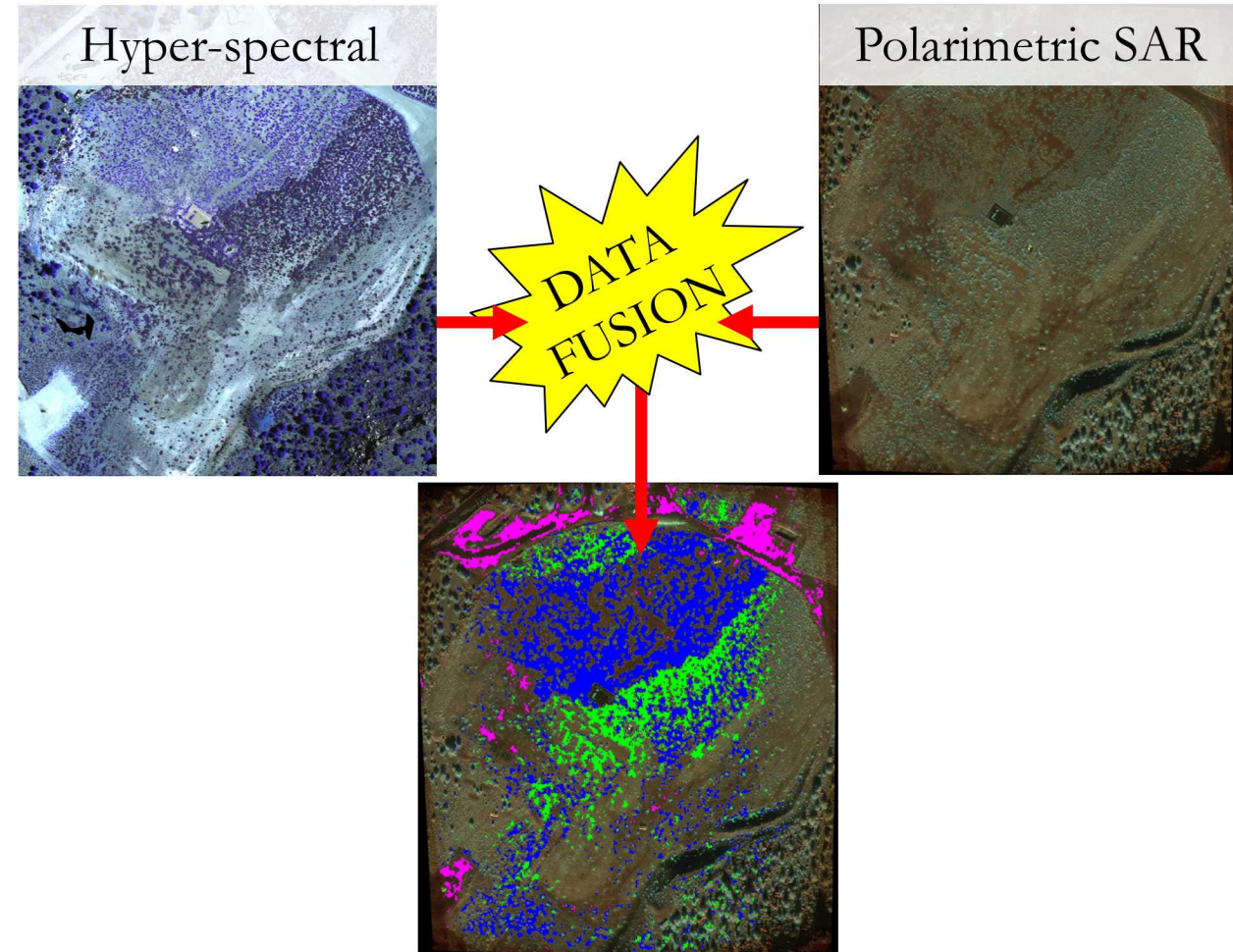


Hyper-spectral and Polarimetric SAR Data Fusion for Terrain Classification Using Probabilistic Feature Fusion

Can heterogeneous remote sensing data be fused to derive more succinct and meaningful information about a scene?

YES! We demonstrate hyper-spectral and Polarimetric synthetic aperture radar data fusion for terrain classification.

This data fusion framework is generic and may prove to be a valuable aide in the identification of non-prompt underground nuclear explosion signatures!



R. Derek West (presenter), David A. Yocky, Brian J. Redman, John D. van der Laan and Dylan Z. Anderson

Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.