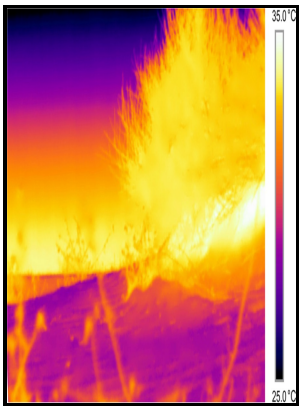
Thermal infrared characterization of ground targets and backgrounds

SPIE Press - [PDF] Airborne thermal infrared hyperspectral imaging of buried objects



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Detection of rock bridges by infrared thermal imaging and modeling

Thus, all portions of the flake with temperatures below the temperature thresholds i.

Infrared (IR) image synthesis method of IR real background and modeled IR target

These plutons are mainly composed of granite and granodiorite, with lesser quantities of diorite, tonalite, aplite and pegmatite ,,,,,. The flake is approximately 17 m length with a total surface area of 75. Results of 2-D thermal modeling of the lower half of Boot Flake for different lengths of rock bridges results of the 12 th and final day of simulation at 17:45 PST.

Ground

The second analysis uses an empirical index of rock bridge attachment area to estimate the overall stability. It is therefore necessary to develop parameter estimation and decision-making tools that enable the IR technology to distinguish signals resulting from a land mine and unrelated clutter signals.

Infrared (IR) image synthesis method of IR real background and modeled IR target

Additionally, although we did not vary the rock bridge width in our thermal modeling, we assume that this reduction factor must similarly be applied to their width i. Erosion processes in rock masses depend on properties of the intact rock and the characteristics of brittle structures such as joints and other discontinuities.

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