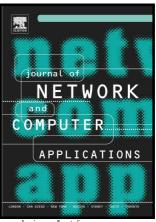
# Author's Accepted Manuscript

Copy-Move Forgery Detection: Survey, Challenges and Future Directions

Nor Bakiah Abd Warif, Ainuddin Wahid Abdul Wahab, Mohd Yamani Idna Idris, Roziana Ramli, Rosli Salleh, Shahaboddin Shamshirband, Kim-Kwang Raymond Choo



www.elsevier.com/locate/jnca

PII: S1084-8045(16)30214-4

DOI: http://dx.doi.org/10.1016/j.jnca.2016.09.008

Reference: YJNCA1720

To appear in: Journal of Network and Computer Applications

Received date: 8 March 2016 Revised date: 14 June 2016

Accepted date: 13 September 2016

Cite this article as: Nor Bakiah Abd Warif, Ainuddin Wahid Abdul Wahab, Mohd Yamani Idna Idris, Roziana Ramli, Rosli Salleh, Shahaboddin Shamshirband and Kim-Kwang Raymond Choo, Copy-Move Forgery Detection Survey, Challenges and Future Directions, *Journal of Network and Compute Applications*, http://dx.doi.org/10.1016/j.jnca.2016.09.008

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## **ACCEPTED MANUSCRIPT**

## Copy-Move Forgery Detection: Survey, Challenges and Future Directions

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#### **Abstract**

The authenticity and reliability of digital images are increasingly important due to the ease in modifying such images. Thus, the capability to identify image manipulation is a current research focus, and a key domain in digital image authentication is Copy-Move Forgery Detection (CMFD). Copy-move forgery is the process of copying and pasting from one region to another location within the same image. In this paper, we survey the recent developments in CMFD, and describe the entire CMFD process involved. Specifically, we characterize the common CMFD workflow of feature extraction and matching process using block or keypoint-based approaches. Instead of listing the datasets and validations used in the literature, we also categorize the types of copied regions. Finally, we also outline a number of future research directions. Graphical abstract

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