Abstract

Undoubtedly, we are living in era of digital information and technology. In this revolutionized world of digital information, we are exposed to a remarkable array of visual imagery. With sophisticated image editing tools and software, it is very easy to manipulate and temper the digital images, thereby questioning the trustworthiness of it. This paper presents a method based on a statistical technique, Independent Component Analysis (ICA), also known as a Blind Source Separation (BSS), to detect the copy-move kind of forgery in digital images. Results of this method prove that ICA can be effectively used for image forgery detection in digital image as a tool to digital image forensics.
References

Index Terms

Computer Science

Engineering and Technology

Keywords

Digital forensics  Image processing  BSS  ICA  Image tempering