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Spectral archaeological survey. Sometimes we see things, sometimes we don't. Why?

One of archaeology's central problems is to map small archaeological features with no physical traces above the ground. This is a sector with a significant economic potential due to the legislation for rescue archaeology in relation to large construction works (roads, airports, etc.). Multispectral and hyperspectral recordings seem a logical improvement of the traditional aerial photos in archaeological survey for small-scale features (individual houses, pits, road tracks etc.). Several years of R & D in this field has provided some nice examples but also demonstrated that there exist some central problems one has to deal with before we have a commercially applicable methodology. The presentation will present the former and discuss the latter.