

## ***Prof. Mohammed Taleb Obaidat; Ph.D.***

### **Office Address**

*Last update Sept. 11, 2021*

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### **PERSONAL**

- Birth: Oct. 25, 1961
- Marital Status: Married with four children; *I strongly do believe in human resources investment:*
  - Baha': Born on June 27, 1989. Ranked the first for Jordanian high school graduates (Tawjeehi) in 2007 with GPA of 98.5%. Medical Doctor; graduated from Medical College at JUST; June 2013; American Board in Internal Medicine Program at Tufts University (2014-2017), USA; and finished his subspecialty in Pulmonary, Critical Care and sleep illness in The Cincinnati State University (July 2017-July 2020); Currently: Pulmonary and Critical Care Physician at Asante Physician Partners; Medford, Oregon; USA.
  - Deya': Born on August 3, 1992. Medical Doctor; graduated from Medical College at JUST; June 2016; Medical Doctor, American Board in Internal Medicine Program at Detroit Medical Center (Wayne State University), USA (June 2017-June 2020). Currently: Doing Subspecialty in rheumatology at DMC in Wayne State Univ. and Henry Ford Hospitals; Since July 2020.
  - Ahmed: Born on September 4, 1995. Medical Doctor; graduated from Medical College at JUST; June 2019. Internship at King Abdullah II Founder Hospital (July 2019- July 2020); Gynecology resident at Royal Medical Services in Jordan since Jan. 2021.
  - Abdallah: Born on June 18, 2001. Jordanian high school graduates (Tawjeehi) in 2019 with GPA of 99.5%; Currently, at 3<sup>rd</sup> year Medical College at JUST;
- Languages: English (Fluent), and Arabic (Fluent).

### **EDUCATION**

- Ph.D.: Civil Engineering, Geomatics and Transportation Engineering (Surveying, Photogrammetry, Geometric Design, and Computer Vision as part of Transportation Engineering), University of Illinois at Urbana-Champaign, Urbana, U.S.A. November 3, 1993. (GPA 5.0/5.0).

- M.Sc. #2 : Civil Engineering, Geomatics and Transportation Engineering (Surveying, Photogrammetry, Geometric Design, and Computer Vision as part of Transportation Engineering), University of Illinois at Urbana-Champaign, Urbana, U.S.A. November 3, 1993. (GPA 5.0/5.0).
- M.Sc. #1: Civil Engineering, Transportation Engineering, Jordan University of Science and Technology, Irbid, JORDAN, December 1987. (G.P.A 92.9/100. Scholastic Evaluation: Excellent).
- B.Sc.: Civil Engineering, June 1983, Yarmouk University, Irbid, JORDAN. (GPA 82.7/100, Scholastic Evaluation: Excellent).

### **THESES TITLES**

- Ph.D. Thesis: "Video Metrology for Documentation of Engineering Construction", unpublished, 1994.
- M.Sc. Thesis: "Comparison between Various Methods of Pavement Design", unpublished, 1988.

### **ADMINISTRATIVE & ACADEMIC POSITIONS**

#### **1. Political and Administrative Positions:**

- Minister of Public Works and Housing (MPWH)- Cabinet Member, Jordan, since Dec. 14, 2009 till Nov. 21, 2010 (First cabinet of HE Sameer Al-Refaei).
- Minister of Public Works and Housing (MPWH)- Cabinet Member, Jordan, since Nov. 22, 2010 till Feb. 1, 2011 (Second cabinet of HE Sameer Al-Refaei).
- Jadara University President, Since Sept. 12, 2019-Present.
- Vice-Chairman of Daman Development Company Board, Oct. 18, 2020- July 1, 2021.
- Chairman of Board of Northern Development Company; Irbid Development Area (IDA); since July 1, 2016- Oct. 18, 2020.
- Chairman of Board of Irbid District Electricity Company (IDECO); since April 01, 2016 – July 1, 2016.
- Chairman of the Jordanian National Buildings Council, Jordan-since Dec. 14, 2009 till Feb. 1, 2011.
- Chairman of the Housing Administrative Council, Jordan-since Dec. 14, 2009 till Feb. 1, 2011.
- Member of the Jordanian Cabinet's committees: Infrastructure and Mega Projects, Economic Development, and Services since Dec. 14, 2009 till Feb. 1, 2011.
- Member of the Steering Committee of the National Company of Training and Employment, Jordan- since Dec. 14, 2009 till Feb. 1, 2011.
- Member of the Steering Committee of King Abdullah of Saudi Arabia City, Jordan, since Dec. 14, 2009 till Feb. 1, 2011.
- Member of the Steering Committee of Jordan Rally, Jordan, since Dec. 14, 2009 till Feb. 1, 2011.
- Member of the Royal Committee for Mosques Buildings, Jordan, since Dec. 14, 2009 till Feb. 1, 2011.
- Chairman of the Steering Committee of Governmental Buildings Facility Management Project, Jordan, since Dec. 14, 2009 till Feb. 1, 2011.
- Adviser to the minister of higher education and research for student and academic affairs, Ministry of Higher Education and Research, Jordan, since Dec. 21, 2004- January 1, 2008.

- Dean of Students' Affairs, Jordan University of Science and Technology (JUST), From Jan. 2000- Sept. 1<sup>st</sup>, 2004.

## 2. **Academic Positions:**

- Jadara University President, Since Sept. 12, 2019-Present.
- Adviser to the minister of higher education and research for student and academic affairs, Ministry of Higher Education and Research, Jordan, since Dec. 21, 2004- January 1, 2008.
- Dean of Students' Affairs, Jordan University of Science and Technology (JUST), From Jan. 2000- Sept. 1<sup>st</sup>, 2004.
- Vice-chairman of the Board of Trustees of Jarash Private University, Jordan, since May 2018 - till present.
- Member of the Board of Trustees of Philadelphia Private University, Jordan, since Dec. 1, 2017 till Present.
- Member of the Board of Trustees of Jadara Private University, Jordan, since Nov. 2013 till Dec. 2017.
- Member of the Board of Trustees of Jarash Private University, Jordan, since July 24, 2006 till Dec. 9, 2009.
- Vice-Dean of Students' Affairs, Jordan University of Science and Technology (JUST), August 1999 - Jan. 2000.
- Coordinator for the Transportation Engineering Division at the Civil Engineering Department, Jordan University of Science and Technology (JUST), 1995-1999.

## 3. **Other Positions:**

- District Projects Manager, Ministries of Municipalities and Education, Jordan. Oct. 1985 to Sept. 1988. Duties: Supervision, Design, and Construction of different types of construction projects.
- President of Jordanian Universities Sports Federation, since Jan. 2000 till August 1, 2004.

## **WORK HISTORY**

- Jadara University President, in leave from JUST, Since Sept. 12, 2019-Present.
- Professor of Civil Engineering, Civil Engineering Department, Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan, since June 27, 2006. Duties: Teaching, Research, and Community Service.
- Sabbatical leave at Applied Science University, Civil Engineering Department, Amman, Jordan, since Sept. 17, 2017 till Present. Duties: Teaching, Research, and Community Service.
- Sabbatical leave at the University of Jordan, Civil Engineering Department, Amman, Jordan, since Sept. 9, 2012 till Sept. 2014. Duties: Teaching, Research, and Community Service.
- Minister of Public Works and Housing (MPWH) in Jordan, Since Dec. 14, 2009 till 1/2/2011.
- Associate Professor of Civil Engineering, Civil Engineering Department, Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan, Jan. 1999 till June 26, 2006. Duties: Teaching, Research, and Community Service.
- Assistant Professor of Civil Engineering, Civil Engineering Department, Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan, Jan. 1994 till Jan. 15, 1999. Duties: Teaching, Research, and Community Service.

- Adjunct Assistant and Associate Professor, Architectural Engineering College, Jordan University of Petra (University for Women), Amman, Jordan, July 1996 to Sept. 1996; July 1997 to Sept. 1997; July 1998 to Sept. 1998; July 1999 to Sept. 1999; and July 2000 to Sept. 2000. Duties: Teaching Surveying Courses and their laboratories.
- Adjunct Assistant Professor, Civil and Architectural Engineering Departments, Applied Science University, Amman, Jordan, July 1994 to Sept. 1994. Duties: Teaching Surveying Courses and their laboratories.
- Graduate Research Assistant, Department of Civil Engineering, University of Illinois at Urbana-Champaign, August 1990 to November 1993. Major research duties covers mathematical and stochastic computer models (Algorithms and Software) related to Digital and Analytical Photogrammetry, and Computer Vision. This work was carried under the supervision of Prof. Kam W. Wong.
- Teaching Assistant, Department of Civil Engineering, University of Illinois at Urbana-Champaign, Jan. 1993 to June 1993. Duties: Teaching Surveying Laboratory.
- Teaching and Research Assistant, Department of Civil Engineering, Jordan University of Science & Technology, Irbid, JORDAN. Sept. 1988 to Aug. 1990. Duties: Teaching undergraduate courses in Civil Engineering (Surveying and Bituminous Mixture laboratories) and doing research in Highway and Transportation Engineering.
- District Project Manager, Ministries of Municipalities and Education, Jordan. Oct. 1985 to Sept. 1988. Duties: Supervision for construction projects which worth more than 5 Million Dollars.
- Professional Engineer, Jordanian Army. Oct. 1983 to Oct. 1985. Duties: design, consultation, and projects manager for major construction projects (Gunfire Equipment Workshop and others).

