<div align="center">

Fişa îndeplinirii standardelor minimale CNADTCU

Prof. univ. dr. Benedek Jozsef

</div>

Criteriul 1:

Articole WOS

5 articole ca autor principal în reviste cu factor de impact, in baza de date Web of Science, cu AIS cumulate >= 3,5;

1. **BENEDEK J**., CIOBANU S., MAN T. (2016) Hot spots and social background of urban traffic crashes: a case study in Cluj-Napoca (Romania). *Accident Analysis and Prevention*, 87:2, 117-126. IF: 2,070, AIS: 0,915.
2. **BENEDEK J**., SEBESTYÉN T., BARTÓK B. (2018) Evaluation of renewable energy sources in peripheral areas and renewable energy-based rural development. *Renewable and Sustainable Energy Reviews*, 90:7, 516-535. IF: 9,1, AIS: 1,876.
3. **BENEDEK J**., TEMERDEK-IVAN K., TÖRÖK I., TEMERDEK A. HOLOBÂCĂ I.H., (2021) Indicator based assessment of local and regional progress towards the Sustainable Development Goals (SDGs): an integrated approach from Romania. *Sustainable Development*, 1-16. IF: 6,159; AIS: 0,918.
4. IVAN K., HOLOBÂCĂ I.H., **BENEDEK J**., TÖRÖK I. (2020) Potential of Night time lights to measure regional inequality. *Remote Sensing*, 12:1, 33, IF: 4,509, AIS: 0,927. (autor corespondent).
5. IVAN K., HOLOBÂCĂ I.H., **BENEDEK J**., TÖRÖK I. (2020) VIIRS Nighttime Light Data for Income Estimation at Local Level. *Remote Sensing*, 12:18, 2950, IF: 4,509, AIS: 0,927. (autor corespondent).

AIS cumulat = 5.563.

Articole BDI

1. BENEDEK J., MOLNÁR G. (2001) Die wirtschaftliche Situation in der Region Baia Mare und ihre Auswirkungen auf das Gesundheitsniveau der Bevölkerung, *Petermanns Geographische Mitteilungen* **3**, 68 - 75. (Scopus).
2. BENEDEK J., JORDAN P. (2007) Administrative Dezentralisierung, Regionalisierung und Regionalismus in den Transformationsländern am Beispiel Rumäniens, *Mitteilungen der Österreichischen Geographischen Gesellschaft* 149 Jg., 81 - 108. FI: 0,839. [0,419], AIS: 0,168. (web of science).
3. BENEDEK, J. (2010) Die demographische und wirtschaftliche Grundlagen einer integrierten Entwicklungspolitik in ländlichen Räumen Rumäniens. *„Club of Economics in Miskolc" Theory, Methodology, Practice*, (6): **2**, 93-100. (ProQuest, Ebsco, Erih Plus).
4. BENEDEK, J., KURKÓ, I. (2010) The Evolution of Regional Economic Disparities in Romania. *Transylvanian Review*, (19):Supplement No. **4**, 143-158. (web of science).

5. MÁTÉ, G., NÉDA, Z., BENEDEK, J. (2011) Spring-block model reveals region-like structures. *PLoS ONE* 6 (2): e16518. doi: 10.1371/journal.pone.0016518. FI: 4,2. [1,4], AIS: 1,798. (web of science).

6. KNAPPE, E., BENEDEK, J., ILIEVA, M. (2011) Periphere Regionen in Südosteuropa und ihr Potenzial. *Geographische Rundschau* (63): 4, 28-33. (Scopus).

7. BENEDEK, J., KURKÓ, I. (2011) Evolution and Characteristics of Territorial Economic Disparities in Romania. *„Club of Economics in Miskolc" Theory, Methodology, Practice*, (7): **1**, 5-15. (ProQuest, Ebsco, Erih Plus).

8. BENEDEK, J., KURKÓ, I. (2011) A területi egyenlőtlenségek alakulása és jellemzői Romániában. *Észak-magyarországi Stratégiai Füzetek* (8): **2**, 104-119. (REPEC).

9. KOCZISZKY, Gy., BENEDEK, J. (2012) Contributions to the issues of regional economic growth and equilibrium as well as the regional policy. *Hungarian Geographical Bulletin* (61): 2, 113-130. (Scopus).

