**LISTA DE LUCRĂRI ȘTIINȚIFICE**

**Prof.univ.dr. Sorin NĂDĂBAN**

1. **Teza de doctorat**

 *„Teorie spectrală pe spaţii Hilbert factor”*, susţinută în anul 2000 la Universitatea de Vest din Timișoara, sub coordonarea domnului profesor Dumitru Gașpar.

1. **Brevete de invenţie**
2. **Cărţi**
3. **Apărute în edituri recunoscute CNCS**
4. **S. Nădăban**, *Matematici aplicate în economie*, Editia a II-a, Editura Mirton, Timişoara, 2012, 180 pag., ISBN: 978-973-52-1275-9.
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8. **S. Nădăban**, A. Şandru, *Algoritmica grafurilor – Sinteze de curs şi aplicaţii,* Editura Mirton, Timişoara, 2007, 265 pag., ISBN: 978-973-52-0249-1.
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14. **Coordonarea unor volume colective publicate în edituri recunoscute CNCS**
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16. I. Dzitac, **S. Nădăban** (2022). Fuzzy Logic and Soft Computing–Dedicated to the Centenary of the Birth of Lotfi A. Zadeh (1921-2017). (This book is a reprint of the Special Issue [**Fuzzy Logic and Soft Computing – Dedicated to the Centenary of the Birth of Lotfi A. Zadeh (1921-2017)**](https://www.mdpi.com/journal/mathematics/special_issues/fuzzy_logic_soft_computing_dedicated_centenary_birth_Lotfi_A_Zadeh) that was published in [***Mathematics***](https://www.mdpi.com/journal/mathematics)) ISBN 978-3-0365-5587-4 (Hbk); ISBN 978-3-0365-5588-1 (PDF)
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21. **S. Nădăban**, C. Stoica, *Proceedings of the International Symposium „Research and Education in an Innovation Era”* - *Section Mathematics and Computer Science,* Second Edition, Arad 20-21 November 2008, Editura Universităţii „Aurel Vlaicu”, Arad, 244 pag., ISSN 2065 2569.
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**I. Articole ştiinţifice publicate în reviste de specialitate cotate ISI**

