**Copy-Move and Splicing Image Forgery Detection and Localization Techniques**

!Khurshid Asghar, \*Zulfiqar Habib, #Muhammad Hussain

!\*Department of Computer Science, COMSATS Institute of Information Technology, Lahore, Pakistan

#Department of Software Engineering, King Saud University, Riyadh, Saudi Arabia

!khasghar@ue.edu.pk, #mhussain@ksu.edu.sa, \*drzhabib@ciitlahore.edu.pk

***Abstract*** *—* **Digital image acquisition is now a simple task and the information in the form of digital images is drastically increasing on social media, which has both positive and negative impacts on a society in many different ways. Advanced user friendly tools have made it easy to manipulate image contents in order to gain illegal advantages or to make false propaganda, and digital images and videos are not acceptable in the courts of law as an evidence without reliable forensic analysis. A lot of research has been done in order to address this problem and many techniques exist, which detect and localize copy-move and splicing forgeries. However, it is very important to know whether these methods are robust, properly modeling the structural changes occurred in images due to copy-move and (or) splicing forgeries, and can reliably classify a digital image as genuine or modified image. In this paper, we present an extensive literature review of the state-of-the-art techniques on copy-move and splicing forgeries highlighting their limitations, and provide future research directions.**