
Professor Mahmoud ALBATTAH

Curriculum Vitae

Brief Profile



Mahmoud M. S. ALBATTAH, obtained a BSc in Geomatics Engineering/ Civil Engineering from ENSG Paris- France 1985, and an MSc Civil Engineering / Spatial Geodesy and Spatial Techniques from the University of Paris VI, and a PhD in Civil Engineering/ Spatial Geodesy and Spatial Techniques from the University of Paris VI and Paris' Astronomical Observatory. He then worked at the ENSG/Paris as Assistant Professor and Research Fellow on Satellite Geodetic Techniques.

Since 26 Sept. 2018 to present, Vice-President at Al-Hussein Bin Talal University (AHU), Maan, Jordan, Member of the University Council, Member of the Dean Council, Member of Scientific Research Council, Member of the Advisory Board of Al-Hussein Bin Talal University Journal, Head of the Higher Advisory Council of Maan Developing Area and AHU. Head of 10 Committees at AHU During 1990-1992 Prof. ALBATTAH led a team to develop the Remote Sensing Satellite Program SPOT 5 at the National French Space Agency (CNES). In 1992 he was appointed as an Assistant professor at the University of Jordan, Civil Engineering Department/ Faculty of Engineering and Technology. In 2005, he was promoted to a full Professor, Chair of Civil Engineering Department, and member of the more than 5 central committees at the University of Jordan. Prof. Albattah is the co-author of the Jordanian Civil Engineering Standards and Codes which is published by the Ministry of Public Works and Housing (Jordan). He was a member of the Project Board to develop the University of Jordan at Aqaba. He has been on faculty and taught at 6 universities. He has served also on the School of Engineering ENSG -Paris, Albalqa Applies University, Al-Isra private University (Jordan), Petra Private University (Jordan), Jordan University of Science & Technology (JUST), Arab Open University, Private Applied Science University (Jordan). From 2010 to 2012, Dean of Engineering at Fahad Bin Sultan University- Saudi Arabia. Chair of the Civil Engineering Department, The University of Jordan. Currently he is working as Vice-Dean for Academic Affairs Faculty of Graduate Studies, The University of Jordan the Professor ALBATTAH is the author and co-author of over 55 publications in international peer reviewed, refereed journals and proceedings of international conferences in Civil and Geomatics Engineering. He is the inventor of patents relating Satellite Remote Sensing and Geodetic Spatial Techniques

Personal Information

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Twitter : @ms_albattah

Degrees

PhD, Civil Engineering/ Geodetic Engineering & Space Techniques, University Paris 6 & the College of Geodetic Engineering “*Ecole Nationale des Sciences Géographiques*” (ENSG) graduated with Honors (right honorable), Paris, 1989.

MSc. Civil Engineering/ Geodetic Engineering & Space Techniques, University of Paris 6 & ENSG, Paris, 1986.

BSc, Civil Engineering/ Geomatics Engineering & Surveying, ENSG, Paris, 1985.

Mathématiques Supérieures Mathématiques Spéciales French System for Schools of Engineering, 1982.

Positions

Vice-President for Administrative and Financial Affairs, Al-Hussein Bin Talal University (AHU), Maan, Jordan

University Council Member, Al-Hussein Bin Talal University (AHU), Maan, Jordan

Deans Council Member, Al-Hussein Bin Talal University (AHU), Maan, Jordan

Scientific Research Council Member, Al-Hussein Bin Talal University (AHU), Maan, Jordan

Head of the Central committee for “Tenders and Companies”, Al-Hussein Bin Talal University (AHU), Maan, Jordan

Member of Jordanian Universities Net Higher Committee

Head of the Higher Manager Committee, Al-Hussein Bin Talal University (AHU), and Maan Developing Area Company, Maan, Jordan

Head of the Faculty Appointments and Promotion Committee, Al-Hussein Bin Talal University (AHU), and Maan Developing Area Company, Maan, Jordan

Head of the Faculty’s Appellate Disciplinary Council, Al-Hussein Bin Talal University (AHU), and Maan Developing Area Company, Maan, Jordan

Head of the Personnel Affairs committee, Al-Hussein Bin Talal University (AHU), Maan, Jordan

Head of the Hiring and allowance Affairs committee, Al-Hussein Bin Talal University (AHU), Maan, Jordan

Head of the Faculty Housing Affairs committee, Al-Hussein Bin Talal University (AHU), Maan, Jordan

Head of the Electronic Working Hours Committee, Al-Hussein Bin Talal University (AHU), Maan, Jordan.

