

Teza de abilitare:

Contributions to Complex Finsler Geometry. Models for Optimal Navigation under Gravity - A Finsler Approach

Autor: Conf. univ. dr. Codruța Nicoleta Aldea

Domeniu: Matematică

PORTOFOLIU DE LUCRĂRI RELEVANTE ÎN DOMENIUL MATEMATICĂ

1. N. Aldea, P. Kopacz, *Time geodesics on a slippery cross slope under gravitational wind*, **Nonlinear Analysis-Real World Applications**, 81, 104177 (2025)
<https://doi.org/10.1016/j.nonrwa.2024.104177>
Q1, AIS=1.050; cf. JCR 2020 (iunie 2021) [Mathematics, Applied] ISSN 1468-1218
2. N. Aldea, P. Kopacz, *The slope-of-a-mountain problem in a cross gravitational wind*, **Nonlinear Analysis-Theory Methods & Applications**, 235, 113329 (2023)
<https://doi.org/10.1016/j.na.2023.113329>
Q1, AIS=1.143; cf. JCR 2020 (iunie 2021) [Mathematics] ISSN 0362-546X
3. N. Aldea, P. Kopacz, *Time geodesics on a slippery slope under gravitational wind*, **Nonlinear Analysis-Theory Methods & Applications**, 227, 113160 (2023)
<https://doi.org/10.1016/j.na.2022.113160>
Q1, AIS=1.143; cf. JCR 2020 (iunie 2021) [Mathematics] ISSN 0362-546X
4. N. Aldea, P. Kopacz, R. Wolak, *Randers metrics based on deformations by gradient winds*, **Periodica Mathematica Hungarica**, 86(1), 266-280 (2023)
<https://doi.org/10.1007/s10998-022-00464-8>
Q2, AIS=0.485; cf. JCR 2023 (iunie 2024) [Mathematics] ISSN 0031-5303
5. N. Aldea, *Zermelo deformation of Hermitian metrics by holomorphic vector fields*, **Results in Mathematics**, 75(4) 140 (2020)
<https://doi.org/10.1007/s00025-020-01270-9>
Q2, AIS=0.666; cf. JCR 2021 (iunie 2022) [Mathematics] ISSN 1422-6383
6. N. Aldea, P. Kopacz, *Generalized Zermelo navigation on Hermitian manifolds under mild wind*, **Differential Geometry and its Applications**, 54(A), 325-343 (2017)
<https://doi.org/10.1016/j.difgeo.2017.05.007>
Q2, AIS=0.462; cf. JCR 2023 (iunie 2024) [Mathematics] ISSN 0926-2245
7. N. Aldea, G. Munteanu, *On complex Douglas spaces*, **Journal of Geometry and Physics**, 66, 80-93 (2013)
<https://doi.org/10.1016/j.geomphys.2012.11.011>
Q2, AIS=0.581; cf. JCR 2023 (iunie 2024) [Mathematics] ISSN 0393-0440
8. N. Aldea, G. Munteanu, *Projectively related complex Finsler metrics*, **Nonlinear Analysis-Real World Applications**, 13(5), 2178-2187, (2012)
<https://doi.org/10.1016/j.nonrwa.2012.01.013>
Q1, AIS=1.050; cf. JCR 2020 (iunie 2021) [Mathematics, Applied] ISSN 1468-1218

9. **N. Aldea**, G. Munteanu, *On complex Landsberg and Berwald spaces*, **Journal of Geometry and Physics**, 62(2), 368-380 (2012)
<https://doi.org/10.1016/j.geomphys.2011.10.010>
Q2, AIS=0.581; cf. JCR 2023 (iunie 2024) [Mathematics] ISSN 0393-0440
10. **N. Aldea**, G. Munteanu, *On projective invariants of the complex Finsler spaces*, **Differential Geometry and its Application**, 30(6), 562-575 (2012)
<https://doi.org/10.1016/j.difgeo.2012.07.010>
Q2, AIS=0.462; cf. JCR 2023 (iunie 2024) [Mathematics] ISSN 0926-2245

Data: 16.06.2025

Codruța Nicoleta Aldea