International Summer School

3D Modeling in Archaeology and Cultural Heritage 2010

Durham University, UK

17-20 June 2010

Organized by
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JON MILLS – Newcastle University, UK
FABIO REMONDINO – FBK Trento, Italy

OBJECTIVES:
The School aims to bring together young scientists, developers and advanced users from geomatics and related fields of application (photogrammetry, remote sensing, LiDAR, GIS, Cultural Heritage, archaeology, environmental monitoring and mapping) to study and discuss the latest developments in digital recording and 3D modeling of complex objects and sites, with emphasis on those of Cultural Heritage value.

TARGET GROUP OF PARTICIPANTS:
PhD students, young researchers and advanced users of new sensor technologies and methods for digital recording and modeling in environmental and heritage applications.

TECHNICAL PROGRAM:

Thursday, 17 June	
8:30 – 9:15	**Registration**
9:15 – 9:30	**Welcome & Introduction** - *Speakers:* D. Donoghue, J. Mills, F. Remondino
9:30 – 10:30	**Geomatics techniques overview for Cultural Heritage** - *Lecturer:* J. Mills (Newcastle University, UK)
10:30 – 11:00	**Coffee break**
11:00 – 12:45	**Airborne LiDAR technology and applications** - *Lecturer:* R. Bennett (Bournemouth University, UK)

12:45 - 14:00	**Lunch break**
14:00 - 16:00	**Lab 1 – LiDAR data processing** - *Lecturer:* R. Bennett (Bournemouth University, UK)
16:00– 16:30	**Coffee break**
16:30 – 18:00	**Lab 1 – LiDAR data processing** - *Lecturer:* R. Bennett (Bournemouth University, UK)
18:30	**Welcome party**
Friday, 18 June	
9:00 – 11:00	**Photogrammetry – theory and applications** - *Lecturer:* F. Remondino (FBK Trento, Italy)
11:00 – 11:30	**Coffee break**
11:30 – 13:00	**Multispectral imaging for Cultural Heritage** - *Lecturer:* D. Donoghue (Durham University, UK)
13:00 – 14:30	**Lunch break**
14:30 – 16:00	**Lab 2 – Satellite imagery for Cultural Heritage** - *Lecturer:* N. Galiatsatos, T. Wilkinson (Durham University, UK)
16:00 – 16:30	**Coffee break**
16:30 – 18:00	**Data archiving for Cultural Heritage** - *Lecturer:* K. Niven (Archeology Data Service, UK)
Saturday, 19, June	
9:00 – 11:00	**Lab 3 – 3D reconstruction from images** - *Lecturer:* P. Bryan (English Heritage, UK)
11:00 – 11:30	**Coffee break**
11:30 – 13:00	**Lab 3 – 3D reconstruction from images** - *Lecturer:* P. Bryan (English Heritage, UK)
13:00 – 14:30	**Lunch break**
14:30 – 16:00	**Terrestrial optical active sensors – theory and applications** - *Lecturer:* F. Remondino (FBK Trento, Italy)
16:00 – 16:30	**Coffee break**
16:30 – 17:15	**GPS in the heritage field** - *Lecturer:* S. Campana (University of Siena, Italy)
17:15 – 18:00	**Sensors and data integration – Case studies** - *Lecturer:* F. Remondino (FBK Trento, Italy)

19:30	**Social dinner**
Sunday, 20 June	
9:00 – 11:00	**Lab 4 – Terrestrial laser scanning** – *Lecturer:* P. Miller (Newcastle University, UK) , F. Remondino (FBK Trento, Italy)
11:00 – 11:30	**Coffee break**
11:30 – 13:00	**Lab 4 – Terrestrial laser scanning** – *Lecturer:* P. Miller (Newcastle University, UK), F. Remondino (FBK Trento, Italy)
13:00 – 14:30	**Lunch break**
14:15 – 16:00	**Lab 5 - GIS in Cultural Heritage** - *Lecturer:* D. Powlesland (Leeds University, UK)
16:00 – 16:30	**Coffee break**
16:30 – 18:00	**Lab 5 - GIS in Cultural Heritage** - *Lecturer:* D. Powlesland (Leeds University, UK)
18:00	**Panel discussion and conclusion**

LOCATION:
The school will be held in the Geography Department of the Durham University.

FEE:
The registration fee of the school is **250 £** and it includes the participation to labs and theoretical lectures, the material of the lectures, the welcome party and the social dinner of the event.

REGISTRATION:
The deadline for the registration is **May 2nd, 2010**. Please send an email to remondino@fbk.eu with a CV in attachment. The selection of the participants will be based on the CV and on the criteria *first-come first-serve*.

ACCOMODATIONS:

We have reserved some rooms at special price for the participants of the summer school in the Business School and in the College of Durham. For more information please contact Freda Denby, Freda.Denby@durham.ac.uk