10. CRISTEA, M., BENEDEK, J. (2012) Localism and Economic Growth. Case Study: Municipality of Gherla. *Romanian Review of Regional Studies* (8):**1**, 31-44. (Ebsco, Copernicus, ProQuest).

11. BENEDEK, J., KURKÓ, I. (2012) Convergence or divergence? The Position of Romania in the Spatial Structure of the European Union. *Transylvanian Review*, (21):**2**, 116-125. FI: 0,089. [0,045] (web of science).

12. CRISTEA, M., VARVARI, S., BENEDEK, J. (2012) Pros and cons of foreign direct investments on local economy, Pros and cons of foreign direct investments on local economy. *Észak-magyarországi Stratégiai Füzetek* (9):**2**, 20-34. (REPEC).

13. BENEDEK, J., CRISTEA, M., BARTÓK, B. (2013) The Development of renewable energy clusters in the North-West region of Romania. *Environmental Engineering and Management Journal*, (12):**2**, 1535-1542. IF: 1,258. [0,419] IS: 0,066 (scopus).

14. BENEDEK J., VERESS N. (2013) Economic Disparities and Changes in the Convergence of the Romanian NUTS 2 and NUTS 3 Regions. *Romanian Review of Regional Studies*. (9):**1**, 85-90. (Ebsco, Copernicus, ProQuest).

15. BENEDEK, J. (2013) The Spatial Planning System in Romania. *Romanian Review of Regional Studies*, (9):**2**, 23-30. (Ebsco, Copernicus, ProQuest).

16. BENEDEK, J., TÖRÖK, I., (2014) County-level demographic disparities in Romania. *Transylvanian Review*, (23):**2**, 138-147. IF: 0,012. (web of science).

17. BENEDEK J., BAJTALAN, H. (2015) Recent regionalisation discourses and projects in Romania with special focus on the Székelyland. *Transylvanian Review of Administrative Sciences,* 44E, 23-41. IF: 0,333 [0,166], AIS: 0,073. (web of science).

18. IVAN K., HAIDU I., BENEDEK J., CIOBANU S. M. (2015) Identification of traffic accident risk-prone areas under low lighting conditions. *Natural Hazards and Earth System Sciences Discussions,* 3:2, 1453-1472. *Natural Hazards and Earth System Sciences*, 15:9, 2059-2068. IF:1,735 [0,433], AIS: 0,721 (web of science).

19. BENEDEK J. (2015) Spatial differentiation and core-periphery structures in Romania. *Eastern Journal of European Studies*, 6:1, 49-61. (web of science).

20. BENEDEK, J., CRISTEA, M., SZENDI D. (2015) Catching up or falling behind? Economic convergence and regional development trajectories in Romania. *Romanian Review of Regional Studies*, 11:1, 15-34. (Ebsco, Copernicus, ProQuest).

21. BENEDEK J., MOLDOVAN A. (2015) Economic convergence and polarisation: towards a multi-dimensional approach. *Hungarian Geographical Bulletin*, 64:3, 187-203. (Scopus).

22. BENEDEK, J., KOCZISZKY GY., VERESNÉ SOMOSI M., BALATON K. (2015) Regionális társadalmi innováció generálása szakértői rendszer segítségével. *Észak-Magyarországi Stratégiai Füzetek*, 12:2, 4-23. (REPEC).

23. CIOBANU S., BENEDEK J. (2015) Spatial characteristics and public health consequences of road traffic injuries in Romania. *Environmental Engineering and Management Journal*, 14:11, 2689-2702. IF: 1,065, AIS: 0,074 (web of science).

