ABSTRACT OF THE DISCLOSURE

A method and a system for measuring a volume of a stockpile are provided. The method includes providing a plurality of images surrounding a stockpile yard and transmitting the images to a storage device; reading the images from the storage device by a processing device; calculating an overlap rate between two adjacent images to select a plurality of filtered images by the processing device; performing image enhancement on the filtered images to create a plurality of enhanced images; detecting the control points in the enhanced images and obtaining a plurality of image coordinates of each control point; calculating a plurality of 3D point clouds of the stockpile yard and a surface of the stockpile and generating a digital surface model; subtracting a digital terrain model from the digital surface model to obtain a digital stockpile model; and calculating, by the processing device, a volume of the digital stockpile model.

FIG.3