Image Edge detection using ACO

Image Edge detection using ACO is a software program that provides a web-based implementation of an adapted Ant System algorithm proposed by Liu and Fang (2015). With some enhancements to the process, it is able to process perfectly most images - from clear to noisy. It has an accessible interface and is easy to use.

The online version is hosted by GitHub Pages and can be found here.

General information

The main source code of the system lives under the `src` folder. However, the compiled scripts by webpack are under the `docs` folder. To inspect the written source code, please review the files under `src`.

The main files are:

- `app.js`
- `app.scss`
- `index.html`

Rendering project in browser locally

There are two ways of rendering this project in the web browser:

1. Open up compiled HTML file
2. Run using NPM

To open up the compiled HTMl file, simply navigate to the `docs` folder of the project and open `index.html` with the preffered browser.

To run the project using NPM, please follow the instructions below:

NPM set up

The project uses the standard node package manager - NPM. Therefore NPM must be set up on the working machine to run the local server (please see NPM Get Started).

Assuming NPM is installed, navigate to the root folder of the project in the comand line interface and run:

```
npm install
```

Running Local Server

To run the local server, navigate to the project's root folder and execute the start command:

```
npm run start
```

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