ABSTRACT

Current state

Reclamation land surveys currently measure the health of an environment by estimating the percentage of green plants within 1 square meter at a time.

Present problem

This system is not easy, fast, or replicable.

Present solution

However, one can quicken and increase the accuracy of this process by automating it with image processing.

Describe results

Automation requires applying a vegetation index to the photo and calculating the percent of pixels which are green. This method could also potentially be used to measure the chlorophyl levels of isolated plants.

Conclusion

This process can be used to automate reclamation survey work.

Parting shot

Automated survey work will allow reclamation workers to get even more data with much less time and effort.

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* For Vegetation index equations (RGBVI, GRVI)

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