

1. Implementation of an Object Detection Algorithm for Classification of Media Content

- Detection of diverse objects within an image or video
- Classification of objects, e.g. tree, wood, forest, sky, human, animal, ...
- Evaluation of implementation
- Knowledge: Programming Languages such as C/C++, Python, Java
- Utilization of frameworks such as Gstreamer, OpenCV, Torch, Caffe, etc.

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2. Implementation and Extension of an Online Video Editor

- Editor to manage video and audio processing
- Utilization and extension of an online editor (moviemasher)
- Evaluation of implementation
- Knowledge: Programming Languages such as C/C++, Javascript
- Knowledge: Operating System Linux

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3. Optimization of an Existing Software Tool for Sorting Videos and Images

- Optimization of Optical Character Recognition (OCR) within videos
- Extending graphical user interface
- Optimize performance
- Evaluation of implementation
- Knowledge: Programming Languages such as C/C++ and Visual C
- Utilization of frameworks such as Gstreamer, OpenCV, Tesseract, etc.

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