### **FUNDED RESEARCH PROJECTS AND GRANTS**

- Earth Observation Tools for the Promotion of Digital Economy- ERODITE; Erasmus+ Capacity Building in Higher Education Call EAC/A02/2019-Selection Year 2020, Grant Amount 900,666.67 Euro; Application Reference Number: 617730-EPP-1-2020-1-EL-EPPKA2-CBHE-JP; Partnership with NTUA; JUST; Jadara Univ.; and Applied Balqa Univ. from Jordan.
- Erasmus Mundus External Window Project, TEMPUS Project; European Commission, (54) Mobility per year, exchange project, BSc, MSc, PhD, Faculty Exchange and Post-Doctorates, 20 Middle-eastern and European Universities, 2007-Present. I left the project since 2010 because of being appointed as a Minister of Public Works and Housing (MPWH). (2007-Present).
- European Union funded project about Tourism and applications of ISO and Android systems for handicap and refugees, consortium with universities from Greece, Egypt, Lebanon, and Portugal; 2017.
- European Commission fund to support project about “Public Awareness of Recycling” at the Deanship of Students Affairs at Jordan University of Science and Technology (JUST), Irbid, Jordan. Project number 93601-1.2-JO-7-2001-R2. Grant amount of 33380 Euro; year 2001.
- Structural assessment for misalignment effect on buildings constructed in Jordan, research proposal funded by the dean-ship of scientific research at JUST, July 1996-2001.
- Soil structure interaction of highly expansive Irbid soil, research proposal funded by the dean-ship of scientific research at JUST, Oct. 1995-2002.
- Extraction of traffic parameters through vision systems, research proposal submitted to the higher council of science and technology (HCST), Amman, Jordan, Jan. 1996-2000.

- Evaluation of bituminous mixtures stripping using conventional and image processing techniques; research proposal funded by the dean-ship of scientific research at JUST, August 1997-2004.
- Development of a knowledge-based system for pedestrian road crossing behavior through video cameras; research proposal funded by the dean-ship of scientific research at JUST, August 1997-2004.
- Geometry of Intersection Effect on Drivers Behavior using Vision System; research proposal funded by the dean-ship of scientific research at JUST, August 1997-2004.
- “Immediate Remedial Solution to On-Street Parking Problems in Aqaba, Jordan”, Nathan Association Inc. under the Aqaba Zone Economic Mobilization (AZEM Project), USAID funded project, Aqaba Special Economic Zone Authority (ASEZA), Dec. 2006-2007.
- Risk Assessment for Northern Part of Jordan, UNDP Project, 2009.
- Training course in “Democratic Thinking and Women Empowerment” for Iraqis’ officials, UNDP, 2009.
- Micro-analysis of Bituminous Mixture Using Cellular Phones and Image Processing Techniques; JUST Deanship of Research; May 2015.
- Digital Mapping of Urban Arterial Roads Pavement Conditions by Integration of New Technologies; JUST Deanship of Research; May 2015.
- Ministry of Higher Education and Scientific Research fund, preliminary acceptance, about quarter million Jordanian Dinner, Co-Author, “Mobile Mapping System (MMS) for Urban Spatial Data Acquisition“
- Training course in “Democratic Thinking and Women Empowerment” for Iraqis’ officials, UNDP, 2009.

## **PUBLICATIONS**

### **A. Published in refereed, specialized, international, and indexed journals:**

1. **M. T. OBAIDAT** and W. S. Abdullah, “The application of terrestrial photogrammetry to transportation engineering”. *ARRB Road and Transport Research*, Australia, Vol. 5, No. 1, March 1996, pp. 84-97.
2. **M. T. OBAIDAT** and K. W. Wong, “Automated Knowledge-Based System for Stereo Video metrology”. *ASCE (Journal of Surveying Engineering)*, May 1996, Vol. 122, No. 2, pp. 47-64.
3. **M. T. OBAIDAT** and Z. Al-Smadi, “A Modified Theodolite Instrument: Conceptual Work”. *Journal of Testing and Evaluation, JTEVA, ASTM*, Vol. 24, No. 3, May 1996, pp. 194-202.
4. **M. T. OBAIDAT** and K. W. Wong, “Geometric Calibration of CCD Cameras Using Planner Object”. *ASCE (Journal of Surveying Engineering)*, August 1996, Vol. 122, No. 3, pp. 97-113.
5. **M. T. OBAIDAT**, and T. I. Al-Suleiman, A Proposed Information Technology Framework to Improve Road Maintenance Management Systems, *The International Journal of Construction Information Technology (CIT)*, Vol. 4, No. 2, Winter 1996, pp. 85-93.

6. **M. T. OBAIDAT**, T. I. Al-Suleiman, and G. T. Abdul-Jabbar, "Quantification Of Pavement Rut Depth Using Stereo Vision Technology", *Journal of Surveying Engineering, American Society of Civil Engineers (ASCE), Geomatics Division*, Vol. 123, No. 2, May 1997, pp. 55-70.
7. H. Al-Masaeid, **M. T. OBAIDAT**, and Fouad Gharaybeh, "Pedestrian Accidents Along Urban Arterial Midblocks", *Journal of Traffic Medicine (JTM)*, Vol. 25, No. 3-4, Dec. 1997, pp. 65-70.
8. **M. T. OBAIDAT**, O. Al-Jayyousi, and H. Al-Masaeid, "A New Methodology for Evaluating Geometric Performance of Highways", *Highway Research Bulletin, Highway Research Board, Indian Road Congress (IRC), Number 57, Dec. 1997*, pp. 1-20.
9. **M. T. OBAIDAT**, and H. Al-Masaeid, "Video System To Monitor Archeological Sites Using Ground-Based Photogrammetry", *ASCE (Journal of Surveying Engineering)*, Vol. 124, Issue 1, pp. 3-25. Feb. 1998.
10. **M. T. OBAIDAT**, and M. F. Attom, "Computer Vision-Based Technique To Measure Displacement In Selected Soil Tests", *ASTM, Geotechnical Testing Journal. Volume 21, Number 1*, pp. 31-37, March 1998.
11. **M. T. OBAIDAT**, T. I. Al-Suleiman, and K. A. Ghuzlan, "A Stereometric Knowledge-Based System For Maintenance Of Street Networks", *Canadian Journal of Civil Engineering, April 1998 issue*, Vol. 25, No. 2, pp. 220-231.
12. F. Gharaybeh, H. Al-Masaeid, and **M. T. OBAIDAT**, "Parametric Sensitivity Study of the "AASHTO" Flexible Pavement Design Equation", *The Institution of Engineers (India)*, Vol. 78, Feb. 1998, pp. 175-179.
13. H. Al-Masaeid, T. I. Al-Suleiman, and **M. T. OBAIDAT**, "Traffic Volume Forecasting Models for Rural Desert Towns", *Institute of Transportation Engineers Journal (ITE), Journal on the Web, May 1998, Abstracted on page 13 for its ITE Journal on the Web Publication. <http://www.ite.org>*
14. W. S. Abdullah, **M. T. OBAIDAT**, and N. M. Abu-Sa'da, "Influence of aggregate types and gradation on voids of asphalt concrete pavements", *ASCE, Journal of Materials in Civil Engineering*. Vol. 10, No. 2, May 1998, pp. 76-85.
15. A. Awad and **M. T. OBAIDAT**, "A proposed computer-aided educational system for graduate studies", *Arab League Educational, Cultural and Scientific Organization, Arab Journal of Higher Education*, Annual Publication, Volume 1, Number 1, December 1995. pp. 171-180. (In Arabic Language).
16. A. M. Odeh and **M. T. OBAIDAT**, "Construction Planning and Monitoring Techniques Integrated with Vision System", *The International Journal of Construction Information Technology (CIT)*, Vol. 6, No. 1, Summer 1998, pp. 1-23.
17. **M. T. OBAIDAT** and Z. Al-Smadi, "Additional Comments About A Modified Theodolite Instrument: Conceptual Work". *Journal of Testing and Evaluation, JTEVA, ASTM*, Sept. 1998, Vol. 26, No. 4, pp. 510-512.

18. T. I. Al-Suleiman, **M. T. OBAIDAT**, and R. M. Nuseir, "Evaluation Of Road Maintenance Management System In Jordan", *Indian Road Congress (IRC), Indian Highways journal*, Oct. 1998, pp. 49-56.
19. **M. T. OBAIDAT**, H. Al-Masaeid, F. Gharaybeh, and T. Khedaywi, "An Innovative Digital Image Analysis Approach to Quantify VMA% of Bituminous Mixtures", *Canadian Journal of Civil Engineering*, Vol. 25, Dec. 1998, pp. 1041-1049.
20. Mohamed Abdel-Halim and **M. T. OBAIDAT**; Assessment of Misalignments in Some Selected Buildings in Jordan and Their Structural Effects; *ASTM; Journal of Testing and Evaluation*; Nov. 2000 issue; pp. 485-493.
21. Turki Al-Suleiman; **M. T. OBAIDAT**; Ghassan Abdul-Jabbar; and Taisir Khedaywi; Field Inspection And Laboratory Testing of Highway Pavement Rutting; *Canadian Journal of Civil Engineering*, Volume 27; Number 1; Nov. 2000; pp. 1109-1119
22. Mosa Ottom; Majed Abu Zreig, and **M. T. OBAIDAT**; Changes in Clay Swelling and Shear Strength Properties with Different Sample Preparation Techniques; *ASTM, Geotechnical Testing Journal*, Vol. 24, No. 2, June 2001 issue, pp. 157-163.
23. **M. T. OBAIDAT**; Saad Abo-Qudais; and Ahmad F. Obaidat; Evaluation of Bituminous Mixtures Stripping Using Conventional and Image Processing Techniques; *ASTM: Journal of Testing and Evaluation*; Nov. 2005, Vol. 33, No. 6, paper ID JTE12731, pp. 418-432.
24. **MOHAMMED T. OBAIDAT**; GIS Potential In Management of Pedestrian Accidents in developing Countries; "*Journal of the Transportation Research Forum, JTRF*", Volume 45, Number 1, Spring 2006, PP. 101-111.
25. **MOHAMMED T. OBAIDAT**; and Sharaf A. Al-kheder; Integration of Geographic Information Systems and Computer Vision Systems for Pavement Distresses Classification; *Construction and Building Materials*, Elsevier Science. Reference 41101; Acceptance date: Feb. 15, 2005. Posted on line since April 7, 2005. Published in Vol. 20, Issue 9, Nov. 2006, pp. 657-672.
26. **MOHAMMED T. OBAIDAT**; and Sharaf A. Al-kheder; GIS and GPS as A Tool for Roadway Accidents Analysis; *Indian Highways of the Indian Roads Congress*; Vol. 34, No. 6, June 2006, pp. 65-78.
27. **MOHAMMED T. OBAIDAT**; Hashem Al-Masaeid; Olfat Al-Haji, and Abdalla Qudah; A Knowledge-Based System For Pedestrian's Roadway Crossing Behavior Through Video Cameras; *Jordan Journal of Civil Engineering, An International Refereed Research Journal*, Vol. 1, No. 2, April 2007, pp. 123-141.
28. **MOHAMMED T. OBAIDAT**; Spatial Mapping of Traffic Noise Levels in Urban Areas, *Journal of the Transportation Research Forum (JTRF)*, Volume 47, Number 2, Summer 2008, pp. 89-102.