Head of the Higher Coordination Committee Al-Husein Bin Talal University & Maan Developing Company, Al-Hussein Bin Talal University (AHU), Maan, Jordan.

University Council Member, School of Graduate Studies (JUSGS), *The University of Jordan, Hashemite Kingdom Of Jordan September 2013 – 2015*

Vice-Dean, School of Graduate Studies (JUSGS), *The University of Jordan, Hashemite Kingdom Of Jordan September 2013 – 2015*

Head of Scientific Research Council, School of Graduate Studies (JUSGS), *The University of Jordan, Hashemite Kingdom Of Jordan September 2013 – 2015*

Head of the Graduate Studies Council, School of Graduate Studies (JUSGS), *The University of Jordan, Hashemite Kingdom Of Jordan September 2013 – 2015*

Head of the Scientific Research Ethics Council, School of Graduate Studies (JUSGS), *The University of Jordan, Hashemite Kingdom Of Jordan September 2013 – 2015*

Dean, School of Engineering, Fahad Bin Sultan University, *Kingdom Of Saudi Arabia (FBSU) September 2010 – 2012*

University Council Member, Fahad Bin Sultan University, *Kingdom Of Saudi Arabia (FBSU) September 2010 – 2012*

Deans Council Member, Fahad Bin Sultan University, *Kingdom Of Saudi Arabia (FBSU) September 2010 – 2012*

Full professor, Department of Civil Engineering, *University of Jordan, Feb. 7th 2005*

Chair, Civil Engineering Department, Faculty of Engineering and Technology, University of Jordan

Member, Central committee for “Tenders and Companies”, The University of Jordan

Member, Faculty Council, Faculty of engineering, The University of Jordan

Member, Campus Advisory Committee. The University of Jordan

Member, Water Harvesting Advisory Committee. The University of Jordan

Head/ division of “*Highway Engineering, Engineering, Project Management and Surveying*”.

Officer/ B.Sc. graduation projects in civil engineering

Associate Professor, Department of Civil Engineering, *University of Jordan* (www.ju.edu.jo)

Associate Professor, Department of Surveying and Geomatics Engineering, *Al-Balqa Applied University/Jordan* (www.bau.edu.jo), 2001

Associate Professor, Department of Civil Engineering, *University of Jordan*, 1999

Assistant Professor, Department of Civil Engineering, *University of Jordan*, 1994

Full Time Lecturer, Department of Civil Engineering, *University of Jordan*, 1992- 1994

Assistant Professor, The ENSG (School of Engineering) The French IGN, (www.ensg.ign.fr), 1990-1992, Paris, France

Investigator, Photogrammetric Stereorestitution of Satellite Remote Sensing Images (RESPA project), The French IGN, (www.ensg.ign.fr), The French Space Studies Centre (CNES: Centre National d’Etudes Spatiales) 1990- 1992

Courses Taught

1-Undergraduate Level:

