

ORIGINAL ARTICLE

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Application of Adobe® Photoshop® CC 2018 for identifying color laser printer source of Xerox® brand



Ahmad Saed Salim^{1*} and Asmaa Abdel Monsef Abdalla²

Abstract

Background: In a field of digital forensic science, we have struggled to prove and keep any evidence in its most original form. The seized source of color laser printers in forgery crimes has been still an awkward issue today in digital forensic labs for identification. Till now no any scientific method has reported at all over the world that could be applied to make a success in an investigation for identifying the source of color laser printers with accuracy ratio 100%.

Method: We have explored an advanced security feature that has embedded in the color laser printouts of Xerox® brand. Adobe® Photoshop® CC 2018 has used as an indirect and nondestructive tool for our work.

Results: In this study, we could detect the hidden information (steganalysis) embedded in the color laser printouts of Xerox® brand candidate. Therefore, we could extract the clear precise machine identification code pattern corresponding to each color laser printer of Xerox® brand selected.

Conclusion: Via Adobe® Photoshop® CC 2018, we could successfully track all active security features characteristic of the color laser printers of Xerox® brand. Moreover, we could detect the identity and uniqueness of each color laser printer which had studied with an accuracy ratio reached to a hundred percent.

Keywords: Digital forensic science, Color laser printer steganography, Embedded security features, Adobe Photoshop

Main text

Since 1990, the Japan Business Machine Makers Association (JBMA) adopted a Counterfeit Protection System to decrease the counterfeiting and positively identify color laser copiers used illegally (MAFS Workshop, 2000) (Tweedy, 2001). In 2010, with a concordance between the US Secret Service and Freedom of Information Act (FOIA) and printer manufacturers (Canon, Brother, Casio, Hewlett-Packard, Konica, Minolta, Ricoh, Sharp and Xerox) agreed for commitments for identification counterfeiting crimes had committed via color laser machines. Therefore, the determination of color laser printers source seized in forgery crimes became one of the most challenges in digital forensic labs today.

In the last decade, digital forensic labs have introduced excess approaches to try catching a source of a defendant color laser printer such as, halftone analysis (Kim & Lee, 2014), statistical analysis of discrete wavelet transform (J. Choi et al., 2009) and noisy features analysis (J. H. Choi, Lee, & Lee, 2013), etc. have used. Notwithstanding, the previous methods could give good evidence but didn't reach to hundred percent in their detections. So, we have explored a new methodology for identifying the color laser printer source in a good attend enabling us to achieve an accuracy ratio hundred percent in our investigations. In our work, we have followed an active strategy for the identification. The active strategy has presented as a form of steganography for securing color laser printouts (Mace, 2010). The printer steganography consisted of embedded small microdots in their sizes, appeared in yellow color for a naked eye by zooming in with 36 X and

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Adobe Photoshopr Panel Developers Guide

Lesa Snider



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Development will make you an even more potent and indispensable force on any development team **Adobe Photoshop**

Lightroom 2 for Digital Photographers Only Rob Sheppard, 2008-11-03 Veteran photographer Rob Sheppard finds that Lightroom 2 can give you back the control over color images that photographers once enjoyed in the traditional darkroom Packed with secrets Rob has discovered and developed this book shows you how Lightroom processes RAW and JPEG files non destructively how to navigate quickly through your photos in any module with Filmstrip how you can optimize your photos easily with the adjustment brush and graduated filter tools speedy and simple ways to process multiple images and how to prepare images for print or online display **Adobe Photoshop Lightroom Classic For Dummies** Rob

Sylvan, 2019-07-11 Edit organize store and share photos Whether you are brand new to photography a devoted enthusiast or a seasoned pro there's a version of Lightroom for you Lightroom For Dummies is the book to help you learn which version of Lightroom is right for your needs The main focus of the book is on using Lightroom Classic but also includes an introduction to Lightroom CC All with the goal of helping you get started on the right foot toward taking your photographic workflow to the next level The book is a great starting place to help you improve your family photos or add advanced Lightroom skills that aid your career Look inside to find the steps to navigating the software and getting top notch results Deciding which version of Lightroom is the best fit Take control of your photo library with Lightroom Classic Importing organizing and finding photos Editing and sharing your photos Producing a slideshow book print or web gallery Gain a foundation for getting started with Lightroom CC Get ready to spend less time in front of the computer and more time behind the lens [Learn Design for iOS](#)

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web plot a hermit uncle john communicates with animals and cares for the forest he is at odds with a forester who wants to cut down all the trees and wants any impediments like uncle john and the boy removed the child jackie had been washed downstream after a trainwreck in a storm

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