29. **MOHAMMED T. OBAIDAT**; and Thanaa M. Ramadan. Traffic Accidents At Hazardous Locations of Urban Roads; *Jordan Journal of Civil Engineering, An International Refreed Research Journal Funded by the Scientific Research Fund-Jordan*; Vol. 6, No.4, pp. 436-447, Thul-Qi'dah 1433, October 2012.
30. **MOHAMMED T. OBAIDAT**; and Bara' W. Al-Mestarehi. Integration of Geographic Information Systems and Paver System Toward Efficient Pavement Maintenance Management System (PMMS) - Case Study-Irbid City-Jordan; *Journal of Advanced Science and Engineering Research*; Volume 2, Issue 4, Dec. 2012; pp. 279-296. On-line page: <http://www.sign-ific-ance.co.uk/dsr/index.php/JASER/article/view/469/572>
31. **MOHAMMED T. OBAIDAT** and Anas Ahmad Mohammad; “GIS and GPS to Evaluate Urban Arterials Performance”, *Jordan Journal of Civil Engineering*, Vol. 10 No.1, Jan. 2016; pp. 132-144.
32. **MOHAMMED T. OBAIDAT**; “The Effect of Base to Focal Length Ratio on Stereo Rig Calibration Using a Planar Constraint Facility”, *Jordan Journal of Civil Engineering*, Vol. 11 No.2, April 2017; pp. 239-252.
33. **MOHAMMED T. OBAIDAT**; Dr. Khalid A. Ghuzlan, Ms. Mai M. Alawneh; Analysis of Volumetric Properties of Bituminous Mixtures Using Cellular Phones and Image Processing Techniques; *Canadian Journal of Civil Engineering*; Vol. 44, pp. 715-726, <https://doi.org/10.1139/cjce-2017-0085>; 2017.
34. Khalid A. Ghuzlan; **MOHAMMED T. OBAIDAT**; and Mai M. Alawneh; Cellular-Phone-based Computer Vision System to Extract Coarse Aggregate Shape Properties; *Automation in Construction*; 2017.
35. **MOHAMMED T. OBAIDAT**; Khalid A. Ghuzlan and Bara' W. Al-Mestarehi. Integration of Geographic Information System (GIS) and PAVER System toward Efficient Pavement Maintenance Management System (PMMS); *Jordan Journal of Civil Engineering*, Vol. 12 No. 3, July 2018; pp. 449-460.
36. Nawras Shatnawi and **MOHAMMED T. OBAIDAT**. Extraction of As-Built Drawings Using Cell Phone Camera; *Jordan Journal of Civil Engineering (JJCE)*, Vol. 13 No. 1, Jan. 2019; pp. 21-29.
37. Bara' W. Al-Mestarehi and **MOHAMMED T. OBAIDAT**; Creating a Complete Model of the Wooden Pattern from Laser Scanner Point Clouds Using Alpha Shapes; *Jordan Journal of Civil Engineering (JJCE)*, Vol. 13, No. 2, April. 1, 2019; pp. 269-279.
38. Khalid A. Ghuzlan, **MOHAMMED T. OBAIDAT**; and Mai M. Alawneh; Cellular-Phone-based Computer Vision System to Extract Shape Properties of Coarse Aggregate for Asphalt Mixtures; *Engineering Science and Technology, an International Journal*; Vol. , No. , 2019, pp.
39. Khairedin M. Abdalla; Rajai Z. Al-Rousan; **MOHAMMED TALEB OBAIDAT**; Osama Kh. Nusier; Khaldoon Bani-Hani; and Nikos Lagaros; The Impact of Asphalt Wearing Surface



Thickness on Response of Two-Span Continuous Cast-in-Place Prestressed Concrete Box Girder Highway Bridge February 2019; JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY REVIEW 12(1):173-177; DOI: 10.25103/jestr.121.20.

40. **M. T. OBAIDAT**, Cellular-Phone-Based System for Transportation Engineering Applications, Alexandria Eng. J. (2020), <https://doi.org/10.1016/j.aej.2020.01.040>; Volume 59, Issue 3, June 2020, Pages 1197-1204.

41. Bara' wasfi Al-Mistarehi; and **M. T. OBAIDAT; (2020)**; Detection of Crack on Concrete Surface Using Semi-Automated Digital Image Processing Technique; International Journal of Advanced Science and Technology; Vol. 29(4s):2465-2480.

42. **OBAIDAT, M.T.**, Shatnawi, N. & Al-Sharideah, A. Geomatics techniques for evaluation of road pavement rutting. Appl Geomat (2020). <https://doi.org/10.1007/s12518-020-00337-0>

43. H. R. Al-Masaeid; **M. T. OBAIDAT**; and Hajoj A. S.; Consistency and Performance of Interchange Loops; Jordan Journal of Civil Engineering (JJCE), Vol. 15, No. 1, Jan. 1, 2021; pp.89-101.

44. B. W. Al-Mistarehi; A. H. Alomari; **M. T. OBAIDAT**; and Areen A. Al-Jammal; Driver Performance Through the Yellow Phase Using Video Camera at Urban Signalized Intersections, Transport Problems, International Scientific Journal, Issue 1, Vol. 16, 2021; pp. 51-64.

45. **M. T. OBAIDAT**; and Nour Abu Shuaib; Selection of the Best Locations of New Photovoltaic Farms in Jordan using GIS; Jadara Journal for Research and Studies, Volume 6, 2020; pp. 1-9.

46. Shatnawi, N., **M. T. OBAIDAT** & Al-Mistarehi, B.; Road pavement rut detection using mobile and static terrestrial laser scanning. Applied Geomatics; (2021). <https://doi.org/10.1007/s12518-021-00400-4>

### **B. International Conferences (Presentation and Proceedings Publications)**

1. K. W. Wong, Y. Ke, M. Lew, and **M. T. OBAIDAT**, "Three-Dimensional Gauging With Stereo Computer Vision", presented in the Industrial Vision Metrology" conference, 11-12 July, 1991, Winnipeg, Manitoba (Canada). SPIE Volume 1526.

2. K. W. Wong and **M. T. OBAIDAT** , "DRSTEREO- A Stereo Measurement System for the PC", presented in the ASPRS/ACSM/RT 92 Convention, August 3-8, 1992, Washington D.C., Volume 2, Photogrammetry and Surveying, pp. 228-234.

3. K. W. Wong and **M. T. OBAIDAT**, "CCD Camera Calibration Using Planer Constraint", presented in the Close-Range Techniques and Machine Vision Symposium, Proceedings of the ISPRS Commission V Intercongress Symposium, 1-4 March 1994, Melbourne, Australia, International Archives of Photogrammetry and Remote Sensing (ISPRS), Vol. XXX, Part 5, pp. 447-451.

4. K. W. Wong and **M. T. OBAIDAT**, “A Knowledge-Based System for Stereo Video Measurement”, presented in the Close-Range Techniques and Machine Vision Symposium, Proceedings of the ISPRS Commission V Intercongress Symposium, 1-4 March 1994, Melbourne, Australia, International Archives of Photogrammetry and Remote Sensing (ISPRS), Vol. XXX, Part 5, pp. 443-446.
5. **M. T. OBAIDAT** and A. M. Odeh, “An automated stereometric knowledge-based CAD system for construction management”, Second International Conference and Exhibition, VIDEA 1995, Visualization and Intelligent Design in Engineering and Architecture, Spain, 12-14 June 1995. pp. 69-77.
6. T. I. Al-Suleiman and **M. T. OBAIDAT**, “Innovative approach toward better road maintenance management systems”, presented at the 75th TRB annual meeting which held in Washington D.C. in Jan. 7-11, 1996.
7. A. Basma, T. Al-Suleiman and **M. T. OBAIDAT**, “Feasibility of Using Artificial Neural Networks in Assessing Pavement Condition”, Presentation and proceedings, 2nd international conference in civil engineering on computer applications research and practice, ICCE-96, University of Bahrain, 6-8 April, 1996, Vol. 1, pp. 85-92.
8. **M. T. OBAIDAT**, “vegetation distribution using ancillary and remote sensing data: a case study”, Proceedings of the Sixth International Conference in: Development and Application of Computer Techniques to Environmental Studies (ENVIROSOFT 96), Computational Mechanics Publications, Como, Italy, 18-20 Sept., 1996, pp. 437-446.
9. **M. T. OBAIDAT**, Feasibility Of The Deployment Of Intelligent Transportation Systems (ITS) In Jordan”, *first Jordanian Conference on Traffic Engineering and Environment*, Amman-Jordan, 13-15 May 1997, Second Volume, pp. 113-124.
10. **M. T. OBAIDAT**, “An Automated Knowledge-Based System for Stereo Video Metrology”, presented in the International Conference on Computer and Information System (ICCIS), Applied Science University (ASU), Amman, Jordan, July 30 - August 1, 1994.
11. **M. T. OBAIDAT**, “Geometric Calibration of CCD Camera Using Planer Object”, presented in the International Conference on Computer and Information System (ICCIS), Applied Science University (ASU), Amman, Jordan, July 30 - August 1, 1994.
12. Saed Abo-Qudais, **M. T. OBAIDAT**, Khaled Ghuzlan, and Turki Al-Suleiman. “Problems, Distresses, and Maintenance of Flexible Pavement and Using of New Technologies in Maintenance”, Northern Municipalities Workshop: Current and Future”, In coordination with Irbid Municipality and Jordan University of Science and Technology (JUST), Irbid, Jordan, July 7-8, 1998.
13. **M. T. OBAIDAT**, “Traffic Accident Trends in Developed and Developing Countries: A Case Study for Jordan and U.S.A.”, Safety on Roads: an International Conference (SORIC’ 1998), 26-28 Oct., 1998, University of Bahrain, Bahrain.

