Lect. dr. Sida Lavinia
Departamentul de matematică-informatică.
Facultatea de Ştiinţe Exacte

L I S T A
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Câmpuri distribuţii stochastice multivariate periodic corelate, Universitatea de Vest din Timişoara, Conducător Ştiinţific: Prof. Univ. Dr. Dumitru Gaşpar – susţinută în 28.04.2012 la Universitatea de Vest din Timişoara.

B. Cărţi si capitole în cărţi

1. G. MOT, L. GAGA, T. BULZAN, L. POPA, L. SIDA, G. ILA, *Matematici superioare pentru ingineri şi economişti vol. I*, Ed. Viaţa arădeană, Arad, 2000, 256 p, ISBN: 973–9454–38-4
2. G. MOT, L. GAGA, T. BULZAN, L. POPA, L. SIDA, G. ILA, *Matematici superioare pentru ingineri şi economişti vol. II*, Ed. Viaţa arădeană, Arad, 2000, 270 p, ISBN: 973–9454–37-2
3. G. MOT, L. GAGA, T. BULZAN, L. POPA, L. SIDA, *Exerciţii şi probleme de matematici superioare pentru profilurile tehnic şi economic*, Ed. Viaţa arădeană, Arad, 2003, 630 p, ISBN: 973–86–288-2-2

C. Lucrări indexate ISI/BDI

1. P. Gaşpar, L. Sida, *Periodically correlated multivariate second order random distribution fields and stationary cross correlatedness*, Journal of Functional Analysis, Volume 267, Issue 7, 1 October 2014, Pages 2253-2263, ISSN 0022-1236, http://dx.doi.org/10.1016/j.jfa.2014.07.019.

2. P. Gaşpar, S. Nădăban, L. Sida, *On vector valued periodic distributions*, Theory and Applications of Mathematics & Computer Science, **2(1) (2012)**, 1-9. [Zbl. 1288.60016]

3. Popa, L., Sida, L., Nădăban,S *Matrix Representations of Fuzzy Quaternion Numbers*, Theory and Applications of Mathematics & Computer Science, 7(1) (2017), 59-71, ISSN 2247–6202.

4. L. POPA, L. SIDA., *Fuzzy Inner Product Space: Literature Review and a New Approach,* Mathematics, Vol. 9, nr. 7, 2021, doi:10.3390/math9070765

5. L Popa, S Nadaban, L Sida, D Deac, *Expected Value of a Picture Fuzzy Number*, Theory and Applications of Mathematics & Computer Science XX (2026) 2–5

D. Lucrări publicate în reviste şi volume de conferinţe cu referenţi (neindexate)

- Reviste

1. C. STOICA, L. SIDA, *Osculating convexity of first order for plane curves*, Stiintific

Buletin of the Politehnica University of Timisoara, Series Mathematics-Physics, Tom 47 (61), Fascicle 1 (2002) 45 – 52, ISSN 1224-6069; [MR1947150(2003k:52002)], [Zbl 1052.53006]

- **lucrări in volume de conferinţe**

1. C. STOICA, L. SIDA, *Osculating convexity of superior order for plane curves*, Bulletins for Applied & Computer Mathematics, BAM1990-C/2003, PAMM Pannonian Applied Mathematical Meetings Center at the Technical University of Budapest (2002) 111 – 120, ISSN 0133-3526; [Zbl 1052.53006]
2. L. SIDA, *Rectangular osculating convexity of first order for plane curves*, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2002), 136 – 141, ISSN 1582-344X
3. L. POPA, L. SIDA., *Applications of N-Limits in Classical analisis*, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle 2 Mathematics- Computer Science (2002), 213 – 216, ISSN 1582-344X
4. L. POPA, A. ŞANDRU, L. SIDA, *Transportul de caldură prin conducţie*, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2004) 188 – 196, ISSN 1582-344X
5. L. SIDA, Prediction of Stochastic Processes, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2008), 136 – 140, ISSN 2065-2569.
6. Gaşpar, P., Sida, L., *The Fourier transform of a vector valued T – periodic distributions*, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2012), 7 – 13, ISSN 2065 2569.
7. Sida, L., Gaşpar, P., *The T - convolution product*, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2014), 77 – 83, ISSN 206 2569.
8. Sida, L., Popa, L., Nădăban,S., *On fuzzy quaternion numbers*, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2016), 149 – 152, ISSN 20652569.
9. Popa L., Sida L., Nădăban S., Dzitac I., Why Need for Fuzzy Logic in High School, Annals of the Aurel Vlaicu University of Arad, Series Mathematics, Fascicle Mathematics- Computer Science (2018), 100 – 104, ISSN 20652569
10. L. Sida, L. Popa, S. Nădăban and I. Dziţac, *Some Remarks on Fuzzy Hilbert Spaces*, International Symposium Research and Education in Innovation Era ISREIE'19 Arad, Romania, May 23-25, 2019.

E. Brevete obţinute în întreaga activitate -

F. Contracte de cercetare

Data: **Semnătura:**

Frida

01.09.2026