Lista de lucrări

NUMELE ŞI PRENUMELE: Farkas Csaba

I. LISTA PUBLICAŢIILOR RELEVANTE

1. **Farkas Csaba,** Kristály Alexandru, Mester Ágnes, Compact Sobolev embeddings on non-compact manifolds via orbit expansions of isometry groups, CALCULUS OF VARIATIONS AND PDE, (2021) 60:128.
2. **Farkas Csaba,** Winkert Patrick, An existence result for singular Finsler double phase problems, J. DIFFERENTIAL EQUATIONS, (2021) Volume 286, 455-473.
3. **Farkas Csaba,** Varga Csaba, Kristály Alexandru(Sándor), Singular Poisson equations on Finsler-Hadamard manifolds., CALC. VAR. PARTIAL DIFFERENTIAL EQUATIONS, Vol. 54, No 2, 2015, ISSN 0944-2669, pp. 1219–1241.
4. **Farkas Csaba,** Kristály Alexandru (Sándor), Schrödinger-Maxwell systems on Hadamard manifolds, NON. ANALYSIS REAL WORLD APPL., Vol. 31, No 31, 2016, ISSN 1468-1218, pp. 473–491.
5. Francesca Faraci, **Farkas Csaba,** Kristály Alexandru (Sándor), Multipolar Hardy inequalities on Riemannian manifolds, ESAIM: CONTROL OPTIM. AND CALC. OF VARIATIONS, acceptată, DOI: 10.1051/cocv/2017057.
6. Francesca Faraci, **Farkas Csaba,** A characterization related to Schrödinger equations on Riemannian manifolds, COMM. CONT. MATH., acceptată, DOI: 10.1142/S0219199718500608.

II. LISTA COMPLETĂ DE PUBLICAŢII, CREAŢII, INVENŢII

A. Teza de doctorat.

- **Titlul tezei**: „***Symmetrization methods in the study of sublinear elliptic problems***", Univ. Babeş-Bolyai, Cluj-Napoca 2014, conducător de doctorat: prof. Dr. Varga Csaba, Calificativul: Magna cum Laude.
- **Titlul tezei**: „***Sobolev-type inequalities on Riemannian manifolds with applications***", Univ. Óbuda, Budapesta, Ungaria, 2018, conducător de doctorat: prof. Alexandru Kristály, Calificativul: Summa cum Laude.

B. Cărti publicate

B1. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate la edituri recunoscute în străinătate.

B2. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS/CNCS.

- **Farkas Csaba**, *Nonlinear PDE's via variational methods*, ISBN 978-606-975-011-7
- **Farkas Csaba**, Horobet Emil, Szász Szilárd, Tóth Csongor, *XXVIII. Nemzetközi Magyar Matematikaverseny*, Editura Mentor, 2019, ISBN:978-606-8861-31-9
- **Farkas Csaba**, Olteán-Péter Boróka, *Bevezetés a közönséges differenciálegyenletek* elméletébe, Editura Scientia, ISBN: 978-606-975-033-9

B3. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate la alte edituri sau pe plan local.

B4. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

B5. Capitole de cărţi publicate în străinătate

B6. Capitole de cărţi publicate în ţară

C. Lucrări ştiinţifice publicate

C1. Lucrări ştiinţifice publicate în reviste cotate ISI

1. **Farkas Csaba,** Critical elliptic equations on non-compact Finsler manifolds, PUBL. MATH. DEBRECEN 104 (2024), no. 1-2, 231–252.

2. **Farkas Csaba,** Kajántó Sándor, Kristály Alexandru, Sharp spectral gap estimates for higher-order operators on Cartan–Hadamard manifolds, COMM. CONT. MATH., acceptată, DOI: 10.1142/S0219199724500135, 2024.

3. **Farkas Csaba,** Kajántó Sándor, Varga Csaba, Lower semicontinuity of Kirchhoff-type energy functionals and spectral gaps on (sub)Riemannian manifolds, TOPOL. METHODS NONLINEAR ANAL. 61 (2023), no. 2, 743–760.

4. **Farkas Csaba,** Mezei Ildikó Ilona, Nagy Zsuzsanna-Tímea, Multiple solution for a fourth-order nonlinear eigenvalue problem with singular and sublinear potential, STUD. UNIV. BABEŞ-BOLYAI MATH. 68 (2023), no. 1, 139–149.

5. **Farkas Csaba,** Fiscella Alessio, Winkert Patrick, On a class of critical double phase problems, J. MATH ANAL. APP. 515 (2022), no. 2, Paper No. 126420, 16 pp.

6. **Farkas Csaba,** Fiscella Alessio, Winkert Patrick, Singular Finsler Double Phase Problems with Nonlinear Boundary Condition, ADV. NONLINEAR STUDIES, accepted, DOI: https://doi.org/10.1515/ans-2021-2143.