14. **M. T. OBAIDAT**, "A Close-Range Photogrammetry Data Acquisition System For Traffic Accidents", 10<sup>th</sup> International Conference "Traffic Safety on Two Continents- Traffic Engineering and New Technology", Swedish National Road and Transport Research Institute which was held in Malmo, Sweden, Sept. 20-22, 1999, Program 20/9.
15. **M. T. OBAIDAT**, "Rescue of Traffic Accident Injuries to Nearest Hospital Using Vector GIS"; "13th International Conference on Road Safety to be held in Warsaw, Poland on October 5-7, 2005." Organized by the National Swedish Road and Transport Research Institute (VTI), with active involvement of GRSP (Global Road Safety Partnership), FERSI (Forum of European Road Safety Research Institutes), TRB (Transportation Research Board), CSIR of South Africa and ECTRI (European Conferences of Transport Research Institute). Acceptance letter date June 7, 2005.
16. **MOHAMMED T. OBAIDAT**; GIS Potential in Parking Lots Studies, ICCBT2008, presented and published in the proceeding of the International Conference on Construction and Building Technology in Kuala Lumpur, "Advanced Research in Transportation and Geotechnical Engineering" Volume, MALAYSIA on 16-20 June 2008, organized by Universiti Tenaga Nasional, International Association for Concrete Technology, and Universiti Teknologi PETRONAS. ICCBT 2008-E-16, PP. 193-202.
17. **MOHAMMED T. OBAIDAT**; Ghazi Al-Khateeb; Taiser Khedaywi; and Balkees Bannoura; Evaluation of Drivers` Behavioral Mistakes In Jordan; Fifth Traffic Safety Conference in Jordan, organized by Jordanian Traffic Institute, Public Security Directorate, Amman-Jordan, April 22-24, 2008, pp. 1-6 to 14-6.
18. Taiser Khedaywi, **MOHAMMED T. OBAIDAT**; Ghazi Al-Khateeb; and Thanaa Ramadan, Pedestrian Accidents: Causes and Solutions, Fifth Traffic Safety Conference in Jordan,, organized by Jordanian Traffic Institute, Public Security Directorate, Amman-Jordan, April 22-24, 2008, pp. 1-10 to 15-10.
19. Ghazi Al-Khateeb, **MOHAMMED T. OBAIDAT**, and Taiser Khedaywi; Pedestrian and Driving Behaviors and Traffic Systems Issues in Jordan; Fifth Traffic Safety Conference in Jordan, organized by Jordanian Traffic Institute, Public Security Directorate, Amman-Jordan, April 22-24, 2008, pp. 1-2 to 15-2.
- 20 **MOHAMMED T. OBAIDAT**; and Thanaa M. Ramadan. Traffic Accidents At Hazardous Locations of Urban Roads; Participating in the "10<sup>th</sup> Transport Engineering Conference" (CIT 2012); University of Granada, Spain, June 20-22, 2012.
21. **MOHAMMED T. OBAIDAT**. "Mega Projects in Jordan". Fifth Middle East Cement Trade, Center for Management Technology, 20-21 Sept., 2010, Dead-Sea, Movenpick Resort, Jordan.
22. **MOHAMMED T. OBAIDAT**. Green Buildings in Jordan. Global Green Techies Forum and Exhibition 2010. Sept. 21, 2010. Royal hotel, Amman, Jordan.
23. **MOHAMMED T. OBAIDAT** and Eng. Thanaa M. Ramadan; Traffic Accidents at Hazardous Locations of Urban Roads; X-Congress of Transport; CIT2012; June 20-22, 2012, Granada University-Spain.

24. **MOHAMMED T. OBAIDAT** and Anas Ahmad Mohammad; GPS Vehicle Tracking at Urban Areas; 8<sup>th</sup> International Conference on Engineering Computational Technology (ECT2012); Civil-Comp press; Paper number 139; 19 pages; Croatia; Sept. 4-7; 2012.
25. **MOHAMMED T. OBAIDAT**; “Strategic Planning and Governance”; the Fourth Regional Conference entitled: Governance and Reform; Main Keynote Speaker; Amman May 20, 2012.
26. **MOHAMMED T. OBAIDAT**; “Jordanian Youth Strategic Vision”; Keynote Speaker; First Youth Conference; Irbid; Jordan; March 27; 2012.
27. Bara' AL-Mistarehi, Volker Schwieger; and **MOHAMMED T. OBAIDAT**; Cost Efficient Camera System to Acquire Data for Pavement Maintenance Management System (PMMS); 3<sup>rd</sup> International Conference on Machine Control and Guidance; 27-29 March, 2012; University of Stuttgart and University of Hohenheim, Stuttgart, Germany; pp. 152-161.
28. **MOHAMMED T. OBAIDAT**; Strategic Planning and knowledge Administration and Change; Conference in “Strategies of human development through Knowledge Administration”; organized by Al-Feker Center; Oman, Salalah, 20-22, 8, 2013; pp. 111-157.
29. **MOHAMMED T. OBAIDAT**; “Metrology, Computer Vision, GIS and Geomatics Experience in Civil Engineering Applications”, “Sixth Surveying and Geographic Names” conference, organized by Royal Jordanian Geographic Center and Arabic Union of Surveyors; Amman, Jordan, Oct. 29-31, 2013.
30. **MOHAMMED T. OBAIDAT**; “Geographic Information Systems (GIS) in Planning and Geographic Names Queries”, “Seventh Surveying and Geographic Names” conference, organized by Royal Jordanian Geographic Center and Arabic Union of Surveyors; Amman, Jordan, Nov. 11-13, 2014.
31. **MOHAMMED T. OBAIDAT**; “Current and Future Perspectives for Transportation Systes in Jordan”; Amman Ahlya University, Tempus Plus Project; International Workshop about Intelligent Transpoartation Systems (ITS); Amman April 20-22, 2015.
32. **MOHAMMED T. OBAIDAT**; “New Vision for Transportation Systems in Jordan”; 7<sup>th</sup> Traffic Safety Conference, Jordan 15, Jordan Traffic Institute, Public Security Directorate, Amman 12-13 May, 2015.
33. **MOHAMMED T. OBAIDAT**; “Potential of Cellular Phones in Transportation Engineering”, 2015 Road Safety & Simulation International Conference; Oct. 6-8, 2015, Orlando, Florida, University of Central Florida and the University of Tennessee, <http://stc.utk.edu/STCevents/rss2015/abstracts.html>; USA.
34. **MOHAMMED T. OBAIDAT**; and Randa Oqab Mujalli “Bus Ridership Analysis in Amman City”; ICTTE Belgrade 2016, Belgrade, Serbia, Nov. 24-25, 2016.

35. **MOHAMMED T. OBAIDAT**; “Relevance between University Graduates and Labor Market; Islamic Imam Ben Moh’d University, Second National Conference for Preparation Years; March 8-9, 2017.
36. Aldala’in, Shatha A.; Abdul Sukor, Nur Sabahiah, and **MOHAMMED T. OBAIDAT**; (Jan. 2020); The Impact of Road Alignment toward Road Safety: A review from statistical perspective; DOI: 10.1007/978-3-030-32816-0\_51; Proceedings of AICCE'19
37. **MOHAMMED T. OBAIDAT**; Future of Higher education in Jordan; Annual International Conference; North American University, July 20, 2021.

**C. Accepted for publication in refereed, specialized, international, and indexed journals:**

1. **MOHAMMED T. OBAIDAT**; Spatial Mapping of Traffic Noise Levels in Urban Areas, Journal of the Transportation Research Forum (JTRF).
2. **MOHAMMED T. OBAIDAT**; Khaled Gozlan and Mai Alawneh; The Micro-Analysis of Bituminous Mixture Using Cellular Phones and Image Processing Techniques; Canadian Journal; 2017.

**D. Papers Submitted for publication:**

1. **MOHAMMED T. OBAIDAT**; and Bara' W. Al-Mestarehi. Integration of Geographic Information Systems and Paver System toward Efficient Pavement Maintenance Management System (PMMS) - Case Study-Irbid City-Jordan; Journal of Advanced Science and Engineering Research.
2. **MOHAMMED T. OBAIDAT**; and Danya Gutaishat; A User Friendly GIS-based Highway Maintenance system; submitted for publication.
3. **MOHAMMED T. OBAIDAT**; Dr. Khalid Ahmad GHUZLAN; and Bara Al-Mestarehi Integration of Geographic Information Systems (GIS) And Paver System toward Efficient Pavement Maintenance Management System (PMMS); submitted for publication.
4. **MOHAMMED T. OBAIDAT**; and Dr. Randa Mujalli; Estimating LOS and Ridership of Buses Using Multivariate Analysis; submitted for publication.
5. **MOHAMMED T. OBAIDAT**; and Dr. Randa Mujalli; Analysis of Buses System Using Geographic Information Systems (GIS) in Amman City; submitted for publication.
6. **MOHAMMED T. OBAIDAT**; and Anas Mohammad; GPS Vehicle Tracking at Urban; submitted for publication.
7. **MOHAMMED T. OBAIDAT**; and Anas Mohammad; Utilizing GIS and GPS for Evaluating Urban Arterials Performance; submitted for publication.

**E. Published in Local Journals and Magazines**

1. **MOHAMMED T. OBAIDAT** and Randa O. Mujalli; Analyzing Public Transportation Using Geographic Information Systems (GIS), Irbid Engineer Magazine, Jordan Engineering Association, Irbid Governorate Section, 3<sup>rd</sup> Year, Number 3, July 2008, pp. 42-45.
2. **MOHAMMED T. OBAIDAT**; Education and Technological Spots, Scientific Research and Entrepreneurship, Afkar Magazine, Jordan Ministry of Culture, Culture and Art, Amman, 3rd Year, Number 349, Feb. 2018, pp. 68-74 .

