EMERGE

Ultra-high resolution satellite imaging enables a new paradigm in global exploration. This study surveys sub-meter resolution satellite imagery of the Mongolian steppe to identify largely undocumented cultural heritage sites across a sparsely populated and undeveloped landscape. With continued advances in sensor technologies, the capabilities and limitations of remote sensing is being determined less by data resolution and more by the methods that analyze the increasingly massive datasets. Overwhelming data volumes have often led to automated analytical approaches. However, in visual analytics automated approaches lack the flexibility and sensitivity of human perception when seeking singular, undefined anomalies.

This study therefore utilizes scalable, loosely guided, online volunteer participation to generate human identifications of unknown anomalies within massive volumes of geospatial remote sensing data. The emergence of statistical trends from a large sample of independent inputs highlights the collective human perception of the images' content.

Excerpt from the introduction to the article "Crowdsourcing the Unknown: The Satellite Search for Genghis Khan" (2014) in *The PLOS ONE* by: Albert Yu-Min Lin, Andrew Huynh, Gert Lanckriet, Luke Barrington

SCIENCE STANZAS

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#PoetsForScience

Instructions

Create an Emerge poem using the excerpt on the front of this card. Mark out words and phrases with a marker so that other expressions can *Emerge* from the author's original work. Share your work through social media and tag your poem with #PoetsForScience and #TravelingStanzas. Also consider sharing to #ScienceMarch. If you'd like, mail your poem to a friend or loved one by using a first class stamp. Through the collaborative efforts of The Wick Poetry Center and The March For Science we proudly stand together to advocate for the conservation of our environment and the importance of science through the intimate and inclusive voice of poetry.

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Albert Yu-Min Lin
Co-Founder and Chief Science Officer, Planet3, Nat Geo Explorer and a UC San Diego research scientist in technology enabled exploration

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