- Engineering Thermodynamics (*FBSU, Saudi Arabia, AUB*)
- Engineering Statics (*FBSU, Saudi Arabia*)
- Engineering Graphics (*FBSU, Saudi Arabia*)
- Spatial Measurements (*FBSU, Saudi Arabia, AUB*)
- *Introduction To Geographic Information System*(*FBSU, Saudi Arabia, AUB*)
- Satellite Positioning and GPS (*BAU, Jordan*)
- *Space Geodesy & GPS*
- *Geometric Geodesy*
- Technical Writing , Faculty of Engineering (*JU, Jordan*)
- Fundamentals of Geodesy (*BAU, Jordan*)
- *Space Geodesy & GPS* (*BAU, Jordan*)
- *Geometric Geodesy* (*BAU, Jordan*)
- Satellite Positioning (*BAU, Jordan*)
- Land Surveying (*BAU, Jordan*)
- Aerial Surveying (*BAU, Jordan*)
- Surveying for Civil Engineering (*JU, Jordan*)
- Surveying for Architect Engineering (*JU, Jordan*)
- Surveying Lab (*JU, Jordan*)
- Surveying II for Civil Engineering + Laboratory (*JU, Jordan*)

- Numerical Methods for Engineers (JU, Jordan)
- Advanced Surveying (JU, Jordan)
- Photogrammetry and Remote Sensing for Civil Engineering (JU, Jordan)
- Remote Sensing and Aerial Surveying Laboratory (JU, Jordan)
- Graduation Project I in Civil Engineering (JU, Jordan)
- Graduation Project II in Civil Engineering (JU, Jordan)
- Principles of Remote Sensing (ENSG/IGN, France)
- Space Geodesy (ENSG/IGN, France)
- Space Remote Sensing and Photogrammetry (ENSG/IGN, France)
- Computer Aided Cartography (ENSG/IGN, France)
- Analytical Photogrammetry and Classification (ENSG/IGN, France)
- Geographic Information Systems (GIS) (ENSG/IGN, France)
- Thermodynamics (University of Paris 6, France)
- Remote Sensing of Environment (University of Paris 6, France)

2-Graduate Level:

- Advanced Photogrammetry for Civil Engineering (JU, Jordan)
- Road Route Surveying (JU, Jordan)
- Advanced Remote Sensing (JU, Jordan)
- Advanced Numerical Methods for Engineers (Faculty of Engineering, JU)
- Analytical Photogrammetry (ENSG/IGN, France)
- Remote Sensing and GIS (ENSG/IGN, France)
- Digital Image Processing (ENSG/IGN, France)

3-Thesis Committees and Ph.D. Supervisory Committees:

Chaired more than 50 GP Thesis Committees, 25 MSc and 3 Ph.D. Supervisory Committees since 1992.

Administrative Position, Councils, Committees

Chair, Academic Committee, Faculty of Graduate Studies, The University of Jordan

Chair, Curricula Committee, The University of Jordan

Chair, Scientific Research Committee, Civil Engineering Department, Faculty of Engineering and Technology, University of Jordan

Chair, ABET Committee, Civil Engineering Department, Faculty of Engineering and Technology, University of Jordan

Chair, Scientific Research Committee, Civil Engineering Department, Faculty of Engineering and Technology, University of Jordan

Chair, Curricula Committee, Faculty of Engineering and Technology, University of Jordan

Member of the University Council (member), Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

Chair of the Scholl Of Engineering Council , School of Engineering, Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

University Academic committee (member), Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

University Research board (member), Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

University Disciplinary committee (member), Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

University Administrative committee (member), Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

Quality Assurance/ Quality Control and Institutional research committee (member), Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

Graduation committee (member), Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

University Catalog Committee (member), Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

Transfer of Study Plan Committee (member), Fahad Bin Sultan University, *Kingdom Of Saudi Arabia*

Chair, Civil Engineering Department, Faculty of Engineering and Technology, University of Jordan

Head/ division of “*Highway Engineering, Engineering, Project Management and Surveying*”.

Faculty Council, Faculty of Engineering and Technology, University of Jordan

Chair, University of Jordan, Water Harvest committee

Member, University of Jordan, Electrical power preservation committee

Chair, Civil Engineering Department, ABET Committee

Member, Faculty of Engineering and Technology, ABET committee

Member, University of Jordan, “Feasibility study of the wind power use at the University of Jordan” (committee)

Member, University of Jordan, Central Committee for Trends and Companies

Member, University of Jordan, Campus Central Committee

Theses Supervising (MSc.)

