

# **Novel Solution of GNSS and Insar System for Fully Automated Mine Monitoring**

**Nander Yang (China, PR)**

**Key words:** Deformation measurement; GNSS/GPS; Mine surveying; Monitoring; Insar system

## **SUMMARY**

Mine monitoring solutions are widely used in many different types of mines. Traditionally, we use total station as the main sensor to monitor it because its reliability and cost. In this paper, we would like to present a cost effective and high accuracy solution, which use full constellation full band GNSS receivers or use the latest insar systems instead of traditional total station monitoring.

Based on full constellation full-band GNSS receivers with high computing power edge computing function. Eventually realize high precision positioning.

Self-produced and self-developed miniaturized insar system, specially tailored for mine monitoring.