عنوان مقاله:

Estimation of metallurgical parameters of flotation process from froth visual features

محل انتشار:

مجله بین المللی معدن و مهندسی زمین, دوره 49, شماره 1 (سال: 1394)

تعداد صفحات اصل مقاله: 7

نویسنده:

Mohammad Massinaei - *Mining Engineering Department, University of Birjand, P.O. Box ۹۷۱۷۵-۳۷۶, Birjand, Iran*

خلاصه مقاله:

The estimation of metallurgical parameters of flotation process from froth visual features is the ultimate goal of a machine vision based control system. In this study, a batch flotation system was operated under different process conditions and metallurgical parameters and froth image data were determined simultaneously. Algorithms have been developed for measuring textural and physical froth features from the captured images. The correlation between the froth features and metallurgical parameters was successfully modeled, using artificial neural networks. It has been shown that the performance parameters of flotation process can be accurately estimated from the extracted image features, which is of great importance for developing automatic control systems.

کلمات کلیدی:

froth flotation, image analysis, metallurgical parameters, process control

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/488123