

Some hints for Friday exam from Joensuu

Jussi Parkkinen

Tuesday

Joensuu location ;-)

Color spectrum and physical basis of it

Relation between shape of a spectrum and the perceived color

Schema of color detection system and its' components

Idea of human visual system

Importance of illuminant spectrum

Reasons why spectrum is needed

Metamerism

Color vision of some other animals

Meaning of wavelength sampling rate of a spectrum

Basic idea of reconstruction of a spectrum from RGB

Basics of spectral image (image structure, pixel, meaning of component image)

WHAT IS COLOR?

Wednesday

Reproduction of spectral color

- by three color components

- on multiprimary display

Spectral image applications

Markku Hauta-Kasari

- Techniques for spectral imaging

- Positive color filter design

- Order of color spectra

The important parts of Markku Hauta-Kasari's lectures are in the following files:

Tuesday

19_Budapest_lectures_22082006

20_Colorfilter_design1

Wednesday

28_Budapest_lect2_pca

29_Spectral_database_search1

31-Spectral_imaging_wednesday