ImaChek

Automatic image detection system

ImaChek
Bringing Clarity to Research

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Efforts to promote research integrity has been garnering a lot of attention in the academic field. Although solutions for detecting plagiarism in text have been around for many years, an automated system dedicated to identifying manipulated and duplicated images is still not available to this date. Finding reused and manipulated images not only requires a considerable level of expertise, but is also a laborious, time-consuming, and overwhelming task, especially when handling an enormous collection of images.

FEATURES

Enhance and maintain the quality of scientific papers

Checks for signs of manipulation and duplication that come from honest error and deliberate misconduct.

Protect the reputation of institutions

Images can be checked in advance to prevent the onset of research misconduct.

Reduce checking time for faster publication

The image inspection process is automated and more efficient.

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It's Easy to use

Once the PDF containing the images, or original images of high resolution, is uploaded, ImaChek automatically extracts the images and checks for signs of possible image manipulation and reuse. The detection results can be downloaded as a PDF report.

Automated Detection of Duplicated and Manipulated Images

Duplication Detection

Nature News released in 2016 reported that the frequency of using duplicated images in one paper has doubled during the first half in the year 2000. As the number of images used in scientific papers increase, authors may unintentionally reuse the same image. As a result, however, both the researcher and the entire institution are at risk for losing their credibility and reputation. ImaChek is capable of automatically detecting duplications in scientific papers.
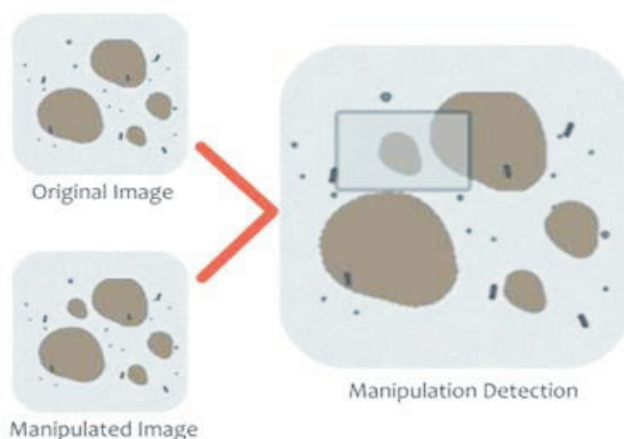
Manipulation Detection

Even though the Journal of Cell Biology devised guidelines on the acceptable standards for image processing in 2004, falsified image data in scientific papers continues to be a problem. Based on an article from Nature News in 2015, 20% of manuscripts submitted to EMBO Press was reported to have contained problematic images. In addition to the detection of image duplication, preventative measures must be established. ImaChek's unique algorithms can help to automatically identify signs of image manipulation.

FUNCTION 1
Duplication Detection

FUNCTION 2
Manipulation Detection

Original Image

Manipulated Image

Manipulation Detection