7. **Farkas Csaba,** Kristály Alexandru, Mester Ágnes, Compact Sobolev embeddings on non-compact manifolds via orbit expansions of isometry groups, CALCULUS OF VARIATIONS AND PDE, (2021) 60:128.

8. **Farkas Csaba,** Winkert Patrick, An existence result for singular Finsler double phase problems, J. DIFFERENTIAL EQUATIONS, (2021) Volume 286, 455-473.

9. **Farkas Csaba**, Iclanzan David, Oltean-Péter Boróka, Vekov Géza, Estimation of parameters for a humidity-dependent compartmental model of the COVID-19 outbreak, PEERJ (2021) Vol. 9 Paper No. e10790

10. Francesca Faraci, **Farkas Csaba,** On a critical Kirchhoff-type problem, NONLINEAR ANALYSIS, Volume 192, March 2020, 111679.

11. Francesca Faraci, **Farkas Csaba,** On an Open Question of Ricceri Concerning a Kirchhoff-Type Problem, MINIMAX THEORY AND ITS APPLICATIONS 04 (2019), No. 2.

12. Francesca Faraci, **Farkas Csaba,** A characterization related to Schrödinger equations on Riemannian manifolds, COMM. CONT. MATH., acceptată, DOI: 10.1142/S0219199718500608, 2018.

13. **Farkas Csaba,** Schrödinger-Maxwell systems on compact Riemannian manifolds. ELECTRON. J. QUAL. THEORY DIFFER. EQU. 2018, Paper No. 64, 18 pp.

14. Francesca Faraci, **Farkas Csaba,** Kristály Alexandru (Sándor), Multipolar Hardy inequalities on Riemannian manifolds, ESAIM: CONTROL OPTIM. AND CALC. OF VARIATIONS, 24 (2018), no. 2, 551–567.

15. Francesca Faraci, **Farkas Csaba,** New conditions for the existence of infinitely many solutions for a quasi-linear problem, PROCEEDINGS OF THE EDINBURGH MATHEMATICAL SOCIETY, Vol. (2) 59, No 3, 2016, ISSN 0013-0915, pp. 655–669.

16. **Farkas Csaba,** Kristály Alexandru (Sándor), Schrödinger-Maxwell systems on Hadamard manifolds, NONLINEAR ANALYSIS REAL WORLD APPLICATIONS, Vol. 31, No 31, 2016, ISSN 1468-1218, pp. 473–491.

17. Francesca Faraci, **Farkas Csaba,** A quasilinear elliptic problem involving critical Sobolev exponents., COLLECT. MATH., Vol. 66, No 2, 2015, ISSN 0010-0757, pp. 243–259.

18. **Farkas Csaba,** Varga Csaba, Kristály Alexandru(Sándor), Singular Poisson equations on Finsler-Hadamard manifolds., CALC. VAR. PARTIAL DIFFERENTIAL EQUATIONS, Vol. 54, No 2, 2015, ISSN 0944-2669, pp. 1219–1241.

19. **Farkas Csaba,** Varga Csaba, Multiple symmetric invariant non trivial solutions for a class of quasilinear elliptic variational systems, APPL. MATH. COMPUT., Vol. 1, No 241, 2014, ISSN 0096-3003, pp. 347–355.

20. **Farkas Csaba,** Molnár Andrea Éva, A generalized variational principle and its application to equilibrium problems, JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, Vol. 156, No 2, 2013, ISSN 0022-3239, pp. 213–231.

21. **Farkas Csaba,** Mezei Ildikó Ilona, Group-invariant multiple solutions for quasilinear elliptic problems on strip-like domains, NONLINEAR ANALYSIS TMA, Vol. 79, No 1, 2013, ISSN 0362-546X, pp. 238–246.

22. **Farkas Csaba**, A generalized form of Ekeland's variational principle, ANALELE ŞTIINŢIFICE ALE UNIVERSITĂŢII, Vol. 20, No 1, 2012, ISSN 1224-1784, pp. 101–111.

C2. Lucrări ştiinţifice publicate în reviste indexate în baze de date internaţionale (indicaţi şi baza de date).

C3. Lucrări ştiinţifice publicate în reviste din străinătate (altele decât cele menţionate anterior).

1. **Farkas Csaba**, Iclanzan David, Oltean-Péter Boróka, Vekov Géza, Comparing epidemiological models with the help of visualization dashboards, ACTA UNIVERSITATIS SAPIENTIAE, INFORMATICA, 12, 2 (2020) 260−282.

2. **Farkas Csaba, Molnár Andrea Éva, Nagy Szilárd**, A generalized variational principle in b-metric spaces., *MATEMATICHE (CATANIA)*, Vol. 69, No 2, 2014, ISSN 0373-3505, pp. 205–221, Mathscinet, Zentralblatt, Web of Science.

C4. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS/CNCS (altele decât cele din baze de date internaţionale).

