**LISTA LUCRĂRILOR**

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**Cărţi**

1. *Breviar şi probleme propuse de geometrie analitică*, Otilia Lungu, Ed. Edusoft, Bacau, 2007, ISBN 978-973-8934-66-5.

2.*Algebră liniară – Culegere de Probleme* Otilia Lungu , Manuela Gîrţu, Ed. Edusoft, Bacau, 2007 ISBN 978-973-8934-78-8.

3. *Capitole de geometrie diferenţială*, Otilia Lungu, Alina-Mihaela Patriciu, Ed. Alma Mater, Bacau, 2011, ISBN 978-606-527-168-5.

4. *Curs de geometrie diferenţială*, Otilia Lungu, Ed. Alma Mater, Bacău, 2011 ISBN 978-606-527-166-1.

5. *Teoria probabilităţilor şi statistică matematică -Note de curs,* Otilia Lungu, Ed. Docucenter, Bacău, 2013, ISBN: 978-606-8454-45-0.

6. *Matematici speciale*, Otilia Lungu,Ed. Docucenter, Bacău, 2013, ISBN: 978-606-8454-32-0.

7*. Curs de matematici speciale cu aplicaţii*, Otilia Lungu,Ed Alma Mater, Bacău, 2014,

ISBN 978-606-527-392-4 .

8. *Elemente de geometrie diferenţială,* Otilia Lungu, Valer Nimineţ, Ed. Smart Academic, Bacău, 2015, ISBN 978-606-93855-3-1

9. *Calcul operaţional-teorie şi aplicaţii,*Otilia Lungu, Ed. Alma Mater, Bacău, 2016, ISBN, 978-606-527-531-7

10. *Matematici superioare. Culegere de probleme*., Ardeleanu Roxana, Lungu Otilia, Ed. Alma Mater, Bacău, 2017, ISBN 978-606-527-571-3.

11. *Capitole de matematici scolare*, Lungu Otilia , Ed. Smart Academic, Bacău, 2018, ISBN 978-606-8947-20-4

12. *Probleme de geometrie analitica-caiet de seminar*, Lungu Otilia , Ed. Smart Academic, Bacău, 2018, ISBN 978-606-8947-19-8

13.*Curs de initiere in teoria probabilitatilor si statistica matematica,* Lungu Otilia , Ed. Smart Academic, Bacău, 2018, ISBN 978-606-8947-18-1.

14. *Matematici speciale. Caiet de seminar.* Lungu Otilia , Ed. Smart Academic, Bacău, 2019, ISBN 978-606-9063-10-1.

15.*Algebra liniara. Geometrie analitica. Geometrie diferentiala.Caiet de seminar pentru studentii Facultatii de Inginerie.* Lungu Otilia , Ed. Smart Academic, Bacău, 2019, ISBN 978-606-9063-09-5.

**Articole**

1.“*Transformations of nonlinear connections in a Finsler space*”, Otilia Lungu, Proceedings of International Conference on Mathematics and Informatics, ICMI45, Bacǎu, România, (2006), 139-146, Studii şi Cercetări Ştiinţifice, seria Matematica 16(2006), Supliment, ISSN 1224-2519;

*2”How IWA 2 helps to implement a quality management system in Bacău”* , I. Caraman, G. Lazar, R. Bucuroiu,O. Lungu,M. Stamate, ICQME (2008) ,Budva, Muntenegru,209-213, ISBN 978-9940-527-037;

3. “ *Using IWA 2 to Certify a Quality Management System in Bacau University”*, Lazar G., Bucuroiu R., Caraman I., *Lungu O*., Stamate M., Proceedings of the 5-th International Seminar on the Quality Management in Higher Education, 125-130, Tulcea, (2008).

4.“ *Some curvature properties in Randers spaces*” , Otilia Lungu, Scientific Studies and Research ,Series Mathematics and Informatics ,Vol. 19 (2009), No. 2,pag.301-308 ISSN 2067-3566.

5. “*Some Deformations of a Quartic Finsler Metric*”, Otilia Lungu -Sesiune de Comunicări Ştiinţifice a Facultăţii de Matematică, Universitatea “Al.I. Cuza”, Iaşi, oct. (2009).

6. *“The geometrization of Lagrange Dynamical Systems”*Valer Nimineţ and Otilia Lungu, Scientific Studies and Research ,Series Mathematics and Informatics ,Vol. 20 (2010), No. 1, pag.179-184, ISSN 2067-3566.

7. “*Some properties of a R-Randers quartic space* Otilia Lungu and Valer Nimineţ ,Scientific Studies and Research ,Series Mathematics and Informatics ,Vol. 20 (2010), No. 1, pag 133-140, ISSN 2067-3566.

