

# An Anthology of Applied Computer Technologies

Zulkefli Muhammed Yusof  
M.M Hafizur Rahman



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# AN ANTHOLOGY OF APPLIED COMPUTER TECHNOLOGIES

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## Editors

Zulkefli Muhammed Yusof

M.M. Hafizur Rahman



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# 6. INVESTIGATING COMPUTER FORENSIC TOOLS AND THEIR SEARCHING TECHNIQUES

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## ABSTRACT

The advancement of information technology in line with the increasing number of tools to the market pose challenges to those who are carrying out forensic investigations. The forensic experts find it very complicated to choose the right tools to their intended purpose. Most of these tools come with no such documentations due to their security reasons. This paper describes an evaluation of three computer forensic tools (Scalpel, Foremost and PhotoRec) presently used in investigations and discuss some of the tests that were carried out using the three tools to determine its capabilities in terms of its performance, speed and reliability. Also it will discuss the searching methods used by each of these tools in acquiring the data for the evidences.

## 6.1 INTRODUCTION

In Digital Forensics Research Workshop (DFRWS) held in 2001 has defined computer forensics as the use of scientifically derived and proven methods towards the preservation, collection, validation, identification, analysis, interpretation, documentation and presentation of digital evidence derived from digital source for the purpose of facilitating or furthering the reconstruction of events found to be criminal, or helping to anticipate unauthorized actions shown to be disruptive to planned operations.