Abstract

This is a survey paper on Multimedia forensic in mobile device. By observing numbers of multimedia forensic technique, this paper focuses on Seam carving technique. Seam carving is an adaptive multimedia retargeting technique to resize multimedia data for different display sizes. This technique has found promising applications in media consumption on mobile devices such as tablets and smart phones. However, seam carving can also be used to maliciously alter image content and when combined with other tampering operations, makes tampering detection very difficult by traditional multimedia forensic techniques. In this paper, we study the problem of seam carving estimation and tampering localization using very compact side information called forensic hash. The forensic hash technique bridges two related areas, namely robust image hashing and blind multimedia forensics, to answer a broader scope of forensic questions in a more efficient and accurate manner. We show that our recently proposed forensic hash construction can be extended to accurately estimate seam carving and detect local tampering.
References


Index Terms

Computer Science
Emerging Trends in Technology

Keywords

Forensic Hash  Seam Carving  Visual Words  Sift