- 1-** Effectiveness Of The Bus Rapid Transit System (Brt) In Reducing Traffic Congestion In Amman, Fahad Khalaf Alzuerat, July, 2020
- 2-** Potential of GIS and Dynamic Photogrammetry for Kinematic Parameters Analysis at Urban Road Intersection, Rinad Groom, July, 2020
- 3-** Improving Tariff System for Public Transit Buses in Al-Tafilah Governorate by evaluating and comparing the different fare models, Wasan Nayef Alshwabkeh, July, 2020
- 4-** Evaluation of the threat of landslides on highway and traffic safety assessment based on geomatic techniques, case study: Amman- Irbid highway, Ghayda Samih Al Rawashdeh, April 2019
- 5-** The Relationship Between Organizational Culture And Projects' Performance: Case Study Of Jordanian Contracting Companies, Balqis H. Sboul, 2016
- 6-** The Potential of Combined Use of High Resolution Remote Sensing Satellite Data with Topographic Information for Optimizing Subsequent Route Location Studies. Application: Amman Ring Road", (PS) by Hani Alkharabsheh, MSc., April 1998, 171 pp
- 7-** Calibration of the Precise Gravity Techniques in Locating Cavities: Application on Different Geological Environments", (PS) by Atif Mashakbeh, MSc., December 1996, 153 pp
- 8-** A Study of Systematic Distortions of High Geometric Resolution Satellite Remote Sensing Data", (PS) by Basheer Alkaisi, MSc., August 1999, 62 pp
- 9-** Metric Terrestrial Photogrammetric Techniques For Deriving Precise Detailed Representation Of Post-Crash Vehicle Geometry In Car Accidents, Maha Khateeb, 2015.
- 10-** GIS – based Mathematical Modeling and Enhancement of Highway Pavement Design, Rana Ziad, 2014
- 11-** Road Traffic Congestion Measurement Video and Stereo Image Matching for Prediction of Traffic Flow in Heterogeneous Condition using Artificial Neural Network, Hayat Alsakarneh, 2016.
- 12-** Precise Remote Sensing and Traffic Flow Information for Urban Transportation Planning In Amman The Optimal Possible Alternatives for AlMedina AlMonarewa Street, Salah Eldeen Elyoussef, 2017
- 13-** Random Parameters Ordered Probit Analysis of Accidents Severity, Sarah Altarabsheh, 2018
- 14-** Cost modeling for light rail and bus rapid transit, Duha Adnan Khalil, 2016
- 15-** Developing Trip Generation rates for private universities in Amman, Wissam Alharaizah, 2017

- 16-** Developing trip generation model for shopping malls in Amman, Rawan Al-Jaloudi, 2017
- 17-** The feasibility and implications of converting the university of Jordan to a car-free campus, Abdel Karim Alammairih, 2017
- 18-** Fitness of Jordan aggregates toughness cleanliness and angularity to superpave, Eslam Alkharabsheh, 2017
- 19-** Crash reduction associated with red light camera and automated speed enforcement in Amman, Bushra AlQatawneh, 2016
- 20-** Comparison of conventional and unconventional 3-legged urban intersection design using microscopic simulation, Mohammad Ammari, 2017
- 21-** Speed Harmonization (design speed vs. operating speed & legal/posted speed), Sora Omari, 2017
- 22-** The Development Of Safety Performance Functions For Roundabouts In Amman, Jordan, Diana Mansour Al-Nabulsi
- 23-** Evaluation of the threat of landslides on highway and traffic safety assessment based on geomatic techniques, case study: Amman- Irbid highway, Ghyda Samih Rawshdeh
- 24-** Improving Tariff System for Public Transit Buses in Tafilah Improving Tariff System for Public Transit Buses in Tafilah, Wessen Shawabkah

Relevant Research & Technical Experience

- 1-** Co-Author of the "Road Routes Surveying Codes" , Ministry of Public Work and Housing/ Jordan
- 2-** Evaluation of serious threats which landslide poses to Amman-Jarash Highway
- 3-** Development of surveying services at municipalities – Ministry of municipal affaires
- 4-** Amman Ring Road : Optimal path selection and road route design using high-tech means and GIS

Scientific Studies & Projects

Jan. 2004- Present: The project "CULTURAL AND ENVIRONMENTAL RESOURCES CARTOGRAPHY AND MONITORING BY IMAGES (C.E.R.C.A.M.I.)

