

Image to text

Suraj Kiran S
Nakul A
Shinoj
Umesh U

Literature
survey

Block
diagram

Algorithms
Canny
Transform
Skeletonization
Machine
Learning

Execution

Initial setup
Tools
Dataset

Image to text

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Government Engineering College,
Sreekrishnapuram

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Literature survey

Block diagram

Algorithms

- Canny Transform
- Skeletonization
- Machine Learning

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- ① Literature survey
- ② Block diagram
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Block diagram

Algorithms Canny Transform Skeletonization Machine Learning

Execution Initial setup Tools Dataset

- Benjamin Z. Yao, Xiong Yang, Liang Lin, Mun Wai Lee and Song-Chun Zhu proposed an image parsing to text description that generates text for images and video content.
- Yi-Ren Yeh, Chun-Hao Huang, and Yu-Chiang Frank Wang presents a novel domain adaptation approach for solving cross domain pattern recognition problem where data and features to be processed and recognized are collected for different domains.

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- S. Shahnawaz Ahmed, Shah Muhammed Abid Hussain and Md. Sayeed Salam [8] introduced a model of image to text conversion for electricity meter reading of units in kilo-watts by capturing its image and sending that image in the form of Multimedia Message Service (MMS) to the server.
- Fan-Chieh Cheng, Shih-Chia Huang, and Shanq-Jang Ruan gave the technique of eliminating background model from video sequence to detect foreground and objects;
- Iasonas Kokkinos and Petros Maragos formulate the interaction between image segmentation and object recognition using Expectation-Maximization (EM) algorithm.

Block diagram

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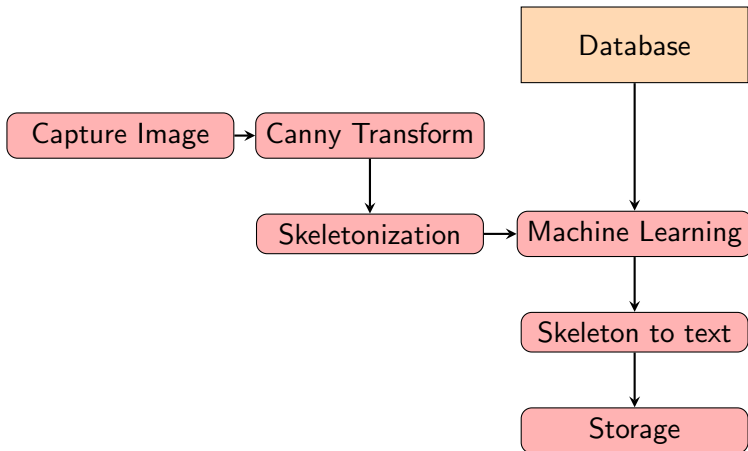


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Algorithms

Canny Transform/Edge Detection

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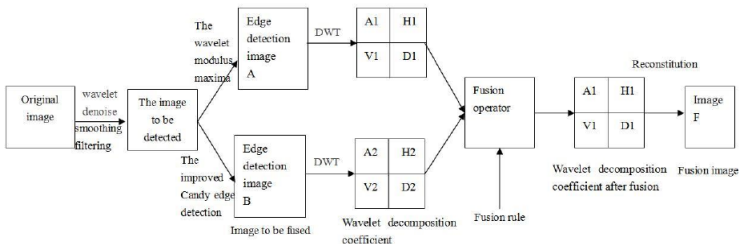


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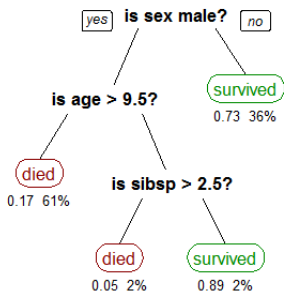
Block
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• Decision tree learning

- Uses a decision tree as a predictive model.
- Predictive modeling uses statistics to predict outcomes.





Implementation

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Intitial setup

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Block diagram

Algorithms

- Canny
- Transform
- Skeletonization
- Machine Learning

Execution

Intitial setup

- Tools
- Dataset

- Install Android Studio
- Install Anaconda library
- Create new project Android studio
- Download and import OpenCV library to Android studio project

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- Android Studio
- Anaconda
- OpenCV

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- Skeleton of letters in the alphabet
- One to one mapping of skeleton