Associate Professor Ph.D. Lorena Camelia POPA

LIST OF PUBLICATIONS

A) PhD: The Study of multivariate distribution stochastic fields, West University of Timisoara, 2010, Scientific coordinator: Professor Ph. D. Gașpar Dumitru

Books:

1. G. MOŢ, L. POPA**,** Algebră liniară (volumul 1), Editura Mirton , Timişoara, 1999, ISBN 973-578-899-3(80 pag)
2. G. MOŢ, L. POPA, Ecuaţii diferenţiale (volumul 2), Editura Mirton , Timişoara, 1999, ISBN 973-578-900-0(66 pag)
3. G. MOŢ, L. GAGA, T. BULZAN, L. POPA, L. SIDA, G. ILA, Matematici superioare pentru ingineri şi economişti(2 volume), Editura Viaţa arădeană, Arad, 2000, ISBN 973-9454-36-4 (526 pag)
4. G. MOŢ, L. GAGA, L. POPA, L. SIDA, T. BULZAN, Exerciţii şi probleme de matematici superioare pentru profilurile tehnic şi economic, Editura Viaţa arădeană, Arad, 2003, ISBN 973-86288-2-2 (630 pag)
5. G. MOŢ, L. POPA, Algebră superioară pentru profilurile tehnic şi economic-Teorie şi aplicaţii, Editura Universităţii "Aurel Vlaicu", 2010, ISBN 978-973-752-509-3 (132 pag)
6. G. MOŢ, L. POPA, Algebră superioară pentru profilurile tehnic şi economic-Teorie şi aplicaţii, Editura Universităţii "Aurel Vlaicu", Ediția a II- a, 2013 ISBN 978-973-752-509-3 (132 pag)
7. G. MOȚ, L., POPA, Algebră liniară, Geometrie analitică și diferențială, Editura Universităţii "Aurel Vlaicu", Arad, 2014, ISBN 978-973-752-715-8 (160 pag)
8. D. HERLO, L. POPA, O. POTOCEAN, Didactica matematicii pentru învățământul gimnazial, Editura Pro Universitaria, București, 2017, ISBN 978-606-26-0809-5 (284 pag)
9. L.POPA, Geometrie -Teorie și probleme, Editura Mirton, Timișoara, 2020, ISBN 978-973-52-1947-5, (202 pag)

Scientific Papers

Scientific papers published in journals/volumes indexed ISI/Web of Science

1. P. GAȘPAR, L.POPA, *Stochastic Mappings and Random Distribution Fields II. Stationarity*., Mediterranean Journal of Mathematics, vol 13, issue 4, pp. 2229-2252, 2016.
2. P.GAȘPAR, L.POPA, *Stochastic Mappings and Random Distribution Fields III. Module propagators and uniformly bounded linear stationarity*, Journal of Mathematical Analysis and Applications, vol 435(2) pp.1229-1240, 2016.
3. P.GAȘPAR, L.POPA, *Stochastic Mappings and Random Distribution Fields : A correlation approach,* Monatshefte fur Mathematik, vol 188, pp.87-107, 2019.

4. L.POPA, L.SIDA, *Fuzzy Inner Product Space: Literature Review and a New Approach, Mathematics* , 9, 765, 2021.
5. L. POPA, *A new ranking method for trapezoidal intuitionistic fuzzy numbers and itsapplication to multi-criteria decision making, International Journal of Computers Communications & Control*, 18(2), 5118, 2023.
6. L.POPA, *Centroid-Induced Ranking of Triangular Picture Fuzzy Numbers and Applications in Decision-Making, Symmetry,* 16 (11), 1492, 2024.

Scientific papers published/accepted for publication in journals indexed BDI

1. L. POPA, *A characterization of positive definite operator distributions*, Conferinţa Naţională de Analiză matematică şi Aplicaţii, Univ.deVest Timişoara, seria Matematică - Informatică, XLV, 2 (2007), 109-116.
2. L.POPA, L. SIDA, S. NĂDĂBAN, *Matrix representations of fuzzy quaternion numbers*, Theory and Applications of Mathematics & Computer Science, 7(1), 59-71, 2017.
3. L. POPA, S. NĂDĂBAN, L. SIDA, D. DEAC, Expected Value of a Picture Fuzzy Number, Theory and Applications of Mathematics & Computer Science, 10 (1) (2025) 37–45.

