

## LISTA DE LUCRĂRI

### A. LISTA LUCRĂRILOR CELE MAI RELEVANTE PENTRU REALIZĂRILE PROFESIONALE PROPRII CARE SUNT INCLUSE ÎN FORMAT ELECTRONIC ÎN DOSAR

1. **Vîlcu A.D.**, Vîlcu G.E., Some characterizations of the quasi-sum production models with proportional marginal rate of substitution, *Comptes Rendus Mathematique*, Volume 353 (2015), Issue 12, Pages 1129-1133.  
<http://www.sciencedirect.com/science/article/pii/S1631073X15002459>
2. **Vîlcu A.D.**, Vîlcu G.E., *Statistical manifolds with almost quaternionic structures and quaternionic Kaehler-like statistical submersions*, *Entropy*, vol. 17 (2015), No. 9, 6213-6228.  
<http://www.mdpi.com/1099-4300/17/9/6213>
3. **Vîlcu A.D.**, Vîlcu G.E., *On Homogeneous Production Functions with Proportional Marginal Rate of Substitution*, *Mathematical Problems in Engineering*, Volume 2013, Article ID 732643, 5 pp.  
<http://www.hindawi.com/42731659/>
4. **Vîlcu A.D.**, *On the orientation of the earth's polar axis of the inertia*, *Romanian Astronomical Journal*, Vol. 23 (2013), No. 1, 25-34.  
<http://www.astro.ro/~roaj/2013/03-cm-A.D.Vilcu.pdf>
5. Mihăilă I., **Vîlcu A.D.**, *On the value of the dynamical flattening of the Earth*, *Romanian Astronomical Journal*, Vol. 22 (2012), 41-54.  
<http://www.astro.ro/~roaj/2012/04-cm-Mihaila-Vilcu.pdf>
6. **Vîlcu A.D.**, *Geodesic Effect Near an Elliptical Orbit*, *Journal of Applied Mathematics*, Volume 2012 (2012), Article ID 240459, 8 pages, doi: 10.1155/2012/240459.  
<http://www.hindawi.com/journals/jam/2012/240459/>
7. **Vîlcu A.D.**, Vîlcu G.E., *On some geometric properties of the generalized CES production functions*, *Applied Mathematics and Computation*, 218 (2011), 124-129.  
<http://www.sciencedirect.com/science/article/pii/S0096300311007314>

### B. TEZA DE DOCTORAT

1. *Contribuții la studiul rotației Pământului*, Universitatea din București, 2011.

### C. CĂRȚI ȘI CAPITOLE ÎN CĂRȚI

1. **Vîlcu, A.D.**, Vîlcu, G.E., *Problems in Mathematical Analysis*, vol. I, LAP Saarbrücken, Germany, 2015, ISBN: 978-3-659-76974-0, 212 pg.  
<https://www.lap-publishing.com/catalog/details//store/ru/book/978-3-659-76974-0/problems-in-mathematical-analysis,-volume-i>



2. **Vîlcu, A.D., Vîlcu, G.E.,** *Problems in Mathematical Analysis*, vol. II, LAP Saarbrücken, Germany, 2015, ISBN: 978-3-659-77684-7, 212 pg.  
<https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-659-77684-7/problems-in-mathematical-analysis,-volume-ii>
3. **Vîlcu, A.D., Vîlcu, G.E.,** *Problems in Linear Algebra*, LAP Saarbrücken, Germany, 2014, ISBN: 978-3-659-58419-0, 176 pg.  
<https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-659-58419-0/problems-in-linear-algebra>
4. **Vîlcu, A.D., Vîlcu, G.E.,** *Geometrie analitică și vectorială - teorie și probleme*, Editura Printech, 2004, ISBN: 973-718-040-2, 308 pg.
5. **Vîlcu, A.D., Vîlcu, G.E.,** *Probleme de analiză matematică*, Editura Printech, 2009, ISBN: 978-606-521-216-9, 402 pg.
6. **Vîlcu, A.D., Vîlcu, G.E.,** *Probleme de algebră liniară, geometrie analitică și diferențială, ecuații și sisteme de ecuații diferențiale*, Editura Printech, 2007, ISBN:978-973-718-780-2, 584 pg.

