

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

Suraj Kiran S
Nakul A
Shinoj
Umesh U

Government Engineering College,
Sreekrishnapuram

Image to text

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Literature survey

Block diagram

Algorithms

- Canny
- Transform
- Skeletonization
- Machine
- Learning

Execution

Initial setup
Tools
Dataset

① Literature survey

② Block diagram

③ Algorithms

Canny Transform

Skeletonization

Machine Learning

④ Execution

Initial setup

Tools

Dataset

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- 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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Skeletonization
Machine Learning

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Tools
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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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Literature survey

Block diagram

Algorithms

Canny Transform
Skeletonization
Machine Learning

Execution

Initial setup
Tools
Dataset

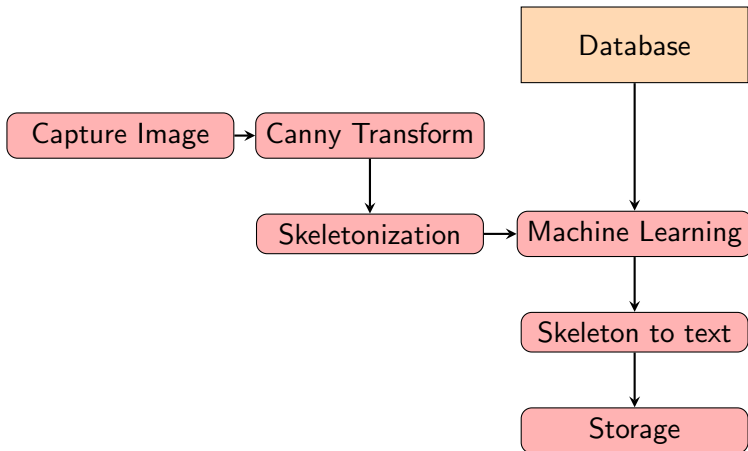


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Literature survey

Block diagram

Algorithms

Canny
Transform
Skeletonization
Machine
Learning

Execution

Initial setup
Tools
Dataset

Algorithms

Canny Transform/Edge Detection

Image to text

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Literature survey

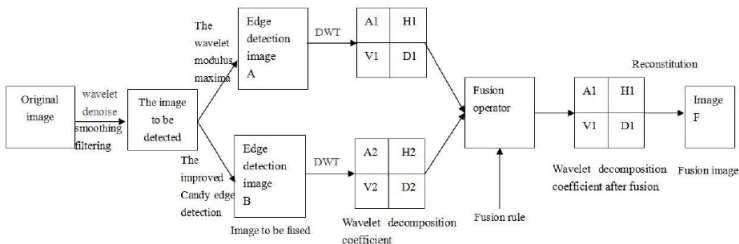
Block diagram

Algorithms

Canny Transform
Skeletonization
Machine Learning

Execution

Initial setup
Tools
Dataset



Skeletonization/Thinning

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Literature
survey

Block
diagram

Algorithms

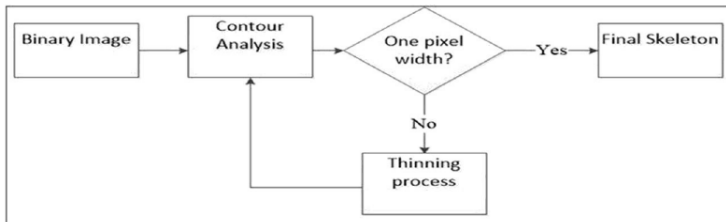
Canny
Transform

Skeletonization

Machine
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Tools
Dataset



• Decision tree learning

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

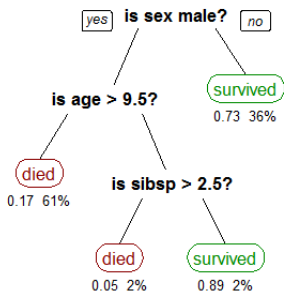


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Literature
survey

Block
diagram

Algorithms
Canny
Transform
Skeletonization
Machine
Learning

Execution

Initial setup
Tools
Dataset

Execution

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Literature survey

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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Block diagram

Algorithms

Canny
Transform
Skeletonization
Machine
Learning

Execution

Initial setup
Tools
Dataset

- Android Studio
- Anaconda
- OpenCV

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Canny
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Tools
Dataset

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