Scientific Papers in Proceeding of International Conferences

1. L. POPA, L. SIDA*, Applications of N-limits in classical analisis*, Proceedings of the Scientific Communications Meeting of „Aurel Vlaicu" University, 28-30 nov 2002, Fascicle 2, ISSN1582-344X, pag.213-216.
2. G. MOŢ, L. POPA, *Aplicaţii ale algebrei liniare în modelarea substanţelor şi reacţiilor chimice*, Proceedings of the Scientific Communications Meeting of „Aurel Vlaicu" University of Arad, 28-30 nov 2002, Fascicle 2, ISSN 1582-344, pag. 237-240.
3. G. MOŢ, L. POPA, *Wiews upon liniar spaces of cuaternions,* Proceedings of the Scientific Communications Meeting of „Aurel Vlaicu" University of Arad, 28-30 nov 2002, Fascicle 2, ISSN 1582-344X, pag. 229-236.
4. G. GHERMAN., G. MOŢ, N. CRISTEA, L. POPA, *Vieuws on the computation of the centroid of the plane,spacial orientedsurfaces*, Bulletins for Applied & Computer Matematics, BAM-2076A(CIV)/2003, ISSN 0133-3526, pag.277-284.
5. L. POPA, A. ŞANDRU, L. SIDA, *Transportul de căldură prin conducţie*, Proceedings of the Scientific Communications Meeting of „Aurel Vlaicu" University of Arad, 28-30 nov 2004, ISSN 1582-344, pag.188-196.
6. L. POPA**,** *On vector valued distributions*, Research and Education in Innovation Era, „Aurel Vlaicu" University of Arad, 16-18 nov 2006, ISBN 978-973-52-0108-1, pag.112-117.
7. G. GHERMAN., L. POPA, A. SANDRU, *The improvement of the calculation precision of the value of the critical buckling force using the finites differences method*, Proc. Of PAMM Conference, Balatonalmady BAM-CXIII/2008/2009 nr.2382-2398, pag.62-67.
8. P. GASPAR, L. POPA, *On stationary multivariate random fields distribution*, Proceedings of the International Symposium "Research and Education in Innovation Era",Second Edition, „Aurel Vlaicu" University of Arad, 20-21 nov 2008, Section Matematics and Computer Science, Ed. Mirton Timişoara, pag.62-69.

9. P. GASPAR, L. POPA, *On tensorial products of topological spaces*, Proceedings of the International Symposium "Research and Education in Innovation Era",3th Edition, „Aurel Vlaicu" University of Arad, 11-12 noiembrie 2010, Section Mathematics and Computer Science, Editura Universităţii Aurel Vlaicu din Arad, pag.98-102.
10. L. POPA, A.F. HORVAT, *On sections of quadrics with center*, Proceedings of the International Symposium "Research and Education in Innovation Era",4th Edition, „Aurel Vlaicu" University of Arad, 8-9 nov 2012, Section Mathematics and Computer Science, Editura Universităţii Aurel Vlaicu din Arad, pag. 84-89.
11. G. MOȚ, L. POPA, *On quaternions*, Proceedings of the International Symposium "Research and Education in Innovation Era",5th Edition, Universitatea Aurel Vlaicu din Arad, 5-7 noiembrie 2014, Section Mathematics and Computer Science, Editura Universităţii Aurel Vlaicu din Arad, pag. 70-77.
12. P. GAȘPAR, L. POPA, *Series representations for random distribution fields*, Proceedings of the International Symposium "Research and Education in Innovation Era",5th Edition, Universitatea Aurel Vlaicu din Arad, 5-7 noiembrie 2014, Section Mathematics and Computer Science, Editura Universităţii Aurel Vlaicu din Arad, pag. 63-70.
13. L. SIDA, L. POPA, S. NĂDĂBAN, *On fuzzy quaternion numbers*, Proceedings of the International Symposium "Research and Education in Innovation Era",6th Edition, Universitatea Aurel Vlaicu din Arad, 8-10 decembrie 2016, Section Mathematics and Computer Science, Editura Universităţii Aurel Vlaicu din Arad, pag. 116-119.
14. 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 Innovation Era",7th Edition, „Aurel Vlaicu" University of Arad, 17-20 may, 2018, Section Mathematics and Computer Science, Editura Universităţii Aurel Vlaicu din Arad, pag. 100-104.

Scientific Contributions to International Conferences

1. P. GASPAR, D. GASPAR, N. GRINDEANU, L. POPA, *Operator valued distribution and random fields*, 22th Conference in Operator Theory, Timişoara, 4 July 2008.
2. P. GASPAR, L. POPA *The Shift of a Multivalued Distribution*, IWOTA, Williamsburg, 16 nov, 2008.
3. P. GAȘPAR.,L. POPA .,L. SIDA, *On multivariate random fields distributions*, The 24-th International Conference on Operator Theory**,** Timişoara 2012**.**
4. G. Moț, L. Popa Observatii metodologice privind relatiile metrice intr-un triunghi dreptunghic, International Symposium Research and Education in Innovation Era ISREIE'14, „Aurel Vlaicu" University of Arad, 5-7 noiembrie, 2014.
5. 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 „Aurel Vlaicu" University of Arad, May 23-25, 2019.

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