**D. LISTA ARTICOLELOR PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL**

**B1. ÎN REVISTE COTATE ISI**

**B11. CU FACTOR DE IMPACT  $\geq 0.5$**

1. **Vîlcu A.D., Vîlcu G.E.,** *Statistical manifolds with almost quaternionic structures and quaternionic Kaehler-like statistical submersions*, *Entropy*, vol. 17 (2015), No. 9, 6213-6228. **(FI=1.502)**  
<http://www.mdpi.com/1099-4300/17/9/6213>
2. **Vîlcu A.D., Vîlcu G.E.,** *On Homogeneous Production Functions with Proportional Marginal Rate of Substitution*, *Mathematical Problems in Engineering*, Volume 2013, Article ID 732643, 5 pp. **(FI=0.762)**  
<http://www.hindawi.com/42731659/>
3. **Vîlcu A.D.,** *Geodesic Effect Near an Elliptical Orbit*, *Journal of Applied Mathematics*, Volume 2012 (2012), Article ID 240459, 8 pages. **(FI=0.720)**  
<http://www.hindawi.com/journals/jam/2012/240459/>
4. **Vîlcu A.D., Vîlcu G.E.,** *On some geometric properties of the generalized CES production functions*, *Applied Mathematics and Computation*, 218 (2011), 124-129. **(FI=1.551)**  
<http://www.sciencedirect.com/science/article/pii/S0096300311007314>

**B12. CU FACTOR DE IMPACT  $< 0.5$**

1. **Vîlcu A.D., Vîlcu G.E.,** *Some characterizations of the quasi-sum production models with proportional marginal rate of substitution*, *Comptes Rendus Mathematique*, Volume 353 (2015), Issue 12, Pages 1129-1133. **(FI=0.469)**  
<http://www.sciencedirect.com/science/article/pii/S1631073X15002459>



## B2. ÎN REVISTE INDEXATE ÎN BAZE DE DATE INTERNAȚIONALE

1. **Vîlcu A.D.**, *On the orientation of the earth's polar axis of the inertia*, *Romanian Astronomical Journal*, Vol. 23 (2013), No. 1, 25-34.  
<http://www.astro.ro/~roaj/2013/03-cm-A.D.Vilcu.pdf>
2. Mihăilă I., **Vîlcu A.D.**, *On the value of the dynamical flattening of the Earth*, *Romanian Astronomical Journal*, Vol. 22 (2012), 41-54.  
<http://www.astro.ro/~roaj/2012/04-cm-Mihaila-Vilcu.pdf>
3. **Vîlcu, A.D.**, *An analytical expression for the angular velocity of the Earth*, *Applied Mathematical Sciences*, Vol. 5 (2011), No. 15, 707-716.  
<http://www.m-hikari.com/ams/ams-2011/ams-13-16-2011/vilcuAMS13-16-2011.pdf>
4. **Vîlcu A.D.**, *On the elements of the Earth's ellipsoid of inertia*, *Analele Universității București, Seria Matematică*, Vol. LVIII (2009), No. 2, 183-198.  
[http://fmi.unibuc.ro/ro/anale/matematica/mate\\_anul\\_LVIII\\_2009\\_nr\\_2\\_art\\_5.pdf](http://fmi.unibuc.ro/ro/anale/matematica/mate_anul_LVIII_2009_nr_2_art_5.pdf)
5. **Vîlcu A.D.**, **Vîlcu G.E.**, *On the existence of harmonic metrics on manifolds endowed with quaternionic structures*, *The Annals of The "Dunarea de Jos" University of Galati, Mathematics, Physics, Chemistry, Informatics*, Vol. XXXI (2008), 94-100.  
[http://www.phys.ugal.ro/Annals\\_Fascicle\\_2/](http://www.phys.ugal.ro/Annals_Fascicle_2/)
6. **Vîlcu, A.D.**, **Vîlcu, G.E.**, *Some remarks on harmonic metrics on hyper-Kähler manifolds*, *JP Journal of Geometry and Topology*, Vol. 7 (2007), No. 3, 397-403.  
<http://www.pphmj.com/abstract/2867.htm>

Data: 07.01.2016

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