8. „*Curburi în spaţii Finsler”,* Otilia Lungu, Studia Universitatis, , seria Ştiinţe exacte şi economice, Nr \_2 (32), (2010) ,ISSN 1857-2073, Republica Moldova.

9. *„Câteva proprietăţi ale unui spaţiu Randers cuartic”,* Otilia Lungu, Studia Universitatis, seria Ştiinţe exacte şi economice, Nr \_2 (32), (2010) ,ISSN 1857-2073, Republica Moldova.

10. “ *A Deformation of a Quartic Cartan Metric”*, Otilia Lungu, Scientific Studies and Research ,Series Mathematics and Informatics ,Vol. 21 (2011), No. 1, 121-126 ISSN 2067-3566.

11**.***”General Randers Mechanical Systems”*, Valer Nimineţ and Otilia Lungu,Scientific Studies and Research ,Series Mathematics and Informatics ,Vol. 22 (2012), No. 1, pag.25-30 ISSN 2067-3566.

12. “*On the  space locally Minkowski”* , Valer Nimineţ and Otilia Lungu, Scientific Studies and Research ,Series Mathematics and Informatics ,Vol. 22 (2012), No. 1, pag.121-126, ISSN 2067-3566.

13. *“Ingarden spaces with a special nonlinear connection”*, Otilia Lungu and Valer Nimineţ, Scientific Studies and Research, series Mathematics and Informatics, vol 22(2012) (nr. 2), pag. 47-54, ISSN\* 2067-3566

14. *„A generalization of locally Minkowski GL- space”,* Valer Nimineţ and Otilia Lungu, Scientific Studies and Research ,Series Mathematics and Informatics ,Vol. 22 (2012), No. 2, pag.95-90, ISSN 2067-3566.

15. *„On stability of the Mechanical Lagrangian Systems”,* Valer Nimineţ and Otilia Lungu, Broad Research in Accounting, Negotiation and Distribution, 2012, vol. 3 (nr.3), pag. 41-45, ISSN 2067-8177.

16. „*A short description of electromagnetism using the Finsler Geometry”,* Otilia Lungu and Valer Nimineţ, Broad Research in Accounting, Negotiation and Distribution, (2012), vol. 3 (nr.3), pag. 46-53, ISSN 2067-8177

17. *“R-Mechanical Systems”,* Otilia Lungu, Scientific Studies and Research ,Series Mathematics and Informatics ,Vol. 23 (2013), No. 1, 57-62, ISSN 2067-3566.

18. *“On special Ingarden Mechanical System”,* Otilia Lungu and Valer Nimineţ, International Journal of Geometry, vol.2 (2013), no.2, 37-45, ISSN 2247-9880.

19. *On conformal transformation of a quartic Finsler Space,* Otilia Lungu and Valer Nimineţ, Scientific Studies and Research, series Mathematics and Informatics, vol 24(2014) (nr. 1), pag. 43-47, ISSN\* 2067-3566 .

20.*The energy of a special Lagrangian mechanical*  *system* , Valer Nimineţ and Otilia Lungu, Plumee, vol.3, nr.1 (2014), ISSN: 2343-9092.

21. *The electromagnetism in the theory of a special Ingarden mechanical system, ”,* Otilia Lungu and Valer Nimineţ, Plumee, vol.3, nr.1 (2014), ISSN: 2343-9092.

22. *Ingarden mechanical systems with special external forces*, Otilia Lungu and Valer Nimineţ, Analele ştiinţifice ale Universităţii „Ovidius”, Constanţa, (2015), vol 23, nr2, 161-171 ISSN\* 1224-1784.

23. *Rheonomic General Randers Mechanical Systems*, *,* Otilia Lungu and Valer Nimineţ, Scientific Studies and Research, series Mathematics and Informatics, vol.25 (2015) nr1. , pag. 191-196, , ISSN\* 2067-3566 .

24. *Rheonomic Ingarden Spaces*, Otilia Lungu, Scientific Studies and Research, series Mathematics and Informatics, vol.25 (2015)nr.1 , pag. 173-180, , ISSN\* 2067-3566 .

25. *Finslerian Mechanical Systems in Randers Spaces,* Otilia Lungu, Valer Nimineţ, Proceeding ISI Smart (2014): International Conference on Social Media in Academia Research and Teaching ISSN 978-88-7587-712-5, 201 435-442.

26. *Finslerian Mechanical Systems in Conformal Finsler Spaces,* Otilia Lungu, Scientific Studies and Research, series Mathematics and Informatics, vol.26 (2016)nr.1 , pag. 39-46, , ISSN\* 2067-3566 .

27. *Finslerian Mechanical Systems in Conformal Finsler Spaces,* Otilia Lungu, Scientific Studies and Research, series Mathematics and Informatics, vol.26 (2017)nr.1 , pag. 39-46, , ISSN\* 2067-3566