## F. Chapters in Books

- Effect of Remolding Techniques on Soil Swelling and Shear Strength Properties. By: Mousa F. Attom, Majed M. Abu-Zreig, and Mohammed Taleb Obaidat. Editor: Amer Ali Al-Rawas; Matthieus F. A. Goosen, June 2006. Published in Expansive Soil "Recent Advances in Characteristics and Treatments", Volume 1, Part 4, June 2006, Chapter 10, Pages 127-138. Publisher: Routledge, Taylor and Francis Group.

## G. Presented and Published Papers at Forums, local, or regional Conferences

- **MOHAMMED T. OBAIDAT**; "Fighting Terrorisim through Social Media", Youth Front Conference; Dead Sea, Jordan, 8-9 May, 2015.
- **MOHAMMED T. OBAIDAT**; "Youth, and Social and Voluntary Work".; 6<sup>th</sup> Arab Youth Forum, Arabian Massmedia Center, Amman-Jordan, 8-12 Feb., 2008.
- **MOHAMMED T. OBAIDAT**; "A Look into Jordanian National Culture and its Identity"; the First Conference about Jordanian National Culture and its Identity, Al-Thuria Center, Sponsored by Jordanian Cultural Ministry, Amman-Jordan, 7-8 March, 2008.
- **MOHAMMED T. OBAIDAT**; "King Abdullah Vision toward Higher Education System Development", Third conference: How to implement the King's Vision to Build Recent Jordan; Creative Thinking Center; Amman-Jordan; Oct. 14-16, 2008.
- **MOHAMMED T. OBAIDAT**; "University Student Guide"; The Twenty-Third Yearly Conference for the Arabian Association Responsible for Admissions and Registrations in the Arab Universities; Arab-ACRAO; Jordan University of Science and Technology (JUST); Amman-Jordan; Fifth Paper, 7 pages; 1-4 April, 2002.
- **MOHAMMED T. OBAIDAT**; (2009); "Common Identity and Culture for Jordanians"; The Second Conference for Irbid-City: History and Present; Irbid Cultutal Forum; In Cooperation with Cultural Ministry-Jordan; Yarmouk University, Irbid Nov. 26-27, 11, 2008. Keynote speech paper for the conference- first presented paper; Alshaeb Press, pp. 331-343.
- **MOHAMMED T. OBAIDAT**; "University Environment", National Strategy for Higher Education and Scientific Research workshops in Jordan; Ministry of Higher Education and Scientific Research-Jordan, Mutah University Workshop, 2005.
- **MOHAMMED T. OBAIDAT**; "Cultural Research at the School's Environment Level", the Second Educational Conference for School Students' Research: Student, and Educational Aspiration and Vision; Model School, Yarmouk University, Irbid, April 8-9, 2009.

## **H. BOOKS**

- **OBAIDAT, M. T.**, Adnan Otom, and Nazeeh Hemdy, “Fighting Terrorism from Social, Human, and Cultural Perspectives”; Youth Cultural Series, Number 69, Higher Youth Council, Jordan, 2006, 96 pages.
- **OBAIDAT, M. T.**, Esa Otom, and Diab Bedayneh, “Fighting Terrorism from Information Technology perspectives”; Youth Cultural Series, Number 66, Higher Youth Council, Jordan, 2006, 106 pages.
- **OBAIDAT, M. T.**, "Spot Lights on Youth"; *Arabic Title: Shatharat Shababiah*", Modern Book World, Funded by the Ministry of Culture in Jordan, Number in national library: 2008/11/3921; year 2009, 354 pages.
- **OBAIDAT, M. T.**, "Surveying Manual"; Teaching Materials for surveying laboratories; JUST-Jordan, 72 pages.
- **OBAIDAT, M. T.**, “Face-Book and Youth”, in Press, 500 pages; 2017.
- **OBAIDAT, M. T.**, “An Eye on the Country”, in Press, 500 pages; 2017.
- **OBAIDAT, M. T.**, KASHKOOL OF JORDANIAN FRAGMENTATIONS; June 2021; Publisher: Darwael Publisher Editor: Dr. Anas Al Masri; ISBN: 978-9957-91-846-0; 498 pages.
- **OBAIDAT, M. T.**, Elections Fragments in the time of Corona Pandemic; March 2021; Publisher: Darwael Publisher Editor: ISBN: 978-9957-91-812-5; 189 pages.
- **OBAIDAT, M. T.**, **Jordanian Fragments in the time of Corona Pandemic**; Oct. 2020; Publisher: Darwael Publisher Editor: ISBN: 978-9957-91-812-5; 383 pages.

## **I. PATENT**

- A Modified Theodolite Instrument, **M. T. OBAIDAT** and Zaid Al-Smadi, Ministry of Industry and Trade, Jordan, April 16, 1996. Patent number P/1911.

## **J. AWARDS**

- Awarded the medal of his majesty King Husein Ben Talal of Jordan for Scientific achievement, June 8, 1997.
- Awarded a certificate of research and academic achievement from his majesty King Husein Ben Talal of Jordan, June 8, 1997.
- Awarded “The Scientific Foundation of Hisham Adeeb Hijjawi” for applied science award in the field of “Energy and Informatics” for the year 1998, Jordan. (conferred on Dec. 12, 1998). “For paper entitled: A Stereometric Knowledge-Based System For Maintenance Of

Street Networks, published in the *Canadian Journal of Civil Engineering*, April 1998 issue, Vol. 25, No. 2, pp. 220-231.”

- Awarded the Leica Inc. photogrammetric award from the American Society for Photogrammetry and Remote Sensing in 1992 for research and academic achievements.
- Awarded the Certificate of Excellence of the Yarmouk University Graduates Alumni, April 18, 2009.
- Awarded Kufrsaum Club award for academic achievement; Eleventh Cultural Forum; August 1, 1997.
- Awarded two scholarships from Jordan University of Science and Technology (JUST) to continue MSc and PhD degrees at the University of Illinois at Urbana-Champaign, USA, 1990-1993.

#### **K. MANUALS AND REPORTS**

- W. Wong and M. T. OBAIDAT, “DRSTEREO- A Stereo Measurement System for the PC”, A report of research sponsored by the Army Research Office, Advanced Construction Technology Center (ACTC), University of Illinois at Urbana-Champaign, Document No. 92-45-11, June 1992.
- Author of “Surveying laboratory Manual”, Jordan University of Science and Technology (JUST), Jordan, 100 pages.
- Coordinator to publish a book about the Civil Eng. Dept. at JUST on the occasion of 10 years of its establishment, 1996, 67 pages.
- Author of Manual for “Small Sign Installation”, Southern Polytechnic State University, Office of Continuing Education, Marietta, Georgia, U.S.A., First Edition, 1996.
- Author of Manual for “Traffic Signals”, Southern Polytechnic State University, Office of Continuing Education, Marietta, Georgia, U.S.A., First Edition, 1996.
- Author of a paper about “Fighting terrorism from Social, Human, and Cultural perspectives”; Youth Cultural Series, Number 69, Higher Youth Council, Jordan, 2006, 96 pages.
- Author of a paper about “Fighting terrorism from Information Technology perspectives”; Youth Cultural Series, Number 66, Higher Youth Council, Jordan, 2006, 106 pages.
- Author of a paper entitled “University Environment”, as part of National Strategy for Higher Education and Scientific Research in Jordan; Ministry of Higher Education and Scientific Research-Jordan, 2005.
- Author of “Immediate Remedial Solution to On-Street Parking Problems in Aqaba, Jordan”, Nathan Association Inc. under the Aqaba Zone Economic Mobilization (AZEM Project), USAID funded project, presented and submitted to Aqaba Special Economic Zone Authority (ASEZA) 69 pages, April 2007.





## **L. BOOKS REVIEW**

1. Reviewed a book entitled “Information Technology”, Al-Qudes Open University, Palestine Authority, April 2006.

## **M. WRITTEN ABOUT PROF. OB Aidat**

1. Chapter in a book: “People in Jordan History”; first edition, by Ahmad Al-Horani, 2011; pp. 97-106.
2. At <http://ar.wikipedia.org>

## **N. PROGRAMS EVALUATION AND ACREDITATION:**

Chairman and member of committees to evaluate and accredit many established and existed Civil Engineering and other programs in Jordan and abroad.

## **MASTER STUDENTS SUPERVISION**

1. Khalid Ahmad Ghuzlan (93023603): A Stereometric Knowledge-Based Maintenance System for Urban Roads Network, Sept. 1994. (*Main Advisor*) – (*Currently, an assistant professor at JUST, Jordan*).
2. Ghassan T. Abdul-Jabbar (93023618): Field Inspection and Laboratory Testing of Highway Pavement Rutting in Jordan, March 1995. (*Co-Advisor*) – (*Currently, a transportation company director in Iraq*).
3. Ahmad Falah Obaidat (95023615): Evaluation of bituminous mixtures stripping using conventional and image processing techniques, Sept. 1996. (*Main Advisor*) – (*Currently, Al-Kfarat Municipality Director; Irbid, Jordan*).
4. Olfat Ibraheem Al Haji (96023603): Development of a knowledge-based system for pedestrian road crossing behavior through video cameras, Sept. 1996. (*Main Advisor*) – (*Currently, Aidon Municipality Director; Irbid, Jordan*).
5. Ibraheem I. Al-Sadi: Geometry of Intersection Effect on Drivers Behavior using Vision System, May, 1997. (*Main Advisor*) (*Passed Away*).
6. Sheraf Al-Kheder: Integration of GPS, GIS, and vision systems for Studying Road Conditions in Irbid City; Oct. 2001 (*Main Advisor*) – (*Currently, an assistant professor at Yarmouk University, Jordan*).
7. Anas Ahmed Nemer Mohammed: Travel Time and Consistency Performance Measures Utilizing GIS and GPS”, Nov. 2005, (*Main Advisor*) – (*Currently, a consulting firm director in Saudi Arabia, Al-Reyad*).
8. Randa Oqab Mujalli; (20043023023); Spatial Analysis for Public Transportation- Case Study: Amman-Jordan, Feb. 2006. (*Main Advisor*) – (*Assistant Prof. at Hashemite University; Graduated from Granada University, Spain*).

