



Workshop on *Biophotonics Imaging for Diagnostics and Treatment*

Friday, October 6, 2006

IT University
Rued Langgaards Vej 7
2300 København S
Denmark

Program

9:00-10:40 Session I

- 9:00 *Hyperspectral image analysis : Some applications in biotechnology and their prospective solutions*
..... Mark Berman, CSIRO, Australia
- 9:40 *Quantifying composition of human tissues from multispectral images using a model of image formation*
..... Ela Claridge, School of Computer Science, The University of Birmingham, UK
- 10:00 *Multispectral recordings and analysis of psoriasis lesions*
..... Line Clemmensen, IMM, DTU, Denmark
- 10:20 *Creating surface chemistry maps using multispectral vision technology*
..... Jens M. Carstensen, Videometer, Denmark

10:40-11:00 Coffee break

11:00-12:00 Session II

- 11:00 *Optical imaging of the embryonic heart for a better understanding of congenital heart defects*
..... Mesud Yelbuz, Dept. of Pediatric Cardiology and Intensive Care Medicine,
..... Hannover Medical School, Hannover, Germany
- 11:40 *Stereo reconstruction of the epicardium for optical fluorescence imaging*
..... Desmond Chung, Department of Medical Biophysics, University of Toronto, Canada



12:00-13:30 Lunch

13:30-15:10 Session III

- 13:30** *Biomedical applications of terahertz technology*
..... Vincent Wallace, Teraview, UK
- 14:10** *The physical principles of chemical recognition in terahertz spectral imaging*
..... Peter Uhd Jepsen, COM, DTU, DK
- 14:30** *A bidimensional signal processing approach for vesicle trafficking analysis in 3D+T fluorescence videomicroscopy*
..... Ikhlef Bechar, Unité de Mathématiques et Informatique Appliquées,
..... INRA Jouy-en-Josas, France
- 14:50** *Characterization of pre- and postoperative macular holes from retinal OCT images*
..... Jakob Thomadsen, Netcompany IT and Business Consulting, Denmark

15:10-15:30 Coffee

15:30-16:30 Session IV

- 15:30** *Texture and wavelet based lesion classification using color images*
..... Artur Chodorowski, Dept. of Signals and Systems,
..... Chalmers University of Technology, Sweden
- 15:50** *Preliminary clinical results for the in vivo detection of breast cancer using interstitial diffuse optical spectroscopy*
..... Anthony Kim, Sunnybrook Research Institute,
..... Dept of Medical Biophysics, Toronto, Canada
- 16:10** *Optical Coherence Tomography in dermatology*
..... Jakob Thomsen, OPL, Risø National Laboratory, Denmark
- 16:30** *The intrinsic dimension of multispectral images*
..... Erhardt Barth, Institute for neuro- and bioinformatics, University of Lübeck, Germany

16:50 Concluding remarks