24. BENEDEK, J. (2016) Centrum-periféria elméletek. *Észak-Magyarországi Stratégiai Füzetek*, 13:1, 4-17. (REPEC).
25. BENEDEK, J., HĂRĂNGUȘ, I., MAN T. (2016) Commuting patterns in Romania. Case study on Cluj County. *Regional Statistics*, 6:2, 38-52. (Scopus).
26. BENEDEK J., KOCZISZKY GY., VERESNÉ SOMOSI M., BALATON K. (2016) Generating and Measuring Regional Social Innovation. *Club of Economics Miskolc TMP*, vol. 12, special issue, 14-25. (ProQuest, Ebsco, Erih Plus).
27. IVAN K., BENEDEK J. (2017) The assessment relationship between land surface temperature (LST) and built-up area in urban agglomerations. Case study: Cluj-Napoca, Romania. *Geographia Technica*. 12:1, 64-74. (web of science).
28. COȘCIUG A., CIOBANU S., BENEDEK J. (2017) The safety of imported second-hand vehicles: case study on vehicle-to-vehicle crashes in Romania. *Sustainability*. 9:12, 2380. IF: 2,075, AIS: 0,323. (web of science).
29. BENEDEK J., LEMBCKE, A.C. (2017) Characteristics of recovery and resilience in the Romanian regions. *Eastern Journal of European Studies*. 8:2, 95-126. (Scopus, Web of Science).
30. CEBOTARI, S., BENEDEK, J. (2017) Renewable Energy Project As A Source On Innovation In Rural Communities. *Sustainability*, 9:4, 509. IF: 2,075, AIS: 0,323. (Web of Science).
31. NAGY J., BENEDEK J., IVAN K., (2018) Measuring Sustainable Development Goals At Local Level. A Case Of A Metropolitan Area In Romania, *Sustainability*, 10:11, 3962. IF: 2,075, AIS: 0,323. (Web of Science).
32. NAGY J., BENEDEK J. (2018) Towards a balanced metropolitan governance: combating the "back-door" status of peripheral rural areas. *Transylvanian Review*, 27:1, 3-20. IF: 0,045, IS: 0,003. (web of science).
33. KOCZISZKY GY., BENEDEK J., SZENDI D. (2018) The impact of the 2008 financial crisis on the evolution of household incomes and wealth in Visegrad countries. *Regional Statistics*. 8:1. 1-27. (web of science).
34. NAGY J., BENEDEK J., IVAN K., (2018) Measuring Sustainable Development Goals at local level. A case of a metropolitan area in Romania, *Sustainability*, 10:11, 3962. IF: 2,075, AIS: 0,323. (web of science).
35. TÖRÖK I., BENEDEK J. (2018) Spatial Patterns of Local Income Inequalities. *Journal of Settlements and Spatial Planning*. 9:2, 77-91. (web of science).
36. DRĂGAN M., MUREȘAN A., BENEDEK J. (2018) Pășunile împădurite din perspectiva politicilor silvice și agricole din România. *Geographia Napocensis*. 12:2, 15-23. (Copernicus).
37. BENEDEK J., IVAN K. (2018) Remote sensing based assessment of variation of spatial disparities. *Geographia technica*, 13:1, 1-9. (Scopus, Web of Science).
38. BENEDEK J., TÖRÖK I., MÁTHÉ CS. (2018) Evidence-based designation of development regions in Romania. *Regional Statistics*. 8:1, 1-20. (Scopus, Web of Science).
39. BENEDEK J., KOCSZISZKY GY., VERESNÉ SOMOSI M. (2018) Az innováció vizsgálatának elméleti és gyakorlati kérdései: technológiai innovációtól társadalmi innovációig. *Erdélyi Társadalom*, 16:2, 11-30. (Index Copernicus, CEEOL, ProQuest).
40. IVAN K., **BENEDEK J.**, CIOBANU S. (2019) School-age pedestrian-vehicle crashes vulnerability. Case study: Bucharest city, Romania. *Sustainability*. 11:4, 1214, IF: 2,075, AIS: 0,332. (Scopus, Web of Science).
41. DRĂGAN M., MUREȘAN A., BENEDEK J. (2019) Mountain wood-pastures and forest cover loss in Romania. *Journal of Land Use Science*, 14:4-6, 397-409. IF:1,106. (contribuție egală, menționată în publicație), (Scopus, Web of Science).
42. BENEDEK J. (2019) Földrajzi tényezők szerepe a gazdasági teljesítmény alakulásában. *Észak-magyarországi Sratégiai Füzetek*, 16:1, 14-19. (REPEC).

43. KOCZISZKY GY., BENEDEK J. (2019) Contributions to the impact assessment of network cooperation among social enterprises. *Club of Economics Miskolc TMP,* 15:2, 23-28. (ProQuest, Ebsco, Erih Plus).