9. Bara W. Mestareehi; Integration of GIS and Paver System for Pavement Maintenance Management System; Oct. 2008- Sept. 2009. (PhD student at University of Stuttgart; Germany)
10. Danya Amjad Qutaishat; A User Friendly GIS-Based Highway Maintenance System; June 2014 (Full-time lecturer at Al-Albait University).
11. Maei Alawneh; Micro-analysis of VMA using Cellular Phones and Image Processin Technique, March 2015.
12. Tamara Bani Ata; Integration of New Technologies and Cellular Phones for Arterial Roads Maintenance Evaluation, March 2016.
13. Ahmed Salem Al-Hjouj; Geometric Interchanges Consistency in Jordan; May 2016.
14. Tasneem Khwaileh; Cellular phone mapping for traffic parameters, April 2017.
15. Maisa' Hajahjeh; Public transportation Scenarios for Irbid City through GIS, March 2017.
16. Batool Bani-Mustafa; Evaluation of Stationary Traffic Patrol Cameras on Jordanian Highways; Oct. 2017
17. Amneh Abu-Yamen; Evaluation of Stationary Traffic Patrol Cameras on Jordanian Urban Roads: Case Study-Amman; Oct. 2017
18. Amjed Shareedeh Bani-Saker; Studying Drivers' Behavioral Habits at highways Using Geometrical Elements; Sept. 2018
19. Shaden Maddallah Kaabnih; Operational Performance Comparison between Roundabouts Controlled by police Enforcement and Roundabouts Controlled by Metering Signals (Jordan University); Dec. 2018.
20. Neveen Mohammed Alqaisi; Operational Performance Analysis of Implementing Alternative Intersections on Urban Arterial Roads and Intersections; (Jordan University); Dec. 2018.
21. Rawan Al-Smadi; Investigating the effect of geometric design elements effect on highway accidents in Jordan, March 2019, JUST, Jordan.
22. Amjed Marashdeh; Construction Management Projects Success Factors; Jadara University, Jordan, Sept. 2021. (Main-Supervisor).
23. Rashed Rababea; Construction Management Projects Live lines; Jadara University, Jordan, Sept. 2021. (Co-Supervisor).

### **MASTER THESES EXAMINING COMMITTEES**

1. Khalid Ahmad Ghuzlan (93023603): A Stereometric Knowledge-Based Maintenance System for Urban Roads Network, Sept. 1994. (*Chairman and Advisor*)
2. Ghassan T. Abdul-Jabbar (93023618): Field Inspection and Laboratory Testing of Highway Pavement Rutting in Jordan, March 1995. (*Co-Advisor and member*)
3. Ahmad Falah Obaidat (95023615): Evaluation of bituminous mixtures stripping using conventional and image processing techniques, Dec. 29, 1997. (*Chairman and Advisor*).

4. Ahmad Al-Harabsheh (95023626): Estimation of Vehicle Parking Demand for Different Land Uses in Jordan, Dec. 27, 1997. (*Member*)
5. Khaled Khalil Al-Hammouri: Roadway Consistency under Adverse Weather Conditions, August 8, 1998. (*Member*)
6. Olfat Ibraheem Al Haji (96023603): Development of a knowledge-based system for pedestrian road crossing behavior through video cameras, May 1998. (*Main Advisor*)
7. Sheraf Al-Kheder: Integration of GPS, GIS, and vision systems for Studying Road Conditions in Irbid City; Oct. 2001 (*Main Advisor*).
8. Eklas Gftan Al-Zo'bi: Rescue Time for Nearest Hospitals in Northern Parts of Jordan; 2005. (*Member*)
9. Najah J. Al-Omosh (20033023021): Traffic Volume Forecasting For Rural Highways in Jordan, March 2006, (*Member*)
10. Mohammad Samih Ahmad: Rigid Pavement Utilization Using High Strength Concrete in Jordan, Jordan University, Dec. 2006 (*Member*).
11. Anas Ahmed Nemer Mohammed: Travel Time and Consistency Performance Measures Utilizing GIS and GPS", Jan. 2007, (Chairman and Main Advisor).
12. Randa Oqab Mujalli; (20043023023); Spatial Analysis for Public Transportation- Case Study: Amman-Jordan, Jan. 2007 (Chairman and Main Advisor).
13. Ma`en Samara; Traffic Attraction Models in Amman Malls; Jordan University, May 2008. (External examiner - Member).
14. Ibrahim Mohammad Abu Awad; Study of Driver Perception Reaction Time in Jordan, Dec. 4, 2008. (External examiner - Member).
15. Bara W. Mestareehi; Integration of GIS and Paver System for Pavement Maintenance Management System; August 2009; (Chairman and Main Advisor).
16. Suzanne Al-Jazzazi; A Study of Factors Affecting Highway Accident Rates in Jordan; Dec. 2012; Jordan University; External Examiner-Member.
17. Bassam Baha-Elden Salameh; Developing Roadway Traffic Noise Prediction Models for the City of Amman; Jordan University; Dec. 8, 2013; Member.
18. Amani Soud Al Taamsea; Accessibility and Traffic Impact Assessment of Madaba City: Before and after being Tourist City Analysis; Jordan University; Dec. 24, 2013; Member.
19. Danya Amjad Qutaishat; A User Friendly GIS-Based Highway Maintenance System; June 2014.
20. Maei Alawneh; Micro-analysis of VMA using Cellular Phones and Image Processin Technique, March 2015.
21. Tamara Bani Ata; Integration of New Technologies and Cellular Phones for Arterial Roads Maintenance Evaluation, March 2016.
22. Ahmed Salem Al-Hjouj; Geometric Interchanges Consistency in Jordan; May 2016.
23. Aseel Ahmad AbuRumman; Suitability of Jordan Aggregates Soundness, Absorption and Surface Texture to Superpave; The University of Jordan; June 2017.
24. Rolla Anwer Ellayan; Operational Evaluation of Roundabout Metering Signals, The University of Jordan; July 2018.

25. Rahaf Nayel Al-Hashem; Development of Passenger Car Equivalency Values at Urban Signalized Intersections, The University of Jordan; July 2018.
26. Ala' Kharabsheh; The University of Jordan; April 2019.
27. Rahma Hiary, The University of Jordan; July 2019.

#### **Ph.D. STUDENTS SUPERVISION**

- Raad Awad Kattan, “Accuracy Aspects of Analytical Digital Terrestrial Close-Range Photogrammetry Using Non-Metric Cameras’, Building and Construction Eng. Dept., University of Technology, Iraq, 2004- 2005. Co-supervisor.
- Shatha Aser Aldalaeen; “Co- supervisor”, Universiti Sains Malaysia; “Highway Geometric Elements Impact into Road Accidents in Jordan; Jan. 2019

#### **B.Sc. GRADUATION PROJECTS SUPERVISION**

Supervised more than 300 graduation project in geometric design of highways, Geomatics Engineering (GIS, GPS, surveying, remote sensing, etc.), and transportation engineering.

#### **ACTIVITIES, COMMUNITY SERVICE AND COMMITTEES**

- **International and Regional Levels:**
  - Head of mission for Jordanian Delegation to the 21 universaide at Beijing-China; participation included sport games in fencing, table tennis, and athletics. International Sport Federation. (August 10, 2001-Sept 1, 2001).
  - Participating in the “World Economic Forum-Jordan 2005”, Dead Sea, May 20-22, 2005. Accompanying delegation to the Jordanian Minister of Higher Education and Scientific Research.
  - Head of Board of Trustees of the Worldwide Humanity Leadership Association; since 2012-Present.
  - Member of the International Scientific Committee of ICTTE Belgrade 2016 Conference, Belgrade, Serbia, Nov. 24-25, 2016
  - Member of the scientific committee of the 15<sup>th</sup> International Road Safety on Four Continents Conference; organized by the Swedish National Road and Transportation Research Institute (VTI) as well as the National Transport Authority in Abu Dhabi, the United Arab Emirates (UAE); March/April 2010, [www.vti.se](http://www.vti.se);
  - One of the founders of International Education and Resource Network (IERN), Jordan, since May 2005.
  - Participating in the Erasmus Plus project in Greece through the period May 21, 2017-May 28, 2017.
  - One of the founders of Prince Hasan-Jordan award in the U.S.A.
  - Member of Jordanian Chapter of the Alumni of the graduates of University of Illinois at Urbana-Champaign, since 1993 – present.
  - Community Aide and leader for cultural diversity programs for more than three years, Urbana, IL, U.S.A. (1990-1993).
  - Member of Community aids Advisory Committee for Orchard Downs, Urbana, IL, U.S.A. (1993).
  - Member of Orchard Downs Council, Urbana, IL, U.S.A. (1990-1993)
  - Represented Jordan in the Arab Sport Forum at Abu Dabie, April 15-21, 2001. In coordination with International Sport Federation.

- Head of Jordanian delegation to Arab Universities Sport Tournament, Yemen, 2002.
  - Listed in Marquis *Who's Who*, World, and *Who's Who*, America, 15<sup>th</sup>-Now editions, 1998 till Now
  - Member of Jordan Alumni Society, Graduates of U.S. Universities and Institutes, Amman-Jordan.
  - Member of the academic honor society *Phi Kappa Phi* ( φκφ)
  - Member of the academic honor society *Tau Beta Pi* ( τβπ)
  - Member of the American Society of Photogrammetry and Remote Sensing.
  - Member of the American Society of Civil Engineers (ASCE).
  - Member of Saudi-Jordanian Female Blind Association.
  - Member of Al-Yarmouk Funding University Students Association.
  - Member of Kufrsuam Cultural Forum.
  - Member of Arab Thoughts Forum.
  - Member of Indian Roads Congress (IRC), OM-22030.
  - Member of Arab Scientist and Technologists Abroad Association (ASTA).
- **National Level:**
    - President of Al-Hasan Youth Award Counseling & Steering Committee, Since August 2020.
    - President of Jordanian Universities Sports Federation, since Jan. 2000 till August 1, 2002.
    - Honorable chairman of Bani-Kananah Mass Media Association, since Dec. 2015.
    - Chairman of First Bani-Kananah Development Conference, June 2015; to be held on May 8, 2016.
    - Member of the Higher Council of Youth, Jordan, since June 16, 2004 till now.
    - Chairman of the Scientific Committee of the fifth International Traffic Safety Conference, Jordan, April 22-24, 2008.
    - Member of the Board of Trustees of Jadara Private University, Jordan, since Nov., 2013 till Present.
    - Vice president of the Board of Trustees of Jarash Univ. since July, 201; and was member of the Board of Trustees of Jarash Private University, Jordan, since July 24, 2006 till 2010.
    - Coordinator of the youth committee at the Higher Council of Youth, Jordan, since June 16, 2004.
    - Chairman of a committee to establish a unit for employment and graduation follow-up at Jordanian Universities, Ministry of Higher Education and Scientific Research, Meeting 66/2005, Since Sept. 19, 2005.
    - Chairman of accreditation committee to establish a Civil Eng. Dept. at Al-Hussein University, M'aan, Jordan, May 2008.
    - Member of the Board of Trustees for the “Innovative Youth Club”, Higher Council of Youth, Jordan, since April, 2005.
    - Member of National Committee-Higher Youth Council, Jordan; Since Jan. 2004.
    - Member of the National Committee for Jordanian Road Evaluation -for the European Commission Project, Ministry of Public Works and Housing (MPWH), Jordan, Since Oct. 2009.

