http://www.liv.ac.uk/~cmchenke/imagew/

Multidisciplinary Workshop Programme for 28 November 2007

Image Processing Techniques and Applications

Venue: Maths Sciences Building (Precinct Map No 39)

09:00 09:25 Registration + Tea/Coffee09:25 09:30 Prof Andy Cossins: "Introduction / Welcome"

SESSION 1 --- Chair: Prof Andy Cossins, Director of Biocomplexity Institute / Director of LINSET

T1	09:30	10:10	Prof Arvid Lundervold:
			"Mathematics in biomedical imaging – examples from cell imaging,
			brain imaging and kidney imaging"
T2	10:10	10:30	Prof Asoke Nandi:
			"Machine learning and image processing for breast cancer diagnosis"
T3	10:30	10:50	Prof Peter Giblin:
			"Singularity theory and geometry in computer vision"
T4	10:50	11:10	Prof Ke Chen /Mr C Brito /N Chumchob /N Badshah:
			"Variational models for automatic image segmentation
			and registration"
	11:10	11:40	Refreshments

SESSION 2 --- Chair: Prof Peter Giblin, Dept of Mathematical Sciences

T5	11:40	12:20	Prof Alan Nahum:
			"Radiobiologically optimised radiotherapy"
T6	12:20	12:40	Prof Neil Roberts /Dr Laura Parkes:
			"Non-invasive Measurement of Brain Structure, Function,
			Integrity, Connectivity and Metabolism"
T7	12:40	13:00	Dr Colin Baker:
			"State of the art radiotherapy and the need for advanced imaging
			capabilities"
	13:00	13:50	Lunch [Free/online registration before 23 Nov required]

SESSION 3 --- Chair: Prof Ke Chen, Dept of Mathematical Sciences

T8	13:50	14:30	Prof Chris Moore:
			"Image Processing in Measurement Guided radiation Therapy"
T9	14:30	14:50	Dr Hane M Aung /Dr Y Goulermas:
			"An image analysis and measurement system for video-fluoroscopic (vf)
			evaluation of swallowing dysfunctions"
T10	14:50	15:10	Dr Ren Cooper / Dr A Boston / Dr H Boston / Prof Paul Nolan:
			"Gamma-Ray imaging with segmented HPGe detectors"
	15:10	15:40	Refreshments

SESSION 4 --- Chair: Dr Colin Baker, Division of Medical Imaging and Radiotherapy, School of Health Sciences

T11	15:40	16:20	Dr John Kleijne:
			"Fluorescence in Vivo imaging of disease biology"
T12	16:20	16:40	Dr Steve Barrett / Prof Peter Weightman :
			"Spin-offs from image analysis for scanning microscopy"
T13	16:40	17:00	Dr Bernard Diaz / Dr Derek Gould:
			"CRUEL imaging - problems and techniques from the UK CRAIVE project
			for Interventional Radiology"
T14	17:00	17:20	Dr David Spiller / Dr P Gould / Prof M White:
			"Higher throughput multi-parameter time lapse imaging and analysis of
			living cells