August 2005- Present: The project "Jordan Hedjaz Railway"

Research Projects & Technical Investigations

- Digital Surface Model (DSM) by using Very High Resolution Digital Images (Lab Matis, IGN France)
- Application of Remote Sensing and GIS using High Resolution Digital Images (Lab Matis, IGN France)
- Transformation of High Resolution Satellite Imagery in *Epipolar* Imagery allowing analog and analytical stereo restitution without terrain-relief deformation (IGN France)
- Remote Sensing Stereo restitution of Satellite SPOT images for geographic information systems (*GIS*) feeding (IGN France).
- Digital Processing of Satellite SPOT Images and updating of geographic data (IGN France)
- Evaluation of the accuracy of *DTM*'s (IGN France) Study of the accuracy of the *HRG* (High Geometric Resolution) Push-Broom Sensor (Satellite SPOT5), (IGN France)

Consulting

- **Albalqa University of Applied Sciences**, Salt- Jordan. 1999-present
- **Ministry of education**, National School Mapping project. 2002- present
- **Ministry of Environment**, Jordan.1999 present
- **Ministry of Higher Education**, Amman- Jordan 1996- present
- **Team International**, Amman- Jordan 1996- present
- **Ministry of Energy and Minerals Resources**, Amman- Jordan. 1995-present
- **SPOT Image**, Toulouse, France. 1990-1992
- **Ministry of Public Works and Housing**, Amman- Jordan. 1992-present

Community Service and Committees

- **Ministry of Higher Education**, Curriculums for Polytechnic Colleges
- **Albalqa Applied University**, BSc. Curriculum in Surveying and Geomatics
Engineering
- **University of Jordan**, Global Distance Learning Program, etc...

- **Italy, Jordan, Syria and Lebanon**, CERCAMI Research project
- **French Ministry of National Education & Secondary Pilot School (Jordan) and the Ecole Francaise d'Amman (EFA)**, MESOE project
- **Ministry of Public Works**: Codes and Standards for Highways Surveying and Cadastral Management
- **Ministry of Public Works**: Higher Committee for Civil Engineering & public works

Promotion Committees

- Dr Ghaleb Swees, Associate to full professor
- Dr Radwan Alweshah, Associate to full professor
- Dr Ibrahim Tabsh from the Rank of Assistant Professor to the Rank of Associate Professor
- Associate Professor to Full Professor in Numerical Analysis
- Dr Anis AlOmari : PhD
- Ing. Mahir Tuaimah, MSc
- Dr Ahmed Aljamrah : Associate Prof. B to Associate Prof. A
- Bshar Almomani : MSc
- Dr Anis Shatnawi: Assistant Prof. Cat.B to Assistant Prof.Cat.A

Computer Proficiency

Hardware & Systems : VAX (VMS), IBM and Compatible PC's (MS-DOS), Sun Station (Unix)

Languages : C language, Fortran VMS and RTL library, Basic, Visual C++

Packages: ArcGIS, TRIAS (image processing), TRASTER (Photogrammetric Restitution), GEO (Geodesy), Map, ArcInfo, Windows 2000/Xp, Microsoft Office, AutoCad, Matlab, SPSS, Mathcad, SKIpro (GPS), Surfer, GeoMedia, ERDAS SoftDesk, CogoCad, Skyplot, AXUM,

Developed Software : RESPA (image processing), SPOTSAT (Mathematical Modeling of SPOT imagery), EPIPOLAR (Generation of Epipolar Images), ANRESTIT (analog restitution of space images), CART (Coordinates Transformation), NETADJ (adjustment of geodetic network)

Internet : Good use and command of Internet.