- Member of Achievement Exam Committee for Civil Engineering, Ministry of Higher Education and Scientific Research (2007/2008).
- Initiative of many programs in Jordan such as: Talented Clubs, Placement Offices and follow-up offices at Jordanian Universities, University Environment Key Performance Indicators, Professors Prizes at Jordanian Universities, Talented Students Commission, Talented Students Forum, Intercultural clubs, many others.
- Member of Jordanian Olympic Committee since Jan. 2000 till July 2001.
- Participated in the development of Jordan national agenda (2006-2015); Education, Higher education, Research and Innovation theme. 2005 and 2006
- Member of Jordanian National Demographic Committee, since June 2000 till present.
- Member of Jordanian Universities Sports Federation, since August 1, 2002 till Sept. 1, 2004.
- Member of the executive committee to establish courier council offices at Jordanian universities, King Abdullah the Second Fund for Development, Jordan, 2003-2004.
- Member of “University Environment” committee, Ministry of Higher Education and Research, Jordan, Since Nov. 23, 2004.
- Member of studies and research committee of the higher council for youth (Youth leadership Center), since Oct. 15, 2002.
- Member of accreditation committee for Civil Eng. Dept. at Applied Science University, Jordan, Sep. 2005.
- Member of Scientific Committee of the "Fifth Traffic Safety Conference in Jordan 2008"; Road and Traffic Safety Strategies, 22-24 April, 2008; Amman, Jordan.
- Member of the Jordanian National Remote Sensing Committee, Royal Jordanian Geographic Center, Jordan, since Feb. 1994.
- Honor president of Kufrsaum-Jordan youth forum, since 2003.
- Member of Handicap Sports Federation, since June 2000 till present.
- Member of Jordanian Academic Staff Association, Irbid, Jordan, since 2003.
- Chairman of accreditation and quality assurance committee, Jarash Private University, Jordan, since July 24, 2006 till present.
- Chairman and Member of General and Specialty Accreditation for Civil Engineering Departments of the following Universities: Al-Husain Ben Talal, Amman Private University, and Applied Science University.
- Member of academic and administrative committees, Jarash Private University, Jordan, since July 24, 2006 till present.
- Member of the evaluation and planning committee to study the conversion of the surveying community college in the Royal Jordanian Geographic Center to give bachelor degree, Jordanian Higher Education Council resolution (Ministry of Higher Education), 1994.
- Member of a committee to put the curriculum of undergraduate and graduate courses for surveying and earth science departments at Al-Balqaa Applied Science University.
- Member of the committee of counseling, follow-up, and consultation to author computer books for high schools in Jordan (sum-up to seven books), Ministry of Education, 1995.
- One of the founders of Al-Qestal Conservation Association-Amman, a historical place.
- Referee of Al-Derasat journal, Mu'ta University, Jordan.
- Member of many social and sport clubs.
- Member of the cultural committee at Kufrsaum Club, Kufrsaum, Jordan, (1984-1994)

- Member of the parents and teachers council, Model Secondary School, Yarmouk University, 1996 and 1997.
- Member of the educational development committee for Al-Hussein school, and Kufrsaum schools, Beni Kenana Educational District (1994).
- Lecturing at the Jordanian Professional Engineering Association about computer vision, remote sensing, and close-range photogrammetry.
- Member of teachers' promotion committees in Bani-Kenana, Al-Kora and Al-agwar Al-Shamalia educational directorate since 1/1/2004.
- Member of "Fighting Terrorist and Modest Culture for youth" Committee, Higher Youth Council, 2005.
- Member of Jordanian Professional Engineers Association since 1983.
- Member of Society for the Prevention of Road Accidents, JORDAN.
- Member of Jordanian Academic Staff Association, Irbid, Jordan, since 2003.
- Author of a paper about "Fighting terrorism from Social, Human, and Cultural perspectives"; Higher Youth Council, Jordan, 2006
- Member of parent councils for Model school at Yarmouk University, Jordan (1994-1998); and King Abdullah the Second School for Distinguished Students (2005-2006).
- Member of a committee of writing a proposal for "TEMPUS-European Commission – Erasmus Mundus Programme", Higher Education and Research Ministry, Jordan, Dec. 2006.
- Chairman of a committee to prepare Key Performance Indicators (KPI's) for University Environment; Higher Education, Research and Technology, Higher Education and Research Ministry, Jordan, 2006-2007.
- Chairman of a committee to prepare Regulations and Duties for the "Universities Follow-up Units", Accreditation Council, Higher Education and Research Ministry, Jordan, Nov. 2006.
- Member of a committee to develop "A higher Education Bulletin in Jordan", Higher Education and Research Ministry, Jordan, Dec. 2006.
- Chairman of the evaluation committee of Geomatics and transportation engineering graduates at the Civil Society Bureau, Jordan, Since Jan. 2007.
- Counseling committee member and writer of weekly articles of Youth, politics, education and economic Annex at Al-Dustour daily newspaper, since 2007 till present.
- One of the founders of Human Resources Development Center in Northen Part of Jordan, May 2008.

- **University Level:**

- Dean of Student Affairs; at JUST, Jan. 1999 till Sept. 1<sup>st</sup>, 2004.
- Vice-Dean of Student Affairs; at JUST, August 1998- Jan. 1<sup>st</sup>, 1999.
- Member of Executive Graduation Committee at JUST, since 1999 till Sept. 1<sup>st</sup>, 2004.
- Member of Yearly book Committee at JUST, since 1999 till Sept. 1<sup>st</sup>, 2004.
- Member of deans' council, university council, and graduate college council at JUST, since Jan. 2000 till Sept. 1<sup>st</sup>, 2004.
- Coordinator to build a GIS database for building's occupation at JUST (Dec. 1999).
- Chairman of student loans committee at JUST, Jan. 2000, Sept. 2004.
- Coordinator for water harvesting committee at JUST since Nov. 1999.
- Member of employees committee at JUST since July 1999 till August 2001.



- Member of Ideal employee committee at JUST, since 1999 till Sept. 1<sup>st</sup>, 2004.
- Member of the committee for traffic accidents evaluation and enhancement at Jordan University of Science and Technology (JUST); Dec. 2000.
- Consultative and Scientific member for “Meraat Al-Technologia” Magazine, The official magazine for Jordan University of Science and Technology (JUST), since June 1997.
- Member of Jordan University of Science and Technology (JUST) employee Committee since July 1999 (University Level).
- Member of Jordan University of Science and Technology (JUST) Executive Graduation Committee since October 1999 (University Level).
- Member of Jordan University of Science and Technology (JUST) Committee to Use the Students’ Activities Building for Permanent Registration, since August 1999 (University Level).
- Coordinator for Transportation section at J.U.S.T. (1995-1998, 2005 and 2006).
- Coordinator for social committee, library and other committees, and supervisor for surveying and photogrammetry labs at J.U.S.T.
- General Secretary for the civil engineering council at JUST. 1995, 1996 and 1997.
- Member of proposing “Electronic Maintenance Center at JUST”. 1995
- Member of graduate studies, research, graduate studies, selection of specialization, laboratories, students’ evaluations, library, seminars, and courses evaluations committees at the Civil Eng. Dept. at JUST (1994-now).
- Coordinator for Civil Eng. Dept. Committees of: Seminars and Community Service during 1998/1999.
- Coordinator to publish a book about the Civil Eng. Dept. at JUST on the occasion of 10 years of its establishment, 1996.
- Coordinator for civil engineering students’ union election, Jordan University of Science and Technology, Jordan (1995, 1996 and 1997).
- Member in the committee prepared for the workshop entitled “Linkage between universities, production and service sectors“, held at Jordan University of Science and Technology, Jordan, Sept. 24, 1997.
- Member of a committee to deal with students’ problems at JUST outside their faculties (University Level).
- Member of technical committee for the “Evolution of Information Technology” conference” to be held at Jordan University of Science and Technology (JUST) in August 1997, in collaboration between JUST and Arab Scientist and Technologist Abroad (ASTA).
- Advisor and consultant for opinion and other opinion student’s club at Jordan University of Science and Technology (JUST), since fall 1997.
- Organizing many Social, Cultural, Political, Art, etc activities at JUST and to the local community.
- Member of Jordan University of Science and Technology (JUST) academic staff association, since establishment in 2003.
- Supervisor for labs of: Surveying, Photogrammetry, Computer Vision, Bituminous Mixtures, and GIS at Jordan University of Science and Technology (JUST), since 1994-present.
- Editor-In-Chief for “Rehab Al-Jamea” newspaper, and Meraat Al-Technologia Magazine, Jan. 2000 - Sept. 2004.

- Member of selection committee of "Erasmus Mundus" mobility project, Tempus Window, 2007-2010.
- Chairman of scientific committee of the fifth International Traffic Safety Conference in Jordan, Amman, Jordan, 22-24 April, 2008.
- Chairman of two sessions in the fifth International Traffic Safety Conference in Jordan, Amman, Jordan, 22-24 April, 2008.

