

## Abstract

Research Title : The connection of related-occurrence using detection and analyzing of Bomb situation by comparison of explosive forensic data

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The proposed system is aim to find the connection of related-occurrence of bomb situation by comparison of explosive forensic data. The explosive forensic data used in this research is mainly targeted on the cross-section image of explosive ordnance disposal. Digital image processing techniques are used to analyze and process such image to find the connection between them. The process begin from image segmentation to find the boundary box of the explosive ordnance disposal area. Then extract the area that contains key features and calculate statistical values over that area, Finally feed the values to Artificial Neural Network to classify the type of the input. The proposed method yield 71% accuracy which is satisfactory since each type of cross-section has just a little difference and hard to detect even from the human eye.