

Topic Review: Image Processing

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Summary of the Paper:

This is a summary of the article “Image Processing” by Deepika Choudhary, Anjali Lather, Sandeep Yadav. In this article, they begin by addressing what exactly the term “Image Processing” is. The article focuses on the following topics-

- Basic introduction to image processing
- Background or history of image processing.
- Types of image processing
- The techniques of image processing
- The applications of image processing

The article started off by introducing what exactly the term image processing is and where it is used. The topics which come under image processing was also included. Then they drove us back into time from where image processing came into picture. Later on, they explained in detail the different types of images processing. The two types of image processing which were mentioned in the article are Analog and Digital image processing. The article tells us that analog image processing was outdated because of the advent in the technology. Later on, they explained the process which is involved in the Digital image processing. Its benefits and advantages were explained.

Then they drove us into the various techniques which are used in image processing. Seven techniques were explained in detail. In the image Pre-processing technique, they explained the step by step procedure in detail i.e. scaling, rotation, mosaic. All the steps were clear and easy to understand.

Finally, the authors concluded with where the concept of image processing is used. The areas discussed over here are remote sensing, medical imaging, forensic science, textile industry etc.

Strengths: An interesting article on image processing. In the techniques part, the way the authors explained image representation with an example was a nice step and it added weight to the paper. The way the paper took us was excellent. That is first introduction, history, types, techniques and applications. Everything was explained point to point in a clear and easy understandable way. The elaboration was amazing. Any non-technical person who reads this article also gets a clear idea of what exactly is image processing. Explaining all the techniques diagrammatically is also a plus point. Enhancement on the taken images were eye catchy.

Weaknesses: Some of the topics were left incomplete leaving the reader a question mark of what they actually mentioned. And all the topics were very definitive i.e. it was amazing with a definition point of view. To a technical student this might seem not that interesting.

Feedback: It would be nice if the authors explained every point in the article in a more technical way.