Overview of the module

Adrian F. Clark `<alien@essex.ac.uk>`
CSEE, University of Essex

Module structure

Weekly lectures in which I explain how things work and so on

Weekly laboratories in which you learn to solve vision tasks by working through a series of exercises

Both consist of two-hour sessions

There is support for both on Moodle in the form of quizzes

The lectures

I explain how techniques were developed and understand how they work

I'll also give demonstrations of and what the techniques do to images how they are used in practice

From time to time, I'll also work through techniques manually

The laboratories

The laboratory exercises are centred around a software package called **OpenCV**, widely used in both industry and academe

OpenCV was intended for real-time processing so sometimes plays fast and loose with algorithms to keep the processing speed up

You will work in Python, partly because it's fast way to connect together OpenCV routines (and also machine learning packages) and partly because that's what is most widely used in industry

Roughly the first half of the laboratory sessions will be spent getting familiar with using OpenCV; then the second half will apply OpenCV to some problems

Assessment

There are two progress tests, mid-way and at the end of the module; each is work 20% of the overall module mark

There is a single examination, worth the remaining 60% of the module mark

Note that the progress tests and exam are different for CE316 and CE866 students!