

Workshop on Remote Sensing and GIS: Techniques and Applications

November 25 - 28, 2006

Kuwait Foundation for the Advancement of Sciences
(KFAS)

Objectives

1. The transfer of Know-how in the fields of Remote Sensing and GIS.
2. Promote the new developments in remote sensing technologies such as Interferometric and polarimetric SAR, GPS, hyperspectral imaging and new advances in GIS techniques for vital applications in the Arab region.
3. Utilization of remote sensing and GIS to support the decision/policy makers, planners and researchers in the national sustainable development programs.
4. Crystallize the future trends for the vital applications of remote sensing and GIS to the Arab region.

Themes

1. Advanced remote sensing and GIS techniques for sustainable developments.
2. Spatial Decision Support Systems (SDSS) and sustainable developments.
3. Synthetic Aperture Radar (SAR) and Interferometric SAR.
4. Urban remote sensing.
5. Remote sensing and GIS applications: Disaster Management, Environmental Planning, Monitoring, Change Detection, EIA, ICZM, Desertification.
6. Emerging Technologies for Remote Sensing and GIS.

Program

Saturday, 25 November

Opening Ceremony	9:00 – 9:30	Welcoming remarks by Prof. Ali Al-Shamlan and Prof. Malek Hussain
Break	9:30 – 9:45	
Session 1	Chair: Prof. Malek Hussain	
Tutorial 1	9:45 – 11:00	Dr. F. Ulaby, <i>Principles of Remote Sensing</i>
Tutorial 2	11:00 – 12:00	Dr. J. Kellndorfer, <i>Principles and Trends in GIS</i>
Lunch	12:00 – 1:00	
Session 2	Chair: Dr. Adel Qabazard	
Tutorial 3	1:00 – 2:00	Dr. R. Harris, <i>Remote Sensing and GIS for Sustainable Development: Global and Local Scales</i>
Tutorial 4	2:00 – 3:15	Dr. M.Sultan, <i>Applications of Remote Sensing and GIS in Groundwater Exploration</i>
Break	3:15 – 3:30	
Session 3	Chair: Prof. Ray Harris	
Presentation 1	3:30 – 4:00	Drs. M. Edeid, A.Hassan, N. Donia, A.Abdel-Sattar, and S. Abdel-Wahab, <i>Prediction of Malaria Risk Using Remote Sensing and GIS Techniques</i>
Presentation 2	4:00 – 4:30	Drs. M. Ebrahim and A. Mohammad, <i>Data Quality management in the Combined GIS-Remote Sensing Environmental Application</i>
Presentation 3	4:30 – 5:00	Dr. F. Al-Douseri, <i>Terahertz Remote Sensing</i>
Sunday, 26 November		

Session 4	Chair: Dr. Hala Al-Jassar	
Tutorial 5	9:00 – 10:15	Dr. F. Ulaby, <i>Understanding Earth System dynamics</i>
Tutorial 6	10:15 – 11:15	Dr. K. Rao, <i>SAR Interferometry and Applications</i>
Break	11:15 – 11:30	
Presentation 4	11:30 – 12:00	Drs. T. El-Damaty and E. Ghanem, <i>Comparison Study Between Global Satellite Navigation Systems: GPS, GLONASS, GALILEO</i>
Lunch	12:00 – 1:00	
Session 5	Chair: Prof. Mohamed Sultan	
Tutorial 7	1:00 – 2:15	Dr. H. El-Gamily, <i>Role of GIS and Remote Sensing in Sustainable Development</i>
Tutorial 8	2:15 – 3:15	Dr. P. Petrove, <i>Regional Early Warning Environmental Monitoring System Using Satellite Remote Sensing</i>
Break	3:15 - 3:30	
Session 6	Chair: Dr. Peter Petrov	
Presentation 5	3:30 – 4:00	Dr. F. Al-Anzi, <i>Semiautomatic Transliteration System Tool from Standard Arabic to Latin Names with Applications in GIS and Map Generation</i>
Presentation 6	4:00 – 4:30	Dr. H. Ali, E.Malik, X. Augussea, and E. Eljak, <i>Mapping the Gadambalyia Schemes Plots Using Remote Sensing and GIS</i>
	4:30 – 5:00	Response to Questions
Monday, 27 November		
Session 7	Chair: Dr. Hamdy El-Gamily	
Tutorial 9	9:00 – 10:15	Dr. M. Sultan, <i>Web Based GIS: The Tethys Database</i>
Break	10:15 – 10:30	
Tutorial 10	10:30 – 11: 45	Dr. R. Harris, <i>Remote Sensing and GIS for Change Detection and Disaster Management</i>
	11:45 – 12:15	Response to Questions
Lunch	12:15– 5:00	
and Tour of KISR		
Tuesday, 28 November		
Session 8	Chair: Dr. K. Rao	
Tutorial 11	9:00 – 10:15	Dr. F. Ulaby, <i>Global Change: How Radar Connects to Carbon Economics</i>
Tutorial 12	10:15 – 11:15	Dr. M. Hussain, <i>Principles and Applications of Ultra -Wideband Radar</i>
Break	11:15 – 11:30	
Tutorial 13	11:30 – 12:30	Dr. J. Kellndorfer, <i>Integration of Remote Sensing with GIS</i>
Panel	12:30 – 1:00	Response to Questions
Closing Ceremony and Lunch	1:00 – 3:00	Mr. Adnan A. Al-Abdulmuhsen

Members of the Scientific Committee will moderate the daily sessions

Scientific Committee

1. Malek G. Hussain, Chairman
2. Hala Khalid Ahmed Al - Jassar
3. Hamdy El-Jamily
4. Adel Qabazard
5. Bassam Kattaa

Scientific Advisor and Lecturers

1. Fawwaz T. Ulaby, Advisor
2. Mohamed Sultan
3. Josef M. Kellndorfer
4. Ray Harris
5. K. S. Rao
6. Peter Petrov
7. Hamdy El-Jamily