Lista de lucrări în domeniul de ştiinţă definit de disciplinele din postul scos la concurs

NUMELE ŞI PRENUMELE: Farkas Csaba

I. LISTA PUBLICAȚIILOR RELEVANTE

1. **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.
2. **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.
3. 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.
4. 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.
5. **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.

II. LISTA COMPLETĂ DE PUBLICAȚII, CREAȚII, INVENȚII

A. Teza de doctorat.

- **Titlul tezei:** „***Symmetrization methods in the study of sublinear elliptic problems***", Univ. Babeș-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, (este în curs de apariție 2018).

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. 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. **AIS: 2.161**

2. 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. **AIS: 1.255**

3. **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. **AIS: 1.407**

4. 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. **AIS: 1.103**

5. **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. **AIS: 2.736**

6. **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. **AIS: 0.801**

7. **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. **AIS: 1.423**

8. **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. **AIS: 1.274**

9. **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. **AIS: 0.202**

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, 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, 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.
2. **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
3. **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. **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
2. **Farkas Csaba (Director de proiect\Bursă)**, *Multipolar Hardy inequality on non-compact Riemannian manifolds* INDAM, 2017 Julie, 2000 Euro

3. **Farkas Csaba (Director de proiect\Bursă)**, *Multipolar Hardy inequality on non-compact Riemannian manifolds* INDAM, 2016 Martie, 2000 Euro
4. **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/
5. **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
6. **Farkas Csaba (Director de proiect)**, Titlul proiectului: *„Anizotrópikus problémák vizsgálata kritikus pont elmélet segítségével"*, Nemzeti Kiválóság Program, Ungaria, 2013/01–2014/01, 2500000 Ft

H. Creaţia artistică

H1 Participări la manifestaţii artistice internaţionale
H2. Participări la manifestaţii artistice naţionale
H3. Expoziţii, filme, spectacole, concerte, discuri de autor, opere internaţionale
H4. Expoziţii, filme, spectacole, concerte, discuri de autor, opere naţionale
H5. Produse cu drept de proprietate intelectuală în domeniul artistic

III. RECUNOAŞTEREA

I. Premii, distincţii.

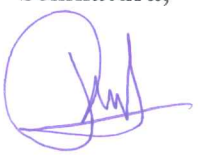
J. Citări

Vezi Anexa

K. Alte realizări semnificative.

Data,
05. iunie 2018

Semnătura,



CITATIONS, 2018 JUNE

(1) F Faraci, C Farkas, A Kristály, *Multipolar Hardy inequalities on Riemannian manifolds, ESAIM: CONTROL OPTIM. AND CALC. OF VARIATIONS, accepted, DOI: 10.1051/cocv/2017057*
- Y. Su, H. Chen The existence of nontrivial solution for biharmonic equation with sign–changing potential, in press Mathematical Methods in the Applied Sciences, 2018. **AIS: 0.771, IF: 1.017**

(2) C Farkas, A Kristály, *Schrödinger–Maxwell systems on non-compact Riemannian manifolds,*
- Y. Su, H. Chen, *The existence of nontrivial solution for a class of sublinear biharmonic equations with steep potential well,* Boundary Value Problems. 2018 Dec;2018(1):31. **AIS: 0.478, IF: 0.819**
- P.-D Thizy, *Unstable phases for the critical Schrödinger-Poisson system in dimension 4.* Differential and Integral Equations 30 (2017), no. 11-12, 825–832. **AIS: 1.223, IF: 0.565**
- Y. Su, H. Chen The existence of nontrivial solution for biharmonic equation with sign–changing potential, in press Mathematical Methods in the Applied Sciences, 2018. **AIS: 0.771, IF: 1.017**
- Bisci GM, Secchi S. *Elliptic problems on complete non-compact Riemannian manifolds with asymptotically non-negative Ricci curvature.* arXiv preprint arXiv:1803.07494. 2018 Mar 20.

(3) Farkas C, Fodor J, Kristaly A. Anisotropic elliptic problems involving sublinear terms. In Applied Computational Intelligence and Informatics (SACI), 2015 IEEE 10th Jubilee International Symposium on 2015 May 21 (pp. 141-146). IEEE.
- Della Pietra F, Gavitone N, Piscitelli G. A sharp weighted anisotropic Poincaré inequality for convex domains. Comptes Rendus Mathematique. 2017 Jul 1;355(7):748-52. **AIS: 0.811, IF: 0.396**
- Piscitelli G. Optimization problems for nonlinear eigenvalues (Tesi di dottorato, Università degli Studi di Napoli Federico II, DOI: 10.6093/UNINA/FEDOA/11885)

