, 2014. <https://doi.org/10.1016/j.laa.2014.07.016>
31. Laurian Suciu and Nicolae Suciu, Borel-Carathéodory and Fan Type Inequalities for Hilbert space bicontractions, *Complex Analysis and Operator Theory* Vol. 8, Issue 1, pp. 227-241, 2014. <https://doi.org/10.1007/s11785-013-0291-9>
32. Laurian Suciu, Saturation for Cesaro means of higher order, *Operators and Matrices* Vol. 7, no. 3, pp. 557-572, 2013. [dx.doi.org/10.7153/oam-07-30](https://doi.org/10.7153/oam-07-30)
33. Witold Majdak, Nicolae Adrian Secelean, and Laurian Suciu, Ergodic properties for operators in semi-Hilbertian spaces, *Linear and Multilinear Algebra* Vol. 61, Issue 2, pp. 139-159, 2013. <https://doi.org/10.1080/03081087.2012.667094>
34. Marek Kosiek and Laurian Suciu, Decompositions and asymptotic limit for bicontractions, *Annales Polonici Mathematici* 105.1, pp. 43-64, 2012. DOI: 10.4064/ap105-1-5
35. Laurian Suciu, Quasi-isometries in semi-Hilbertian spaces, *Linear Algebra and its Applications* Volume 430, Issues 8-9, pp. 2474-2487, 2009. <https://doi.org/10.1016/j.laa.2008.12.021>
36. Laurian Suciu and Nicolae Suciu, Asymptotic behaviours and generalized Toeplitz operators, *Journal of Mathematical Analysis and Applications* vol. 349, issue 1, pp. 280-290, 2009. <https://doi.org/10.1016/j.jmaa.2008.08.028>
37. Laurian Suciu, Maximum A-isometric part of an A-contraction and applications, *Israel Journal of Mathematics* vol. 174, pp. 419-442, 2009. <https://doi.org/10.1007/s11856-009-0121-y>

38. Laurian Suciu, Uniformly ergodic A-contractions on Hilbert spaces, *Studia Mathematica* vol. 194, pp. 1-22, 2009. DOI: 10.4064/sm194-1-1
39. Laurian Suciu and Nicolae Suciu, Ergodic conditions and spectral properties for A-contractions, *Opuscula Mathematica* Vol. 28, No. 2, pp. 195 – 216, 2008. <https://www.opuscula.agh.edu.pl/om-vol28iss2art8>
40. Laurian Suciu, Maximum subspaces related to A-contractions and quasinormal operators, *Journal of the Korean Mathematical Society* 45, No.1, pp. 205-219, 2008.
41. Laurian Suciu, Ergodic properties for regular A-contractions, *Integral Equations and Operator Theory* 56, 2, pp. 285-299, 2006. <https://doi.org/10.1007/s00020-006-1417-5>

C2 - Lucrări indexate BDI

1. Michael Lin and Laurian Suciu, Poisson's equation for mean ergodic operators, *Contemporary Mathematics* Vol. 636, pp. 141-148, 2015.
2. Laurian Suciu, Canonical decompositions induced by A-contractions, *Note di Matematica* vol. 28, issue 2, pp. 187-202, 2008. DOI :10.1285/i15900932v28n2p187
3. Laurian Suciu and Nicolae Suciu, Inequalities for strict bicontractions, *Annals of the University of Bucharest LIX*, pp. 3-15, 2010. http://fmi.unibuc.ro/ro/anale/matematica/1_2010/suciu.pdf
4. Laurian Suciu, Some invariant subspaces for A-contractions and applications, *Extracta Mathematicae* 21 (3), pp. 221-247, 2006. <https://www.eweb.unex.es/eweb/extracta/Vol-21-3/21J3Suciu.pdf>
5. Laurian Suciu and Nicolae Suciu, Harnack domination for contractions and related intertwining operators, *Acta Sci. Math. (Szeged)* 72, pp. 319-343, 2006.
6. Laurian Suciu, On the ergodic A-contractions, *Analele Univ. de Vest din Timișoara, Ser. Mat.-Inf.* 2, pp. 115-136, 2004.
7. Laurian Suciu, Orthogonal decomposition induced by generalized contractions, *Acta Sci. Math. (Szeged)* 70, pp. 751-765, 2004.
8. Laurian Suciu and Nicolae Suciu, On the asymptotic limit of a bicontraction, *Theta Series in Advanced Mathematics*, pp. 117-135, 2012.
9. Laurian Suciu and Nicolae Suciu, Selection of semispectral measures for bicontractions, *Theta Series in Advanced Mathematics*, pp. 1-21, 2010.
10. Laurian Suciu and Nicolae Suciu, Harnack ordering for pairs of commuting contractions, *Proceedings of the 6th Congress of Romanian Mathematicians, Bucharest 2007*, Editura Academiei Române, vol. 1, pp. 381-398, 2009.
11. Gilles Cassier and Laurian Suciu, Mapping theorems and similarity to contractions for classes of A-contractions, *Theta Series in Advanced Mathematics*, pp. 39-58, 2008.
12. Laurian Suciu, Block representation for A-contractions, *Theta Series in Advanced Mathematics*, pp. 201-216, 2008.
13. Laurian Suciu, Ergodic properties and saturation for A-contractions, *Theta Series in Advanced Mathematics*, pp. 225-242, 2006.

D. Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

D2- Lucrări publicate în volume de conferințe cu referenți

1. Laurian Suciu, Invertible A-contractions and applications, *Proceedings of the 9th National Conference of the Romanian Mathematical Society, Lugoj 6-May 2005*, Ed. UVT, pp. 272-290, 2005.
2. Laurian Suciu, Sur les contractions quasi-normales, *Proceedings of the National Conf. of Math. Anal. and Appl., Timișoara 2000*, pp. 395-404, 2000.

Data:

20.06.2024

Semnătura:



Prof. univ. dr. hab. LAURIAN SUCIU

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Granturi/proiecte câștigate prin competiție

1. Contract de cercetare științifică sub egida LEA Franco-Roumain Math-Mode entre le Laboratoire de Mathématiques de l'Université Paris-Sud et l'Institut de Mathématique "Simion Stoilow" de l'Académie Roumaine obținut prin competiție cu titlul : Projet de recherche en analyse fonctionnelle, 2015.
2. Contract de cercetare prin CNRS Franta la "Laboratoire Paul Painlevé", Universitatea Lille 1, 2016.
3. Some Topics in Hilbert Space Operators Research in Pairs, Centre International de Recherches Mathematiques (CIRM) Marseille, France, 2019.
4. Grant cercetare LBUS-IRG-2015-01: Titlul: Analiza Harnack operatoriala si proprietati ergodice pentru medii de operatori. Grant intern ULBS, 2015.
5. Grant cercetare LBUS-IRG-2016-02 :Titlul : Dominare de tip Shmul'yan pentru contractii pe spatii Hilbert si teoreme de dilatare pentru operatori concavi. Grant intern ULBS, 2016.
6. Grant cercetare LBUS-IRG-2017-03 : Titlul: Teoreme de lifting pentru operatori cu puteri marginite si ergodicitate. Grant intern ULBS, 2017.
7. Grant cercetare LBUS-IRG-2018-03: Titlul: Teoreme de lifting si dualul Cauchy pentru operatori marginiti pe spatii Hilbert. Grant intern ULBS, 2018.
8. Grant cercetare LBUS-IRG-2019-05 :Titlul: Descompuneri ortogonale pentru diverse clase de operatori liniari si marginiti pe spatii Hilbert. Grant intern ULBS, 2019.
9. Grant cercetare LBUS-IRG-2020-06 :Titlul: Dilatări expansive de operatori pe spații Hilbert. Grant intern ULBS, 2020.
10. Grant cercetare LBUS-IRG-2021-07 :Titlul: Extensions of operators and perturbations of the maximal function related to the intertwining expansion problem for contractions. Grant intern ULBS, 2021.
11. Grant cercetare LBUS-IRG-2022-08 :Titlul: Asymptotic properties for compressions of two-isometries and Wold decompositions. Grant intern ULBS, 2022.
12. Grant cercetare LBUS-IRG-2023 :Titlul: Brownian extensions and liftings for bounded linear operators on Hilbert spaces. Grant intern ULBS, 2023.

Data: 20.06.2024

Semnătura:

