



A review of ground penetrating radar research and practice in the United Kingdom

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Ground penetrating radar has been playing an important role for many years in assisting in the non-destructive evaluation of UK's built environment as well as being employed in more general shallow depth geophysical investigations. Ground penetrating radar, in the United Kingdom, has a long history of original work both in developing original research ideas on fundamental aspects of the technique, both in hardware and in software, and in exploring innovative ideas relating to the practical implementation of ground penetrating radar in a number of interesting projects. For example, the base of one of the biggest organisations that connects ground penetrating radar practitioners is in the United Kingdom. This paper will endeavour to review the current status of ground penetrating radar research - primarily carried out in UK Universities - and present some key areas and work that is carried out at a practical level - primarily by private enterprises. Although, the main effort is to concentrate on ground penetrating radar applications relating to civil engineering problems other related areas of ground penetrating radar application will also be reviewed. The aim is to create a current picture of ground penetrating radar use with a view to inform and potentially enhance the possibility of new developments and collaborations that could lead to the advancement of ground penetrating radar as a geophysical investigative method.

This work is a contribution to COST Action TU1208 "Civil Engineering Applications of Ground Penetrating Radar.