
Mike L Morgan

BAE Systems – Electronic Systems

My work spans Geospatial eXploitation Products to Activity-Based Intelligence to Cloud Computing (specifically AWS).

Algorithms for GXP revolve around registration, orthorectification, and image balance. We have been concentrating on image recognition and object tracking, generally requiring parallel stream computing of large data objects.

Algorithms for ABI revolve around tracking multiple events and activities to anticipate nefarious activities. This requires parallelized graph algorithms and semantic technologies.

Cloud Computing, properly implemented, provides unparalleled performance, reliability, and security to enterprise applications. My goal is to find turnkey methods to move algorithms and existing technology into this environment.

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Computational Challenges:

1. Investigate methods to compute at the tactical edge.
2. Find ways to make algorithms loosely-coupled from the computational resources. Essentially, can we develop methods to make algorithm implementation turnkey on different platforms.
3. Look for opportunities to team with academia on various projects.

<https://www.geospatialexploitationproducts.com/>

