**INFRARED THERMOGRAPHY AND ITS APPLICATION IN CIVIL ENGINEERING**

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**ABSTRACT**

Infrared thermography is a modern measuring method for the examination of redeveloped and non-renovated buildings. Infrared cameras provide a means for temperature measurement in building constructions from the inside as well as from the outside. It has been shown that infrared thermography is also applicable for finding the exact position of heating tubes or for discovering the reasons why mould is growing in a particular area. Several techniques based on high-resolution infrared thermography have been so far developed to provide an effective and non-destructive test to assess the integrity of historical buildings, masonry and historical masonry, and wooden art crafts. Perhaps the most exciting technology to hit the construction industry is the application of infrared radiation thermography. For many years, there have been multiple uses of this technique in other industries, especially medical, security, and military applications. However in the construction industry, it is chiefly used for detection of [water leaks](http://www.basementquestions.com/drainage.php), [moisture penetrations](http://www.basementquestions.com/fdnwaterproof.php), [mould detection](http://www.basementquestions.com/mold.php), [heat and energy losses](http://www.basementquestions.com/radheat.php), and [structural integrity inspections](http://www.basementquestions.com/bowedwalls.php)