

Research (CGEM & GMRC)

- Second order effects in IP data acquired with the NEWDAS system
- Advanced UXO detection and discrimination using magnetic data based on extended Euler deconvolution and shape identification through multipole moments
- Enhancement of TEM Data and Noise Characterization by Principal Component Analysis
- Robust lineament delineation from magnetic data
- Interpretation of VTEM, ZTEM and MT data in difficult environments

Selected Publications

- Tom LaFehr and Misac Nabighian, Fundamentals of Gravity Exploration, in press
- Davis, K., Li, Y., and Nabighian, M., 2011, Effect of low pass filtering on the structural index from magnetic data: *GEOPHYSICS*, **76**, 23-28
- Davis, K., Li, Y., and Nabighian, M., 2010, Automatic detection of UXO magnetic anomalies using extended Euler deconvolution, *GEOPHYSICS*, vol. 75, no. 3
- Sanchez, V., Li, Y., Nabighian, M., Wright, D., 2008, Numerical Modeling of Higher Order Magnetic Moments in UXO Discrimination, *IEEE Transactions on Geoscience and Remote Sensing*, vol. 46, no. 9



Misac Nabighian
Distinguished
Sr. Scientist