

IS IT POSSIBLE TO PREDICT AND MAP NATURAL PROCESSES ON MINERAL MATERIAL OF POST-MINING SITES BY USING ML AND AI?

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The mineral material gathered on post-mining sites as a by-product of coal mining are habitats that are quickly colonized by living organisms. The primary producers that can synthesize biomass are the first element of an ecosystem where the matter and energy take place.

Using the spectral images is possible to get the very correct values of some ecosystem functional parameters that might be related to many biotic and abiotic measurements. Finding the strongest links between the values obtained from the spectra images and the measurements done in the field and the laboratory should give the ability to construct a tool to predict and produce maps of natural processes that are taking part in the mineral material of post-mining sites. This might be possible due the use of ML and AI abilities.