



Kajántó Sándor

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EXPERIENȚA PROFESIONALĂ

Asistent universitar

Universitatea Babeș-Bolyai (UBB), Facultatea de Matematică și Informatică (FMI) [2019 – În curs]

Localitatea: Cluj-Napoca | Țara: România

Cadru didactic asociat

UBB, FMI [2017 – 2019]

Localitatea: Cluj-Napoca | Țara: România

EDUCAȚIE ȘI FORMARE PROFESIONALĂ

Diplimă de Doctor

UBB, FMI, Școala Doctorală de Matematică și Informatică [2018 – 2024]

Lucrarea de diplomă: O nouă abordare pentru inegalități de tip Hardy și Rellich

Diplomă de Master

UBB, FMI, Analiza Datelor și Modelare [2015 – 2018]

Diplomă de Master

UBB, FMI, Matematică Computațională [2015 – 2018]

Diplomă de Licență

UBB, FMI, Matematică-Informatică [2012 – 2016]

Diplomă de Licență

UBB, Facultatea de Fizică, Fizică-Informatică [2012 – 2016]

COMPETENȚE LINGVISTICE

Limbă(i) maternă(e): maghiară

Altă limbă (Alte limbi): engleză | germană | română

COMPETENȚE DIGITALE

Latex Software / Mathematical Computing

PUBLICAȚII

[2024]

[A generic functional inequality and Riccati pairs: an alternative approach to Hardy-type inequalities](#)

Kajántó S., Kristály A., Peter I.R., Zhao W. - Math. Ann., 390, 3621–3663

[2024]

[Sharp spectral gap estimates for higher-order operators on Cartan-Hadamard manifolds](#)

Farkas Cs., Kajántó S., Kristály A. - Commun. Contemp. Math., accepted

[2024]

Rellich inequalities via Riccati pairs on model space forms

Kajántó S. - J. Math. Anal. Appl. 531(2), 127870.

[2023]

Saturation phenomena of a nonlocal eigenvalue problem: the Riemannian case

Kajántó S., Kristály, A. - Optimization, 1-24

[2023]

Lower semicontinuity of Kirchhoff-type energy functionals and spectral gaps on (sub) Riemannian manifolds

Farkas C., Kajántó S., Varga C. - Topol. Methods Nonlinear Anal. 61(2), 743-760.

[2022]

On possible generalisations of quasi-contractions

Cseh T., Kajántó S., Lukács A. - Stud. Univ. Babeş-Bolyai Math. 67 (3), 615–619

[2021]

Unexpected Behaviour of Flag and S-Curvatures on the Interpolated Poincaré Metric

Kajántó S., Kristály, A. - J. Geom. Anal. 31, 10246–10262

[2018]

Universality in the coarse-grained fluctuations for a class of linear dynamical systems

Kajántó S., Néda Z. - Phys. A: Stat. Mech. Appl. 503 pp. 215-220. , 6 p

[2018]

On the Conditions of Fixed-Point Theorems Concerning F-Contractions

Kajántó S., Lukács A. - Results Math. 73 : 2 p. 73

[2018]

Fixed point theorems for various types of F-contractions in complete b-metric spaces

Lukács A., Kajántó S. - Fixed Point Theory 19. pp. 321-334.

[2018]

A note on the paper “Contraction mappings in b-metric spaces” by Czerwik

Kajántó S., Lukács A. - Acta Univ. Sapientiae Math. 10 : 1 pp. 85-89. , 5 p.

[2018]

Ordinary Differential Equations (Lecture Notes)

Andrász Sz., Kajántó S., Lukács A. - STATUS, Miercurea-Ciuc, ISBN 978-606-661-086-5

CONFERINȚE ȘI SEMINARE

[02/09/2024 – 06/09/2024] Brasov

New Methods in Finsler geometry IV

Title of the talk: Hardy inequalities via Riccati pairs
on Finsler manifolds

[30/06/2024 – 03/07/2024] Copenhagen, Denmark

33rd European Conference on Operational Research

Title of the talk: Hardy inequalities via Riccati pairs

[23/08/2023 – 25/08/2023] Budapest

20th Workshop on Advances in Continuous Optimization

Title of the talk: Saturation of a nonlocal eigenvalue problem on Riemannian manifolds

[12/06/2023 – 16/06/2023] Debrecen

Colloquium on Finsler Geometry and its Applications

Title of the talk: The flag and S-curvatures of the interpolated Poincaré metric: unexpected behaviours

[23/05/2023 – 26/05/2023] Timișoara

IEEE 17th International Symposium on Applied Computational Intelligence and Informatics

Title of the talk: Saturation phenomena of a Riemannian non-local eigenvalue problem

[18/05/2023 – 19/05/2023] Iași

Workshop for Young Researchers in Mathematics – 12th Edition

Title of the talk: On the flag and S-curvatures of the interpolated Poincaré metric

PROJECTS

[2020 – 2023]

UEFISCDI/CNCS PCE grant

PN-III-P4-ID-PCE2020-1001 – PhD student