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2. **S. Nădăban,** *Fuzzy Continuous Mappings on Fuzzy F-Spaces*,  Mathematics **2022**, 10, 3746. https://doi.org/10.3390/math10203746
3. T. Binzar, F. Pater, **S. Nădăban**, *Fixed-Point Theorems in Fuzzy Normed Linear Spaces for Contractive Mappings with Applications to Dynamic-Programming*, Symmetry, 14,**2022**, Art. Nr. 1966. <https://doi.org/10.3390/sym14101966>
4. **S. Nădăban***, Fuzzy Logic and Soft Computing—Dedicated to the Centenary of the Birth of Lotfi A. Zadeh (1921–2017)*, Mathematics, 10, **2022**, Art. Nr. 3216. https://doi.org/10.3390/math10173216
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11. T. Binzar, F. Pater, **S. Nădăban**, *A study of boundedness in fuzzy normed linear spaces*, Symmetry- Basel, 11(7), Article number: 923, 2019.  <https://doi.org/10.3390/sym11070923>
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19. **S. Nădăban**, I. Dzitac, *Atomic decompositions of fuzzy normed linear spaces for wavelet applications*, Informatica, **25 (2014)**, 643-662.
20. A. Palcu, **S. Nădăban**, A. Şandru, *Some on the Boson Mass Spectrum in a 3-3-1 Gauge Model,* Romanian Journal of Physics, **56 (2011)**, 673-681.
21. **ISI Proceedings**
22. **S. Nădăban,** D. Deac (2023). *Nonstandard Fuzzy Sets: A General View*. In: Dzitac, S., Dzitac, D., Filip, F.G., Kacprzyk, J., Manolescu, MJ., Oros, H. (eds) Intelligent Methods Systems and Applications in Computing, Communications and Control. ICCCC 2022. Advances in Intelligent Systems and Computing, vol 1435. 208-218, Springer, Cham. https://doi.org/10.1007/978-3-031-16684-6\_17
23. A. Szabo, T. Bînzar**, S. Nădăban**, F. Pater, *Some properties of fuzzy bounded sets in fuzzy normed linear spaces*, Proceedings of the International Conference on Numerical Analysis and Applied Mathematics (ICNAAM-2017), Book Series: AIP Conference Proceedings, Volume 1978, Article Number: UNSP 390009-1. DOI: 10.1063/1.5043993
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25. **S. Nădăban**, S. Dzitac, I. Dzitac, *Fuzzy TOPSIS: A general view,* Promoting Busines Analytics ond Quantitive Management of Technology: 4th International Conference on Information Technology and Quantitative Management (ITQM 2014), Procedia Computer Science, **91 (2016)**, 823-831. DOI 10.1016/j.procs.2016.07088
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27. **S. Nădăban**, I. Dzitac,  [*Special Types of Fuzzy Relations*](http://www.sciencedirect.com/science/article/pii/S1877050914004785)*,* Information Technology and Quantitative Management (ITQM 2014), [Procedia Computer Science,](http://www.sciencedirect.com/science/journal/18770509) **31C (2014)**, 552-557.
28. **Articole ştiinţifice publicate în reviste de specialitate indexate în baze de date internaţionale**
29. **S. Nădăban** , *Fuzzy quasi-b-metric spaces,* Annals of West University of Timisoara - Mathematics and Computer Science, vol.58, no.2, 2022, pp.38-48. <https://doi.org/10.2478/awutm-2022-0015>
30. L. Popa, L. Sida, **S. Nădăban,** [*Matrix Representations of Fuzzy Quaternion Numbers*](http://www.uav.ro/stiinte_exacte/journal/index.php/TAMCS/article/view/160)*,* Theory and Applications of Mathematics & Computer Science, **1(1)(2017)**, 59-71.
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34. **S. Nădăban***, Isomorphism Theorems for Quotient Hilbert Spaces,* Analele Universitǎţii de Vest din Timişoara, Seria Matematică-Informatică, **45(2) (2007)**, 93-98.
35. **S. Nădăban**, *On the Spectrum of a Morphism in Quotient Hilbert Spaces,* Surveys in Mathematics and its Applications, **1 (2006)**, 13-22.
36. **S. Nădăban**, *A Special Subcategory in the Category of Quotient Banach Spaces,* Analele Universitǎţii de Vest din Timişoara, Seria Matematică-Informatică, **43(1) (2005)**, 73-82.
37. **S. Nădăban**, *Fredholm Pairs Associated to Fredholm Complexes,* Proceedings of the Scientific Communications Meeting of „Aurel Vlaicu” University, Third Edition, Arad, **14A (1996)**, 99-103.
38. **Publicaţii in extenso, apărute în volumele unor conferinţe internaţionale de specialitate**
39. L. Popa, L. Sida, **S. Nădăban** ,I. Dzitac***,*** *Why Need for Fuzzy Logic in High School?,*Proceedings of the International Symposium „Research and Education in an Innovation Era”, 7th Edition, Arad, May 17th-20th, 2018, pag. 100-104.