44. BENEDEK J., SZENDI, D., LIPTKÁK, K. (2020) Az innováció vizsgálatának elméleti és gyakorlati kérdései: a társadalmi innováció Magyarországon. *Erdélyi Társadalom*, 18:2, 19-35. (Index Copernicus, CEEOL, ProQuest).

45. BENEDEK J. (2020) A társadalmi innováció társadalmi-gazdasági, fenntarthatósági feltételeinek vizsgálata – Észak-magyarországi viszonylatban. *Észak-magyarországi Stratégiai Füzetek*, 17:3, 30-43. (REPEC).

46. BENEDEK J. (2021) Regionális egyenlőtlenség és gazdasági felzárkózás. Magyar és romániai régiók összehasonlító vizsgálata. *Észak-magyarországi Stratégiai Füzetek*, 18:1, 1-14. (REPEC).

47. BENEDEK J. (2021) Fenntartható fejlődés: banális metaforától korunk meghatározó területfejlesztési paradigmájáig. *Észak-magyarországi Stratégiai Füzetek*, 18:3, 4-14. (REPEC).

48. BENEDEK J., URSU C., VARVARI Ş. (2022) Growth pole policy's induced development and spatial inequalities in the metropolitan areas of Romania – a critical assessment. *Tér és társadalom (Space and Society)*, 36:2, 47-67, **https://doi.org/10.17649/TET.36.3.3435**. (web of science).

49. ERŐS, N., TÖRÖK, Z., HOSSU, A., C., RÉTI, K., O., MALOS, C., KECSKÉS, P., MORARIU, S., D., BENEDEK, J., HARTEL, T. (2022) Assessing the conceptual substance of sustainability of the urban development plans in an Eastern European country. *Sustainable Cities and Society*. 85, art. Number 104070, **https://doi.org/10.1016/j.scs.2022.104070**. (web of science).

50. URSU, C., BENEDEK, J. (2022) Evolution of built surfaces based on Copernicus High Resolution Layers. The case growth poles-based metropolitan areas, Romania. *Journal of Settlements and Spatial Planning*, 13:1, 45-59, **DOI: 10.24193/JSSP.2022.1.04**. (Scopus).

51. TÖRÖK, I., BENEDEK, J., ZALDÍVAR, M., G. (2022) Quantifying subnational economic complexity. Evidence from Romania. *Sustainability*, 14(17) 10586, **https://doi.org/10.3390/su141710586**. (web of science).

52. NAGY, J., BENEDEK, J. (2022) Addressing Environmental and Ecological Challenges through the Implementation of Sustainable Development Goals in a Metropolitan Context. Case Study: Cluj Metropolitan Area. *Revista Riscuri si Catastrofe/Risks and Catastrophes Journal*, 1(30), 17-32, **DOI: 10.24193/RCJ2022_2**. (ERIH+).

53. VERES, V., BENEDEK, J., TÖRÖK, I. (2022) Changes in the Regional Development of Romania (2000 – 2019), Measured with a Multidimensional PEESH Index. *Sustainability*, 14, 14500, **https://doi.org/10.3390/su142114500**. (web of science).

54. HOLOBÂCĂ, I., H., BENEDEK, J., URSU, C., D., ALEXE, M., TEMERDEK-IVAN, K. (2022) Ratio of Land Consumption Rate to Population Growth Rate in the Major Metropolitan Areas of Romania. *Remote Sensing*. 14(23):6016. **https://doi.org/10.3390/rs14236016**. (web of science).

55. BENEDEK, J. (2023) Spatial Localization of the Sustainable Development Goals. *Public Finance Quarterly*, 1(69), 64-74. **DOI: https://doi.org/10.35551/PFQ_2023_1_4 (web of science).**

56. BENEDEK, J., VERES, V. (2023) Regional Development Differences and Cultural Value Patterns: the Romanian case. *Regional Statistics*, 13:6, 1098-1123. DOI: 10.15196/RS130604. (web of science, scopus).

57. BĂDESCU, G., ANGI, D, BENEDEK, J., CONSTANTINESCU, S. (2023) Historical Legacies and Their Impact on Human Capital: Comparing Regions within Romania. *East European Politics & Societies and Cultures*. DOI: **10.1177/08883254231219015**. (web of science).

58. BENEDEK, J. (2023) The Spatial Planning System and Practice in Post-Socialist Romania: Between the Heritage of „Systematization" and Europenization. *Észak-magyarországi Stratégiai Füzetek*, 20:4, 17-29. DOI: 10.32976/stratfuz.2023.33. (REPEC).