C5. Lucrări ştiinţifice publicate în reviste, altele decât cele menţionate anterior

C6. Lucrări ştiinţifice publicate în volumele manifestărilor ştiinţifice

1. **Farkas Csaba,** Olteán Péter Boróka, Algorithm for equilibrium in the symmetric two-player Hirshleifer contests. *2023 IEEE 17th International Symposium on Applied Computational Intelligence and Informatics (SACI), Timisoara, Romania, 2023, pp. 221-226*
2. **Farkas Csaba,** Füllér Róbert, Kristály Sándor, A sublinear differential inclusion on strip-like domains, *2013 IEEE 8th International Symposium on Applied Computational Intelligence and Informatics (SACI)*, Vol. 1, No 1, 2013, pp. 185–189.
3. **Farkas Csaba,** Kristály Sándor, Fodor János, Anisotropic elliptic problems involving sublinear terms, *Applied Computational Intelligence and Informatics (SACI), 2015 IEEE 10th Jubilee International Symposium*, Vol. 1, No 1, 2015, pp. 141–146., http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=7208187
4. **Farkas Csaba,** Kristály Sándor, Szakál Anikó, Sobolev interpolation inequalities on Hadamard manifolds, *2016 IEEE 11th International Symposium on Applied Computational Intelligence and Informatics (SACI)*, Vol. 1, No 1, 2016, pp. 161–166., IEEE Xplore

D. Traduceri de cărţi, capitole de cărţi, alte lucrări ştiinţifice

E. Editare, coordonare de volume

- Editarea volumului de concurs „XIX. NEMZETKÖZI MAGYAR MATEMATIKAVERSENY”, Satu-Mare, 2010, ISBN 978-606-8052-07-6

F. Brevete de invenţii şi alte titluri de proprietate

G. Contracte de cercetare (menţionaţi calitatea de director sau membru)

1. Bursa “Corvinus Institute of Advanced Studies (CIAS) Senior non-resident research fellowship” 2024 Septemberie-2025 Februarie.
2. Bursa Bolyai János al Academiei Maghiare de Ştiinţe (2024-2027)
3. **Farkas Csaba (Director de proiect)**, Puncte critice: de la analiză la algebra, Universitatea Sapientia, Programul Universitar de Cercetare, 2019-2020, Nr. de inreg. IPC IPC: 17/11.06.2019 Nr. de înreg. Univ. Sapientia: 291/11.06.2019 Durata contractului 1 mai 2019 – 31 octombrie 2020, valoarea contractului: 38000 RON
4. **Farkas Csaba (Membru)**, Kristály Alexandru(Sándor) (Director de proiect), *Functional inequalities and elliptic PDEs: the influence of curvature.* 2018- 2022, National Research, Development and Innovation Fund of Hungary, K_18, No. 127926.a
5. **Farkas Csaba (Director de proiect)**, Puncte critice: de la analiză la algebra, Universitatea Sapientia, Programul Universitar de Cercetare, 2017-2018, Nr. de inreg. IPC 13/13/17.05.2017, Nr. de inreg. Univ. Sapientia 227/3/17.05.2017, Durata contractului 1 martie 2017–31 august 2018,.valoarea contractului: 10000 RON
6. **Farkas Csaba (Director de proiect\Bursă)**, *Multipolar Hardy inequality on non-compact Riemannian manifolds* INDAM, 2017 Julie, 2000 Euro

7. **Farkas Csaba (Director de proiect\Bursă)**, *Multipolar Hardy inequality on non-compact Riemannian manifolds* INDAM, 2016 Martie, 2000 Euro
8. **Farkas Csaba (Membru)**, Kristály Alexandru(Sándor) (Director de proiect), *Symmetries in elliptic problems: Euclidean and non-Euclidean techniques*, UEFISCDI, 2011/01–2016/01, webpage: https://sites.google.com/site/idei0241/
9. **Farkas Csaba (Membru)**, Radu Ignat (Director de proiect), *French-Romanian Laboratory LEA CNRS Maths-Mode / French-Romanian Laboratory LEA CNRS Maths-Mode / French-Romanian Laboratory LEA CNRS Maths-Mode*, UEFISCDI, 2013/01–2014/01, - RON
10. **Farkas Csaba (Director de proiect)**, Titlul proiectului: „*Anizotrópikus problémák vizsgálata kritikus pont elmélet segítségével",* Nemzeti Kiválóság Program, Ungaria, 2013/01–2014/01, 2500000 Ft

III. RECUNOAŞTEREA

I. Premii, distincţii.

a. Premiul Academiei Maghiare de Ştiinţe (AMŞ) Filiale la Cluj (Kolozsvári Akadémiai Bizottság) pentru tineri cercetatori (2019).
b. Premiul Arany János al Academiei Maghiare de Ştiinţe (2020).

J. Citări

1. Google Scholar 370
2. Mathscinet 135

Data, **Semnătura,**
2. 10. 2024