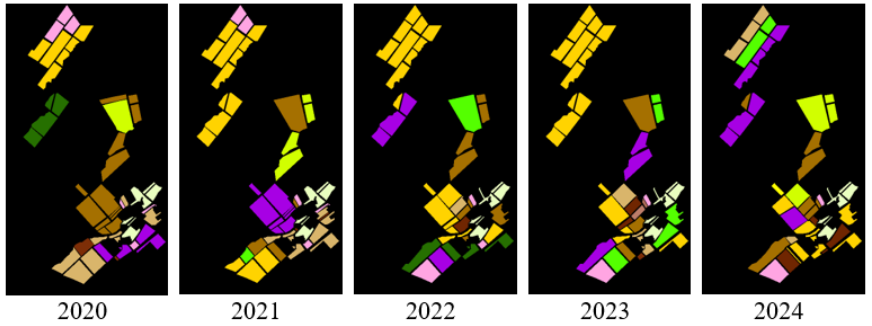
Universitatea Transilvania din Brașov
FACULTATEA DE INGINERIE ELECTRICĂ ȘI ȘTIINȚA CALCULATOARELOR

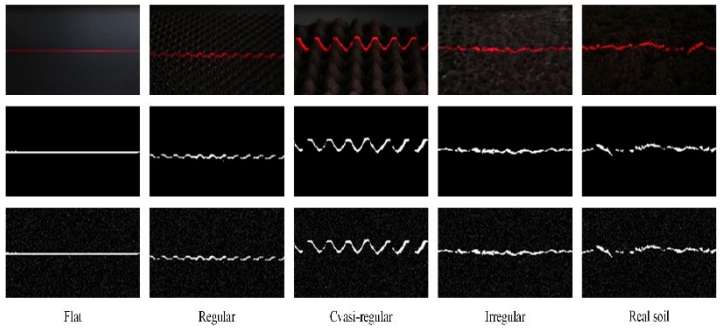
AI4AGRI – Romanian Excellence Center on Artificial Intelligence in Earth Observation data for Agriculture

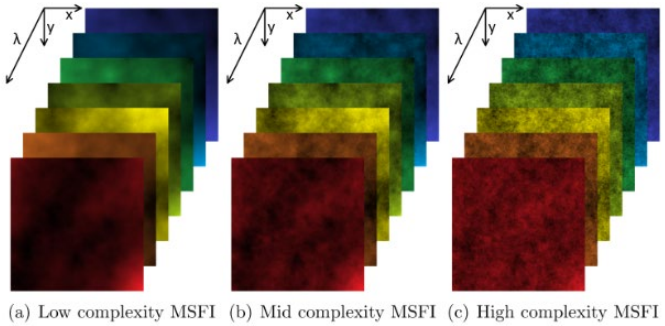
Descriere: The AI4AGRI project aims at creating a dedicated research center for AI in EO for the agricultural sector. The research excellence will be achieved through dense networking activities with two top research institutes in France and Italy in AI and EO. AI4AGRI research center will become a reference to train young scientists in the domain of AI for agriculture, providing maps of vegetation status for Romanian farmers based on EO data using AI. AI4AGRI will develop administrative and management skills for research and innovation. To achieve these goals, AI4AGRI twinning will enhance the networking activities between partners through a strategy comprising of joint research, short-term staff exchanges, expert visits and short-term training, joint summer schools and workshops, as well as conference attendance, dissemination and outreach activities.

Tehnologii: AI, EO, Copernicus, PRISMA, Specim, Avantes

Durata: 36 luni (2022-2025) Finanțator: UE - Horizon Europe **Buget: 1.4 M euro** **Coordonator:** prof. dr.ing. **Mihai IVANOVICI**







Publicații:

1. M. Ivanovici, G. Olteanu, C. Florea, R.M. Coliban, M. Ștefan, K. Marandskiy, „Digital Transformation in Agriculture”, în: L. Ivascu, L. Cioca, B. Doina, F. Filip (eds.) Digital Transformation. Springer, 2024
2. I. C. Plajer, A. Băicoianu, L. Majercsik, M. Ivanovici, "Multisource Remote Sensing Data Visualization Using Machine Learning," in IEEE Transactions on Geoscience and Remote Sensing, vol. 62, 2024
3. M. Ivanovici, S. Popa, K. Marandskiy, C. Florea, “Deep Automatic Soil Roughness Estimation from Digital Images”, European Journal of Remote Sensing, 2024
4. M. El Sakka, J. Mothe, M. Ivanovici, “Images and CNN Applications in Smart Agriculture”, European Journal of Remote Sensing, 2024

https://ai4agri.unitbv.ro/

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