59. BĂDESCU, G., ANGI, D, BENEDEK, J., CONSTANTINESCU, S. (2024) Historical Legacies and Their Impact on Human Capital: Comparing Regions within Romania. *East European Politics & Societies and Cultures*. DOI: 10.1177/08883254231219015.

60. URSU, C., BENEDEK, J. (2024) Exploring local income inequalities using spatial statistics. Emphasis on Romanian metropolitan areas. *Eastern Journal of European Studies*, 15:1, 298-323. DOI: https://doi.org/10.47743/ejes-2024-0113

https://ejes.uaic.ro/articles/EJES2024_1501_URS.pdf

61. TEMERDEK-IVAN, K. BENEDEK, J., HOLOBÂCĂ, I., H., TÖRÖK, I., ALEXE, M. (2024) Determination of Land Degradation at a Local Scale Using Advanced Analytical Techniques. *Land Degradation & Development*, 36:5, 1614-1627, WOS:001385095700001,DOI:10.1002/ldr.5450.https://onlinelibrary.wiley.com/doi/epdf/10.1002/ldr.5450

62. URSU, C., BENEDEK, J., TEMERDEK-IVAN, K. (2025) Accuracy assessment of four land cover databases at urban, rural and metropolitan area level. *Remote Sensing*, 17:5, 756, https://doi.org/10.3390/rs17050756. https://www.mdpi.com/2072-4292/17/5/756.

Articole în reviste BDI: 58 (standard minimal: 3)

Criteriul 2: **Vizibilitatea articolelor stiintifice**

Indicele Hirsch >= 4

Indice Hirsch obținut: 13 (standard minimal 4)

Criteriul 3: Capacitatea de susținere a activităților de cercetare

A.Director∕Lider de proiect/grant în 2 proiecte/granturi naționale sau responsabil de proiect∕grant în 3 proiecte∕granturi de cercetare naționale

*1. PN-III-P4-ID-PCCF-2016-0084, **coordonator Partener 1** (2018-2022). Valoare: 8.500.000 lei. **Înțelegerea și modelarea structurilor spațio-temporale ale inegalităților și polarizării în relație cu caracteristicile psihologice** (PN-III-P4-ID-PCCF-2016-0084, Director proiect: Daniel David, Lider de echipă de cercetare: Benedek Jozsef, 2018-2022)*

2. "*Analiza și modelarea creșterii urbane bazate pe observații terestre în marile zone urbane*" PN-III-P4-ID-PCE-2020-0920, nr. contract: PCE 211/2021 (2021-2022), finanțat de UEFISCDI, valoare: 796 863 lei, **director**.

B. Director/lider la 1 proiect∕grant internațional sau responsabil de proiect∕grant în 2 proiecte ∕granturi de cercetare internaționale.

*1. Proiect FP 7, Programul „People. Initial Training Networks", nr. 607 022, tema „Socio-economic and Political Responses to Regional Polarisation in Central and Eastern Europe", 2014-2017, cu CE, **director de proiect** din partea UBB. Valoare: 358.146 euro.*

2. "Fiatalodó és megújuló egyetem – Innovatív tudásváros. A Miskolci Egyetem intelligens szakosodást szolgáló intézményi fejlesztése". [Universitate reînnoită – Oraș inovativ bazat pe cunoaștere. Dezvoltarea instituțională a Universității Miskolc cu scopul specializării inteligente] EFOP-3.6.1-16-2016-00011. 2016-2020, Miskolc University, **coordonator Partener 5**. Buget total: 1.197.507.415 HUF, din care bugetul partnerului 5: 852 541 euro (306 914 982 HUF).

3. LIMBRA - "Decreasing the negative outcomes of brain drain in the raw material sector", Nr. 18197. 2019-2021, **Coordonator** WP2 și WP5 la Universitatea din Miskolc, buget total 860 960 Euro, buget partener Miskolc: 322 289 euro.

Total: 5 proiecte: 2 proiecte naționale și 3 proiecte internaționale
Standard minimal: 1 proiect internațional sau doua proiecte nationale

26 ianuarie 2026   **Prof. univ. dr. Benedek, Jozsef**