(4) Faraci F, Farkas C. A quasilinear elliptic problem involving critical Sobolev exponents. Collectanea Mathematica. 2015 May 1;66(2):243-59.
- Mawhin J, Molica Bisci G. A Brezis–Nirenberg type result for a nonlocal fractional operator. Journal of the London Mathematical Society. 2017 Feb 1;95(1):73-93. **AIS: 2.245, IF: 0.895**
- Bisci GM, Repovš D. Yamabe-type equations on Carnot groups. Potential Analysis. 2017 Feb 1;46(2):369-83. **AIS: 1.627, IF: 1.026**
- Hajaiej H, Molica Bisci G, Vilasi L. Existence results for a critical fractional equation. Asymptotic Analysis. 2016 Jan 1;100(3-4):209-25. **AIS: 1.146, IF: 0.933**
- G. Molica Bisci - L. Vilasi - D. Repovs, Existence results for some problems on Riemannian manifolds, Communications in Analysis and Geometry , in press **AIS: 2.256, IF: 0.667**
- Li Y, Xia S. Existence of multiple solutions for a quasilinear Neumann problem with critical exponent. Boundary Value Problems. 2018 Dec;2018(1):66. **AIS: 0.478, IF: 0.819**
- Hadiji R, Vigneron F. Existence of Solutions of a Non-Linear Eigenvalue Problem with a Variable Weight. arXiv preprint arXiv:1710.05653. 2017 Oct 16.

(5) C. Farkas, A.Kristály, C. Varga, *Singular Poisson equations on Finsler–Hadamard manifolds,* Calculus of Variations and Partial Differential Equations 54 (2), 1219-1241
- L Yuan, W Zhao, Y Shen, *Improved Hardy and Rellich inequalities on nonreversible Finsler manifolds,* Journal of Mathematical Analysis and Applications. 2018 Feb 15;458(2):1512-45. **AIS: 1.136, IF: 1.064**
- A. Kristály, D. Repovš, *Quantitative Rellich inequalities on Finsler—Hadamard manifolds.* Communications in Contemporary Mathematics. 2016 Dec;18(06):1650020.

(6) Farkas C, Molnár AÉ, Nagy S. A generalized variational principle in b-metric spaces. Le Matematiche. 2014 Oct 13;69(2):205-21.

- Koleva R, Zlatanov B. On Fixed Points for Chatterjea's Maps in b-Metric Spaces. Turkish Journal of Analysis and Number Theory. 2016;4(2):31-4.
- Turinici M. Addition-Like Variational Principles in Asymmetric Spaces. InContributions in Mathematics and Engineering 2016 (pp. 617-674). Springer, Cham.
- ILCHEV AV, ZLATANOV BG. ON FIXED POINTS FOR REICH MAPS IN B-METRIC SPACES.

(7) Farkas C, Molnár AÉ. A generalized variational principle and its application to equilibrium problems. Journal of Optimization Theory and Applications. 2013 Feb 1;156(2):213-31.

- Qiu JH. An equilibrium version of set-valued Ekeland variational principle and its applications to set-valued vector equilibrium problems. Acta Mathematica Sinica, English Series. 2017 Feb 1;33(2):210-34. **AIS: 0.534, IF: 0.446**
- Qiu JH, He F, Soubeyran A. Equilibrium versions of variational principles in quasi-metric spaces and the robust trap problem. Optimization. 2018 Jan 2;67(1):25-53. **AIS: 0.971, IF: 0.88**
- Ramirez LM. UM MÉTODO PROXIMAL INEXATO COM DISTˆANCIAS PROXIMAIS PARA PROBLEMAS DE EQUILÍBRIO QUASE-MONOTONO (Doctoral dissertation, Universidade Federal do Rio de Janeiro).

(8) Farkas C. A generalized form of Ekeland's variational principle. Analele Universitatii" Ovidius" Constanta-Seria Matematica. 2012 May 1;20(1):101-12.

- Almezel S. Topics in fixed point theory. Ansari QH, Khamsi MA, editors. Springer; 2016.
- Ansari QH. Ekeland's variational principle and its extensions with applications. InTopics in fixed point theory 2014 (pp. 65-100). Springer, Cham.
- Turinici M. Addition-Like Variational Principles in Asymmetric Spaces. InContributions in Mathematics and Engineering 2016 (pp. 617-674). Springer, Cham.

(9) Farkas C, Mezei II. Group-invariant multiple solutions for quasilinear elliptic problems on strip-like domains. Nonlinear Analysis: Theory, Methods & Applications. 2013 Mar 1;79:238-46.

- Mezei II, Molnár AÉ, Vas O. Multiple symmetric solutions for some hemi-variational inequalities. Studia Universitatis Babes-Bolyai, Mathematica. 2014 Sep 1;59(3).

(10) Farkas C, Varga C. Multiple symmetric invariant non trivial solutions for a class of quasilinear elliptic variational systems. Applied Mathematics and Computation. 2014 Aug 15;241:347-55.

- Mezei II, Molnár AÉ, Vas O. Multiple symmetric solutions for some hemi-variational inequalities. Studia Universitatis Babes-Bolyai, Mathematica. 2014 Sep 1;59(3).