

Joint BM1205 COST Action and NTNU workshop on Hyperspectral imaging in medicine

Hyperspectral imaging (HSI) in medicine is a workshop which will cover basic topics about HSI applied to the medical field. The focus of the workshop will be on HSI background, HSI image processing and light transport modelling in biological tissues. The second day will offer an experimental session at the NTNU hyperspectral laboratories with practical demonstration of HIS techniques. Hyperspektral imaging in the wavelength range 400-2400 nm will be demonstrated. Preprocessing of data and some of the processing techniques presented the first day will be applied to real data from human skin during the lab tour.



WORKSHOP PROGRAM

Tuesday, May 6 2014

13:00 – 14:00 Lunch

14:00 – 15:00 Speaker: Prof. Lise L. Randeberg, IET, NTNU

Topic: Introduction to HSI for medical applications

15:00 – 16:00 Speaker: Lukasz A. Paluchowski, IET, NTNU

Topic: Statistical image processing for HSI

16:00 – 16:45 Speaker: Asgeir Bjørgan, IET, NTNU

Topic: Extraction of optical properties from HSI

16:45 – 17:45 Speaker: Prof. Harald Martens

Topic: Multi-parameter optimization

17:45 – 18:30 Discussion (questions, thoughts, ideas wanted)

18:30 – 20:00 Break

20:00 – Dinner

Wednesday, May 7 2014

10:00 – 12:00 Lab tour and real-life examples

12:00 – 12:30 Break

12:30 – Lunch

There are many hotels available in therefore it should not be too difficult to find a hotel. However, if anyone will need an assistance with booking, do not hesitate to contact us.

The number of attendants will be limited and registration will be closed when the limit of attendants is reached. Please register by email to Matija Milanic before 3rd of May.

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