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WHAT IS DIGITAL FORENSICS?

Forensics is scientific tests or techniques utilized in reference to the detection of crime. If these scientific tests or approaches -primarily computer based - are applied in the detection of digital crimes, then the investigation of such crimes is referred to as digital forensics. Initially, the term 'digital forensics' was coined as an equivalent word for "computer forensics". It has since broadened to incorporate the investigation of any device capable of storing digital information. Read More...

HOW IS IT DONE?

In order for digital proof to be accepted in a court of law, it should be handled in a very specific means in order that there's no chance for cyber criminals to tamper with the proof. Hence it goes through the following steps:-
· Identification
· Preservation
· Analysis
· Documentation
· Presentation

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APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN DIGITAL FORENSICS

AI and some of its techniques are used to facilitate various fields in Digital Forensics by making the use of image recognition, data analysis and data mining, image processing, computational methods, statistical analysis and graphic modelling. These techniques are applied especially in fields like contriving logical and analytical evidence, 3D remodelling of crime scenes, effectively operating evidence, predicting future criminal comportment, etc.

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FUTURE PROSPECTS OF AI BASED DIGITAL FORENSICS

Knowledge Representation in artificial intelligence can be used to build ontologies in order to standardize the collected information to be shared for sophisticated criminal cases. Expert Systems in AI have the ability to analyse and criticise the process of a particular conclusion. It can also be used to speed up the process of data analysis.
A useful field of AI called 'knowledge discovery' can also be used with data mining computational methodologies, in order to analyse specific patterns in huge data collections. Read More...

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