

Title: **Software Manipulative Techniques of Protection and Detection: A Review**

Authors: M. A. Ibrahim^{1,2}, Z. Shukur², N. Zainal³ and Abdo A. A. Al-Wosabi²

¹ National Metrology Institute of Malaysia, Lot PT 4803 Bandar Baru Salak Tinggi, 43900 Sepang, Malaysia

² Universiti Kebangsaan Malaysia, Bangi, Selangor, Malaysia

Journal: ARPJ Journal of Engineering and Applied Sciences, Vol. 10 No. 23, Dec 2015

Abstract

Over the last decade, many studies have been conducted concerning the protection of software. Software piracy, tampering and stealing became the major concern of various parties such as software developers, suppliers, traders and consumers. This paper summarizes some of the related methods in software security such as steganography, obfuscation and cryptography. Also some of the most applicable techniques in securing software from manipulation such as software watermarking, fingerprinting and software birthmarking are reviewed in this paper.