Software development

- RESPA (image processing),
- SPOTSAT (Mathematical Modeling of SPOT imagery),
- EPIPOLAR (Generation of Epipolar Images)
- ANRESTIT (analog restitution of space images),
- CART (Coordinates Transformation),

Laboratories

- 1- Terrestrial Surveying**
- 2- Photogrammetry:** Analog Stereorestitution, Analytical Stereoplotting, Parallax Measurements, etc..
- 3- Geodesy:** Satellite Positioning (GPS), Transformation of Coordinates, Nets adjustment
- 4- Cartography:** Digital Mapping
- 5- Geographic Information System**
- 6- Remote Sensing & Photogrammetry:** Digital Image Processing, Classification
- 7- Close-Range Photogrammetry**

Letters Patents

Letters Patents in Stereophotogrammetric processing of Spatial SPOT imagery (1990)

Professional Affiliation & membership

- 1- French Engineers Association (1985)
- 2- French Photogrammetry and Remote Sensing Society (Member 1985)
- 3- French Topography Society (1986)
- 4- Jordan Engineers Association (1989)
- 5- Canadian Remote Sensing Society, a constituent society of the Canadian Aeronautics and Space Institute (92)

Journal Review

1. Arabian Journal of Geosciences
2. *Dirasat: Journal for Scientific Research (The University of Jordan)*
3. *Yarmouk Journal for Scientific Research (University of Yarmouk, Jordan)*
4. *Mu'ta Journal for Engineering Research (Mu'ta University – Jordan)*
5. *An'najah Journal for Engineering Research (National University An'najah)*
6. *Journal King Abdul Aziz University for Engineering Research (King Abdul Aziz University Saudi Arabia)*

Selected Publications

- 1-** Albattah Mahmoud MS. Al Rawashdeh S. Ghayda Al Rawashdeh B. Samih Balqies Sadoun, 2021, Assessment of geomatics engineering techniques for landslides investigations for traffic safety, [The Egyptian Journal of Remote Sensing and Space Science](#), Available online 10 July 2021, Please cite this article as: Mahmoud MS. Albattah, Al Rawashdeh S. Ghayda, Al Rawashdeh B. Samih et al., The Egyptian Journal of Remote Sensing and Space Sciences, <https://doi.org/10.1016/j.ejrs.2021.06.007>
- 2-** Mahmoud M.S. Albattah Salah Edin Youssef, 2021, The potential of space geomatics engineering applications in transportation analysis and planning , The Egyptian Journal of Remote Sensing and Space Sciences 24 (2021) 29–40, <https://www.sciencedirect.com/science/article/pii/S1110982319301899>
- 3-** Mahmoud. M. S. ALBATTAH 1, Hayat Sakarneh, March-April 2020, Dynamic Stereo Photogrammetry and Video Streaming for Traffic Congestion Modeling, Test Engineering & Management, ISSN: 0193-4120, Article Info Volume 83 Page Number: 24986- 24994 Publication Issue: March - April 2020
- 4-** Mahmoud M.S. Albattah, Salah Edin Youssef , 2019, The Potential Of Space Geomatics Engineering Applications In Transportation Analysis And Planning, The Egyptian Journal of Remote Sensing and Space Sciences, <http://www.sciencedirect.com/science/journal/11109823>
- 5-** Albattah Mahmoud M.S., 2017, Remote Sensing and Topographic Information in a GIS environment for Urban Growth and Change: Case Study Amman the Capital of Jordan, The First International Conference for Geospatial Information Management.
- 6-** Albattah Mahmoud M.S., 2017, The Optimal Alternatives to Almadina Almunawara Street Using High Radiometric Resolution Satellite Imagery, 8th Traffic Safety Conference- Jordan.

