Fuzzy Logic based Environmental Engineering System for Assessment of Mining Area Safety

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Abstract
Mining territory's natural building framework security evaluation is the thorough measure for the state and advancement patterns of mining zone's ecological framework, and it is the significant premise to take explicit measures to control the mining region's natural framework wellbeing. In this paper, under the direction of the weight - state - reaction, the mining territory's ecological framework wellbeing appraisal record model was developed, and utilizing the fluffy control hypothesis, a thorough evaluation model was built dependent on fluffy rationale, and the model have been confirmed by a coal mining zone.

Keywords: Environmental Engineering, Mining Area; SafetySystem, Assessment, Fuzzy Logic

Abuse of mine causes shifted nonlinearity variables to the mining region's natural framework wellbeing. It's a muddle and extreme work to evaluation mining zone's natural framework security in order to take it leveled out, which an affected technique is under investigating by teachers. As the limit to security is somewhat indistinguishable, evaluation on mining territory's ecological framework wellbeing is trademark fluffiness. Taking into account this, in light of the fluffy control hypothesis, the paper made investigate on the mining region's natural framework wellbeing appraisal. Figure shows the various leveled structure and innovation cycle of the extensively appraisal of mining region's natural framework wellbeing. Investigated from figure, the four techniques of fluffy rationale based thoroughly survey of mining territory's ecological framework security are fluffiness of appraisal markers, working of fluffy rationale rule, fluffy rationale and non-fluffiness of fluffy rationale result.

Fig 1. Process of Fuzzy Logic Based Mining Area’s Environmental Engineering System
Reference