

Selected Publications & Presentations

- 1- Mahmoud M. ALBATTAH, 2009, "Landslides Mechanical behavior Study and Analysis Using Geodetic Observations" **Advanced Technologies** " SBN 978-953-7619-XX "
- 2- Mahmoud M. ALBATTAH, 2008, "Optimization of The Characteristic Straight Line Method by a "Best Estimate" of Observed Normal Orthometric Elevation Differences" **International Journal of Computer, Information, and System Science, and Engineering Technology**" Volume 2, Number 2, Spring 2008
- 3- Mahmoud M. ALBATTAH, 2008, "The Characteristic Straight Line Method for Soil Displacement Monitoring", **Proceedings Of World Academy Of Science, Engineering And Technology** Volume 30 July 2008 ISSN 1307-6884
- 4- Mahmoud M. ALBATTAH, 2004, " Accuracy Assessment of Photogrammetric Triangulation with and without the Integration of Absolute GPS-Inertial Measurements", **Dirasat : Engineering Sciences**, Vol. 31, No 1, pp 126-135
- 5- Mahmoud M. ALBATTAH, 2004, " Use of the Characteristic Circle Method to Improve the Geodetic Control in Terrain Deformation Studies ", **Dirasat : Engineering Sciences**, Vol. 31, No 1, pp. 27-34.
- 6- Mahmoud M. ALBATTAH, 2003, "Landslide Monitoring Using Precise Leveling Observations ", **Survey Review** , Vol. 37, 288
- 7- Mahmoud M. ALBATTAH, and H. Kharabsheh, 2000, " Topographic and Satellite Information for Preliminary Route Location ", **Photogrammetric Record** : 16 (96) pp 987-996.
- 8- Mahmoud M. ALBATTAH, 2004, " Improving the Reliability of DTMs Generated from High Resolution Satellite Imagery by Enhancing the Automatic Stereoscopic Matching ", **Mu'tah Lil-Buhuth wad-Dirasat** : Vol. 19, No 2, pp. 169-182.
- 9- Mahmoud M. ALBATTAH, 2000, " Possibilities Offered by SPOT Satellite Remote Sensing Data for GIS Feeding and Thematic Cartography ", **The International Conference On Geoenvironment 2000, Muscat, 4-7 March, 2000.**
- 10- Mahmoud M. ALBATTAH, 2003, " Parametric Equations of Vehicle Time-Space Trajectories in Traffic Flow Monitoring Using Dynamic Photogrammetry ", **Dirasat : Engineering Sciences**, Vol. 30, No 2, pp. 249-257.
- 11- Mahmoud M. ALBATTAH, 1999, "*Analog Stereorestitution of Spatial Spot Imagery*", **Dirasat** : Natural and Engineering Sciences, Vol. 26, No 1.

- 12-** Mahmoud M. ALBATTAH, 1997, "*Transformation of Cartographic Coordinates in to Three-Dimensional Coordinates Via a Stereographic Projection. Application in Space Triangulation With SPOT*", *Dirasat : Natural and Engineering Sciences*, Vol. 24, No 3, pp. 642-651.
- 13-** Mahmoud M. ALBATTAH, 1997, "*Correction of The Atmospheric Refraction Effect in The Case of Spatial SPOT Imagery*", *C.R. de L'Academie Des Sciences Française (French Academy of Sciences)* , Vol. 324, Series II a, pp. 173-179. (In French with Abridged English Version)
- 14-** Mahmoud M. ALBATTAH, 1997, "*Study of the Impact of Daylight Saving Time on the Energy Preservation in Jordan and Neighboring Countries* ", *Dirasat : Natural and Engineering Sciences*, Vol. 22 B, No 6, pp. 219-235. (In Arabic, English Abstract).
- 15-** HOTTIER Ph., Mahmoud M. ALBATTAH, 1990, "*SPOT and the Analytical Photogrammetry: Solution For Some Problems*", *S.F.P.T*, Vol. 117, No 1990-1, pp. 10-18. (Bulletin of the French Society of Photogrammetry and Remote Sensing, In French).
- 16-** Mahmoud M. ALBATTAH, 1997, " *Study of Traffic Kinematics by Using Terrestrial Stereophotogrammetry*", **First Jordanian Conference on Traffic Engineering and Environment**, Amman, Jordan, 13-15 May 1997.
- 17-** Mahmoud M. ALBATTAH, 1988, "*SPOT imagery and some problems in analytical photogrammetry*" a technical report (pp. 150), IGN-France (2, Ave.Pasteur, 94160 St. Mandé, Paris).
- 18-** Mahmoud M. ALBATTAH, Hottier Ph.,1991, "*Computation of the spatial image coordinates in less than 60 elementary operations without the voluminous auxiliary data required in the current techniques*", *S.F.P.T*, Vol. 123, No 1991, pp 19-23
- 19-** Mahmoud M. ALBATTAH, Hottier Ph.,1991, "*Transformation of a stereo pair of SPOT images into a stereo pair of epipolar images allowing all stereo plotting techniques without terrain-relief deformation* ",*S.F.P.T*, Vol.123, No1991, pp 13-19

Currently Funded Research

- 1-** Rainwater Harvesting in Semi-Arid Areas in the Middle-East. Case Study: The Campus of the University of Jordan
- 2-** Photogrammetry and Topographic Information for Urban Growth and Change In Western Amman
- 3-** Topometric monitoring of Landslides using precise leveling techniques

Selected Seminars, Lectures & Conferences

- 1- “Precise Topometry For Landslides Monitoring”, International Conference of the Geology of the Arab World”, Cairo, 2003
- 2- Cadastral Registration Systems: Comparative Study and Analysis, Toward a 3D Real Estate Objects Representation, Dead-Sea, Jordan, 2005
- 3- “Possibilities Offered By SPOT Satellite Remote Sensing Data For GIS Feeding and Thematic Cartography”, International Conference on Geoenvironment 2000 (ICG2000), Muscat, 4-7 March 2000.
- 4- “Space-triangulation in France”: presented at the seminar Spatial Cartography, Invited by the French Center for Space Studies (CNES/Toulouse/France, Sept. 1990).
- 5- “Advantages and possibilities of the GPS-2000 (Global Positioning System)”, Invited by the Ministry of Public Work and Housing, Amman-Jordan (1992).
- 6- “GPS and Topographic Surveying”, Invited by the Jordanian Engineers Association (1993).
- 7- “Precise Topometry For Landslides Monitoring”, International Conference of the Geology of the Arab World”, Cairo, 2003
- 8- Cadastral Registration Systems: Comparative Study and Analysis, Toward a 3D Real Estate Objects Representation, Dead-Sea, Jordan, 2005

Under Preparation

- 1- The Accuracy of a DTM (Digital Terrain Model) in Different Stereoscopic Configurations Using a High Geometric Resolution (HGR) Sensor.
- 2- Heterogeneous adjustment of the different sets of space-observations.
- 3- Photogrammetry and Topographic Information for Urban Growth and Change In Western Amman