

International Summer School

3D Modeling in Archaeology and Cultural Heritage 2009

Trento, 15-18 June 2009

Sunday 14 June	
18:00 – 20:00	Registration
Monday, 15 June	
8:00 – 9:00	Registration
9:00 – 9:30	Welcome – Introduction (Motivation for the Summer School, overview of contents, logistics) <i>Speakers:</i> F. Remondino, A. Gruen, S. Campana
9:30 – 10:30	3D for Archaeology and Cultural Heritage - <i>Lecturer:</i> S. Campana, Univ. of Siena, Italy
10:30 – 11:00	Coffee break
11:00 – 12:30	Satellite and aerial sensors (overview, platforms, image quality, sensor and trajectory modeling, accuracy expectations, applications) - <i>Lecturer:</i> A. Gruen, ETH Zurich, Switzerland
12:30 - 14:00	Lunch break
14:00 - 15:30	UAV demo flight - <i>Lecturer:</i> H. Eisenbeiss, ETH Zurich, Switzerland
15:30 - 16:30	UAV photogrammetry (sensors, principles, geo-referencing, product generation) - <i>Lecturer:</i> H. Eisenbeiss, ETH Zurich, Switzerland
16:30 – 17:00	Coffee break
17:00 – 18:00	Aerial survey and photo-interpretation - <i>Lecturer:</i> S. Campana, Univ. of Siena, Italy
18:30	Welcome party
Tuesday, 16 June	
9:00 – 10:30	Terrestrial photogrammetry (overview, sensor modeling, network design, orientation, calibration) <i>Lecturer:</i> F. Remondino, FBK Trento
10:30 – 11:00	Coffee break
11:00 – 13:00	Photo Lab (image pre-processing, classification and monoplottting) - <i>Lecturer:</i> M. Sauerbier, ETH Zurich, Switzerland
13:00 – 14:30	Lunch break
14:30 – 16:00	Photo Lab (camera calibration) - <i>Lecturer:</i> F. Remondino and A. Rizzi, FBK Trento, Italy
16:00 – 16:30	Coffee break
16:30 – 18:30	Photo Lab (object reconstruction) <i>Lecturer:</i> F. Remondino and A. Rizzi, FBK Trento, Italy

Wednesday, 17 June	
9:00-11:00	LiDAR technology and applications - <i>Lecturer:</i> E.. Baltsavias, ETH Zurich, Switzerland
11:00-11:30	Coffee break
11:30-13:00	Scanning on site and case studies
13:00-14:30	Lunch break
14:30-23:00	Excursion
Thursday, 18 June	
9:00 – 11:00	Terrestrial active sensing (laser scanners, structured light systems) - <i>Lecturer:</i> T. Kersten, HafenCity University Hamburg, Germany
11:00 – 11:30	Coffee break
11:30 – 13:00	Terrestrial laser scanner demos (range data registration, geo-referencing, segmentation, filtering, object reconstruction) - <i>Lecturer:</i> T. Kersten, HafenCity University Hamburg, Germany
13:00 - 14:30	Lunch break
14:30 – 16:00	Terrestrial laser scanner lab (range data registration and editing) - <i>Lecturer:</i> T. Kersten, HafenCity University Hamburg, Germany; A. Rizzi, FBK Trento, Italy
16:00 – 16:30	Coffee break
16:30 – 18:00	GIS in Cultural Heritage - <i>Lecturer:</i> M. Sauerbier, ETH Zurich, Switzerland
18:00	Panel discussion and conclusion