40. L.Sida, L. Popa, **S. Nădăban,** On Fuzzy quaternion numbers, Proceedings of the International Symposium „Research and Education in an Innovation Era”, 6th Edition, Arad 8-10 December 2016, pag. 116-119.
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42. A. Palcu, **S. Nădăban**, A. Şandru, M. Tomescu, *Is the global symmetry Le-Lμ-LT suitable for the neutrino sector in gauge models?,* Proceedings of the International Symposium „Research and Education in an Innovation Era”, 4th Edition, Arad 8-9 November **2012**, pag.97-104.
43. **S. Nădăban**, A. Palcu, M. Tomescu, *On Fuzzy Banach Spaces,* Proceedings of the International Symposium „Research and Education in an Innovation Era”, Third Edition, Arad 11-12 November **2010**, 133-138.
44. **S. Nădăban**, A. Şandru, C. Fifor, *Sequences in Ordered Fields,* Proceedings of the International Symposium „Research and Education in an Innovation Era”, Third Edition, Arad 11-12 November **2010**, 230-236.
45. M. Tomescu, **S. Nădăban**, A. Palcu, *Intelligent Control System,* Proceedings of the International Symposium „Research and Education in an Innovation Era”, Third Edition, Arad 11-12 November **2010**, 89-97.
46. A. Palcu, **S. Nădăban**, A. Şandru, *SU(4) – a suitable candidate for the extension of the Standard Model,* Proceedings of the International Symposium „Research and Education in an Innovation Era”, Third Edition, Arad 11-12 November **2010**, 114-123.
47. **S. Nădăban**, *Duality in Quotient Hilbert Spaces*, Proceedings of the International Symposium „Research and Education in an Innovation Era”, Second Edition, Arad 20-21 November **2008**, 101-106.
48. **S. Nădăban**, *Paraclosed Morphisms in Quotient Hilbert Spaces,* Proceedings of the International Symposium „Research and Education in an Innovation Era”, Arad 16-18 November **2006**, 74-81.
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55. **S. Nădăban,** *Spectrul operatorilor în spaţii Banach factor,* Studia Universitatis „Vasile Goldiş”, seria A, **6 (1996)**, 250-255.
56. **S. Nădăban**, M. Nagy, *Joint Spectra for a Family of Paraclosed Morphisms on Quotient Banach Spaces,* Bulletins for Applied Mathematics, 1285/**1996**, Technical University Budapest, pag. 461-468.
57. M. Nagy, **S. Nădăban**, *A Statistical Point of View on the Repeatability of Heat Storage Measurements,* Bulletins for Applied Mathematics, 1284/**1996**, Technical University Budapest, pag. 453-460.
58. **Participări la conferinţe naţionale și internaţionale**
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		3. L. Popa, L. Sida, **S. Nădăban** ,I. Dzitac**,** *Some Remarks on Fuzzy Hilbert Space,* International Symposium „Research and Education in an Innovation Era”, 8th Edition, Arad, May 23th-25th, 2019.
		4. L. Popa, L. Sida, **S. Nădăban** ,I. Dzitac***,*** *Why Need for Fuzzy Logic in High School?,*International Symposium „Research and Education in an Innovation Era”, 7th Edition, Arad, May 17th-20th.
		5. A. Szabo, T. Bînzar**, S. Nădăban**, F. Pater, *Some properties of fuzzy bounded sets in fuzzy normed linear spaces,* International Conference on Numerical Analysis and Applied Mathematics (ICNAAM-2017), SEP 25-20, 2017, Greece.
		6. L.Sida, L. Popa, **S. Nădăban,** On Fuzzy quaternion numbers, International Symposium „Research and Education in an Innovation Era”, 6th Edition, Arad 8-10 December 2016.
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		14. C. Şchiopu, E.Şișu, V. Udrescu, **S. Nădăban**, C. Fifor, A. Zamfir, *Sistem informatic de operare pentru interpretarea spectrelor de masă a gangliozidelor din creierul uman,* Conferinţa Diaspora în Cercetarea Ştiinţifica Românească, București 17-19 septembrie 2008.
		15. C. Şchiopu, C. Mosoarca, E.Şișu, C. Fifor, **S. Nădăban**, Ž. Vukelic, A. Zamfir, *Optimization of novel in fragmentation techniques for polysialylated glycolipids,* The 5th Conference on Condensed Matter Physics, Timișoara 16-18 July 2008.
		16. C. Şchiopu, E.Şișu, **S. Nădăban**, C. Fifor, Ž. Vukelic, A. Zamfir, *Computer software for the interpretation of brain ganglioside mass spectra,* International Symposium „Research and Education in an Innovation Era”, Second Edition, Arad 20-21 November 2008.
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