

3rd
Nottingham
Image Analysis
Training School



Udine, Italy 23-24 June 2011

It is our great pleasure to announce the program and invite you to the 3rd Nottingham Image Analysis Training School (NITS) to be held at the University of Udine in Italy in June 2011. The NITS event is being organized by the EU COST Action IC0604 "European Telepathology Network", with support from the University of Udine (Italy) and of The University of Nottingham (United Kingdom). A world class faculty will be present to provide training in the use of image analysis in Pathology and there will opportunities to develop collaborative links in an informal and relaxed setting.

Pathology lies at the very centre of disease diagnosis and tissue based research. The advent of high quality scanners and digitization of images has opened up the gateway to a whole series of new and exciting possibilities within both the diagnostic and research fields. The purpose of the training school is to help participants understand the true potential as well as the limitations of computerized image analysis. A mixed format of formal lectures and "hands on" practical session will be used and all participants will be expected to bring a laptop.

NITS is aimed at both Pathologists and Computer Scientists, in order to foster collaboration and cross-fertilization that are fruitful for this highly interdisciplinary field.

Organizers

Vincenzo Della Mea (University of Udine)

Mohammad Ilyas (University of Nottingham)

Marcial García Rojo (Chair, COST Action "European Telepathology Network")

Provisional program

23 June, 2011

- 9 – 10 Introduction – the role of image analysis in Pathology (Marcial Rojo, Ciudad Real Hospital, Spain and Mohammad Ilyas, U.Nottingham, UK)
- 10-10:40 Introduction to digital images (Branimir and Irini Reljin, U.Belgrade, Serbia)
- 10:40-11 Coffee /Tea
- 11-11:30 Basic use of imageJ and loading ImageJ onto laptops – (Vincenzo Della Mea, U.Udine, Italy)
- 11:30-13 Practical session of easy image analysis problems (Vincenzo Della Mea, U.Udine, Italy)
- 13 – 14:15 Light lunch
- 14-15 Image segmentation (Guoping Qiu, U.Nottingham, UK)
- 15-15:40 Case study: automated immunohistochemistry (Chiara Cantaloni, Trento Hospital, Italy)
- 15:40-16 Coffee /Tea
- 16:00 – 18 Practical image processing: noise and basic segmentation (Gabriel Landini, U.Birmingham, UK)

20-23 *The School Dinner*

24 June, 2011

- 09:00 – 10:40 Practical particle analysis and colour image processing (Gabriel Landini, U.Birmingham, UK)
- 10:40 – 11 Coffee /Tea
- 11 – 11:45 Stereology for tumour analysis (Paulette Herlin, U.Caen, France)
- 11:45 – 12:30 Practical session: quantification of numerical density (Philippe Belhomme, U.Caen, France)
- 12:30-13: Case study: SNOMED-CT and digital slides (Stephanie Gehring, U.Ulm, Germany)
- 13-14:15 Light lunch
- 14:15 – 15:30 Practical session: quantification of volume fraction and quality control of image analysis using stereology (Philippe Belhomme, U.Caen, France)
- 15:30-15:50 Coffee /Tea
- 15:50-16:20 Case Study: easy fluorescence quantification (Daniela Cesselli, U.Udine, Italy)
- 16:20-17:30 Image segmentation with ITK (H.Irshad CNRS-Ipal, France and Singapore)

<http://www.eslides.net/nits2011>

Local organizer:
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