- 7-** Albattah mms, 2016, Optimum Highway Design and Site Location Using Spatial Geoinformatics Engineering, Journal of Remote Sensing & GIS 2016, 5:1, <http://dx.doi.org/10.4172/2469-4134.1000154>
- 8-** Mahmoud M. ALBATTAH, 2015, Remote Sensing and Topographic Information in a GIS environment for Urban Growth and Change: Case Study Amman the Capital of Jordan, International Journal for Innovation Education and Research, Vol.3-2, 2015.
- 9-** Mahmoud M. ALBATTAH, 2015, Optimum Highway Design and Site Location Using Spatial Geoinformatics Engineering, Journal of Remote Sensing & GIS, **ISSN: 2469-4134**, October 28, 2015, 4:154. doi:10.4172/2469-4134.1000154
- 10-** Mahmoud M. ALBATTAH, 2014, "Photogrammetry and Topographic Information for Urban Growth and Change in Amman", **ICCERE: International Conference on Civil and Earth Resources Engineering**, On April, 14-15, 2014 at Venice, Italy
- 11-** Mahmoud M. ALBATTAH, 2009, "Landslides Mechanical behavior Study and Analysis Using Geodetic Observations" **Advanced Technologies** " SBN 978-953-7619-XX "
- 12-** 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
- 13-** 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
- 14-** 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
- 15-** 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.
- 16-** Mahmoud M. ALBATTAH, 2003, "Landslide Monitoring Using Precise Leveling Observations ", **Survey Review** , Vol. 37, 288
- 17-** Mahmoud M. ALBATTAH, and H. Kharabsheh, 2000, " Topographic and Satellite Information for Preliminary Route Location ", **Photogrammetric Record** : 16 (96) pp 987-996.
- 18-** 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.

- 19-** 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.**
- 20-** 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.
- 21-** Mahmoud M. ALBATTAH, 1999, "*Analog Stereorestitution of Spatial Spot Imagery*", **Dirasat : Natural and Engineering Sciences**, Vol. 26, No 1.
- 22-** 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.
- 23-** 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)
- 24-** 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).
- 25-** HOTTIER Ph., Mahmoud M. ALBATTAH, 1990, "*SPOT and the Analytical Photogrammetry: Solution For Somme 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).
- 26-** 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.
- 27-** 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).
- 28-** 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
- 29-** 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

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, Colloquium Talks, Conferences

- 1-** "Remote Sensing: Military & Civilian Application", 2011
- 2-** "Precise Topometry For Landslides Monitoring", International Conference of the Geology of the Arab Word", Cairo, 2003
- 3-** Cadastral Registration Systems: Comparative Study and Analysis, Toward a 3D Real Estate Objects Representation, Dead-Sea, Jordan, 2005
- 4-** "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.
- 5-** "Space-triangulation in France": presented at the seminar Spatial Cartography, Invited by the French Center for Space Studies (CNES/Toulouse/France, Sept. 1990).
- 6-** "Advantages and possibilities of the GPS-2000 (Global Positioning System)", Invited by the Ministry of Public Work and Housing, Amman-Jordan (1992).
- 7-** "GPS and Topographic Surveying", Invited by the Jordanian Engineers Association (1993).
- 8-** "Precise Topometry For Landslides Monitoring", International Conference of the Geology of the Arab Word", Cairo, 2003
- 9-** Cadastral Registration Systems: Comparative Study and Analysis, Toward a 3D Real Estate Objects Representation, Dead-Sea, Jordan, 2005

In 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

Professional Activity in the last five years

- 1- Member of the Faculty Council, Faculty of Engineering and Technology, the University of Jordan 2005-2007
- 2- Chairman, Civil Engineering Department, Faculty of Engineering and Technology, the University of Jordan 2002/2003
- 3- Reviewer for a number of international scientific journals
- 4- Co-Author of the Road route surveying codes, Ministry of Public Works and Housing, Jordan 2007
- 5- Lectures, workshops and seminars in the field of GIS and Remote Sensing Ministry of Public Works and Housing, Ministry of Municipal Affairs, Jordan 2004
- 6- Scientific and Technical Cooperation, MATIS Lab, ENSG, Paris, France, Since 2003
- 7- Development of Cadastral System in the Ministry of Municipal Affaires and the Investment Bank for Cities and Villages development.

Miscellaneous

- **Fluent in English, French, & Arabic**