Imaging and Characterization

LIDAR Imaging

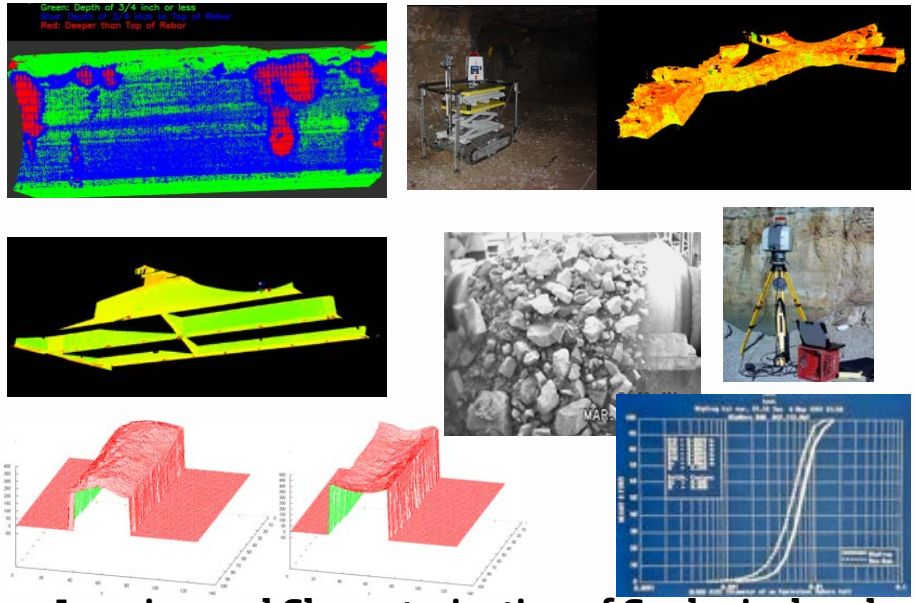
- Landslide monitoring and characterization
- Rock fall detection and prediction
- Non destructive bridge load testing
- Robotic mapping of dangerous spaces
- Autonomous navigation

Optical Imaging

- Optical Sizing of fragmented rock
- Aggregate shape characterization
- Surface roughness measurement
- Tribology
- Highway sign brightness measurement

OtherTopics

- Multivariate analysis of borehole discontinuity data
- Underground health and safety monitoring



Imaging and Characterization of Geological and Other Materials, Non-Destructive Testing

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Funding

- NIOSH (Nat. Inst. Of Occupational Health and Safety)
- MODOT (Missouri Department of Transportation)
- Toyon / Navy
- RMERC / UTC

Keywords

- LIDAR Scanning, Image Processing, NDE, Rock fall, Slope Stability, Landslides, Mining Health and Safety, Ground Control, Autonomous Navigation, Comminution, Blast Assessment

Recognitions

- Outstanding teaching commendation award, Global Learning