### **HONOR AND PROFESSIONAL MEMBERSHIPS**

- Patent on "A modified theodolite instrument", Ministry of Industry and Trade, No. 1911, April 16, 1996, Jordan.
- Listed in Marquis *Who's Who*, World, and *Who's Who*, America, 15<sup>th</sup>-Now editions, 1998 till Now.
- Member of the Jordanian National Remote Sensing Committee, Royal Jordanian Geographic Center, Jordan, since Feb. 1994.
- Honor degrees in Ph.D., M.Sc., and B.S.
- Advanced Construction Technology Center (ACTC) Fellowship for three years; University of Illinois at Urbana-Champaign, USA, 1990-1993.
- Member of Jordan Alumni Society, Graduates of U.S. Universities and Institutes, Amman-Jordan.
- Member of the academic honor society *Phi Kappa Phi* ( φκφ)
- Member of the academic honor society *Tau Beta Pi* ( τβπ)
- Member of the American Society of Photogrammetry and Remote Sensing.
- Member of the American Society of Civil Engineers (ASCE).
- Member of Indian Roads Congress (IRC), OM-22030.
- Member of Jordanian Professional Engineers Association.
- Member of Arab Scientist and Technologists Abroad Association (ASTA).
- Member of Society for the Prevention of Road Accidents, JORDAN.
- Member of Jordanian Academic Staff Association, Irbid, Jordan, since 2003.
- Dean list for 3 semesters during undergraduate study.
- Dean list for all semesters during the graduate study

### **RESEARCH INTERESTS**

- Transportation Engineering and Intelligent Transportation Systems (ITS).
- Applications of Advance Vision Technology.
- Geographical Information Systems (GIS) and mapping.
- Analytical and Digital Photogrammetry.
- Mathematical and Stochastic Modeling for Adjustment of Observations.
- Plane Surveying
- Computer Vision Systems.
- Automation and Machine Vision.
- Remote Sensing Processing.
- Neural Networks

### **RELEVANT RESEARCH EXPERIENCE**

At Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan

- Potential of Computer vision cellular-phone-based measurements systems.
- GIS as a tool for public transportation planning and administration, accident analysis, pedestrian accident, distresses classification, parking studies, public transportation, pedestrian studies, traffic analysis, planning, spatial studies, travel time, routing, maintenance, etc.
- Integration of GIS, GPS, and Computer Vision systems for Pavement Distresses Classification.
- Immediate Remedial Solution to On-Street Parking Problems in Aqaba, Jordan.
- Development of a knowledge-based system for pedestrian road crossing behavior through video cameras.
- Using vision technology to evaluate pedestrians' roadway crossing and driver's behavior at intersections.
- Studying the relationship between air pollution, land-use, traffic congestion, population distribution, topography, and types of vehicles in use using GIS.
- A stereometric knowledge-based system for maintenance of street network.
- A semi-automated image-based approach to quantify VMA and aggregate size.
- Information Technology developments to Road Maintenance Management Systems (RMMS).
- Evaluation of road maintenance system in Jordan.
- Development of a vision system to measure traffic parameters.
- Development of a graphical-digital system for road maintenance priorities.
- Study the potential of close-range photogrammetry in pavement segregation evaluation.
- Development of an educational system for photogrammetry and plane surveying.
- Geographic Information Systems (GIS) Technological Applications in the Civil Engineering Areas; transportation engineering, traffic engineering, etc.
- Global Positioning Systems (GPS) Technology Usage in Coordinates Determination.
- Integration of GIS, Remote-Sensing, and GPS.
- Evaluation of bituminous mixtures stripping using conventional and image processing techniques.
- Parametric studies on planar wall calibration for CCD cameras.
- Monitoring of monuments and archeological sites using ground-based photogrammetry.
- Influence of aggregate type and gradation on voids of asphalt concrete pavements.
- Development of a modified theodolite instrument.
- A new methodology for evaluating geometric performance of highways.
- Potential of computer vision in quantification of rut depth.
- Development of a more sophisticated stereometric vision system.
- Innovative approach toward better road maintenance management systems
- Integration of knowledge-based construction management with metric vision
- Soil structure interaction of highly expansive Irbid soil
- Development of a vision system application for payment arrangement for construction.
- Studying the potential of close-range photogrammetry in geotechnical engineering, agriculture, and pavement rehabilitation.
- Development of a knowledge-based system for pavement maintenance.
- Integration of computer tools toward computerized educational system.
- Development of digital maps and hazardous locations for landslides in Jordan.

- Development of an automated stereometric knowledge-based CAD system for construction management
- Studying vegetation distribution using ancillary and remote sensing data
- Assessment of road conditions using artificial neural network
- The effect of misalignment on structural behavior of some selected buildings constructed in Jordan

At the Advanced Construction Technology Center, University of Illinois at Urbana-Champaign, Urbana, Illinois, U.S.A.

- Combined traditional and state-of-the-art ideas of PC-based vision systems to produce a new stereometric vision system.
- Designer and developer of a DRSTEREO software package for three-dimensional measurement.
- Developer and designer of innovative ideas for a CCD camera calibration software package using planer object constraint from construction sites, without using 3-D control field.
- Designed and developed a knowledge-based system for close-range photogrammetry.
- Participating in developing a stereo computer vision system for three-dimensional gaging to map human bodies.
- Rapid and robust algorithms to generate information on a 3-D scene from construction site stereo images on the Personal Computer.
- Initiated, collaborated, and lead team projects with professors and graduate students that resulted in many scientific publications.
- Involve in designing a vision system to measure some traffic parameters.

### **TEACHING (TAUGHT COURSES)**

At Jordan University of Science and Technology (J.U.S.T.), Irbid, Jordan

#### **A. B.Sc. Level:**

- Geometric design of roads and highways (Route Surveying) CE 443
- Transportation Engineering CE 441
- Advanced Transportation Engineering CE 541
- Plane Surveying (for Civil Engineering Department) CE 341
- Photogrammetry Lab. CE 542
- Bituminous Mixture Lab. (Highway Lab.) CE 444
- Digital and Analytical Photogrammetry CE 542
- Pavement design and Highway Maintenance CE 442
- Engineering Drawing CE 200
- Surveying for Architectural Engineering Department, Arch. 321; CE 342
- Surveying for Agricultural Engineering Department, Ag. Eng 461
- Geodesy CE 542
- Surveying Lab. (for Civil and Agricultural Eng. Departments) CE 343, Ag. Eng. 462
- Conservation Technology and Documentation of Historical Buildings and Sites (Arch. Eng. 532)
- Graduation project I CE 591
- Graduation project II CE 592

#### **B. M.Sc Level:**

- New Trends in Transportation Engineering (Stereo Vision, Digital Photogrammetry, GIS, Remote Sensing, etc.) CE 784
- Advanced Analogue, Analytical and Digital Photogrammetry; CE 704
- Advanced Technologies in Transportation Engineering CE 748
- Advanced Applied Mathematics CE 701
- Advanced Applications of Geographic Information Systems (GIS); WDM 712; Water Demand Management Program (WDM).
- Master thesis CE 799
- **C. Ph.D. Level:**
- Digital Mapping for Geographic Information Systems (GIS); CE 848.

At the Applied Science University (ASU), Amman, Jordan; Sabbatical leave (2017-2018)

- Plane Surveying for Civil Engineering Department
- Surveying and Photogrammetry Labs.
- Highway Geometric Design
- Transportation Planning in Urban Area
- Pavement Design
- Graduation Projects (I & II)

At the Jordan University of Petra (University for Women), Amman, Jordan

- Plane Surveying Architectural Engineering Department
- Surveying and Photogrammetry Labs.

At the University of Illinois at Urbana-Champaign, Illinois, U.S.A.

- Surveying and Photogrammetry Labs.

At the University of Jordan, Sabbatical leave (2012-2014).

- Highway and Traffic Engineering
- Surveying Engineering (for Civil and Architectural Engineering).
- Surveying Laboratory.
- Advanced Highway Geometric Design (Master Level).
- Advanced New Technologies in Transportation Engineering (Master Level)
- Photogrammetry.
- Photogrammetry Lab.

At the American University of Madaba (AUM), Jordan (2012-2014)

- Plane Surveying for Civil Engineering Department
- Highway Geometric Design
- Transportation Engineering.
- Pavement Design
- Surveying Lab.

**RELATED STUDIED COURSE WORK**

Ph.D. Courses:

1. Adjustment of Observations

2. Development of Highway Facilities
3. Traffic Flow Theory
4. Special Problems on Geographic Information Systems (GIS)
5. Computer Methods in Civil Engineering
6. Computer Vision in Intelligent Vehicle Highway Systems (IVHS); currently ITS
7. Statistics and Probability I
8. Statistics and Probability II
9. Analytical Photogrammetry I
10. Analytical Photogrammetry II
11. Digital Photogrammetry I
12. Digital Photogrammetry II
13. Satellite Surveying
14. Remote Sensing I
15. Remote Sensing and Image Analysis
16. Linear Transformation of Matrices
17. Neural Networks in Engineering Applications
18. Computer Methods in Civil Engineering

M.Sc. Courses:

1. Design of Bituminous Mixes
2. Highway Design
3. Theoretical Soil Mechanics
4. Design of Earth Structures
5. Applied Statistics
6. Pavement Design
7. Transportation Economics
8. Airport Planning
9. Advanced Mathematics

**SOFT SKILLS EXPERIENCE**

- Lecturing and giving workshops and seminars in soft skills including: leadership and communication skills, dialogue, time management, problem solving, etc.
- Lecturing and giving workshops and seminars in the themes and terminologies of political and economic developments.
- Planning and implementation of many conferences, workshops, and seminars related to youth, university environment, and university students topics.
- Planning and implementation of many local, regional, and international youth exchange programs.

**PROFESSIONAL AND SCIENTIFIC MEETINGS**

- Participating in the “World Economic Forum-Jordan 2005”, Dead Sea, May 20-22, 2005. Accompanying delegation to the Jordanian Minister of Higher Education and Scientific Research.
- Participating in the 7<sup>th</sup> Traffic Safety Conference, Jordan 15, Jordan Traffic Institute, Public Security Directorate, Amman 12-13 May, 2015.
- Participating in the “10<sup>th</sup> Transport Engineering Conference” (CIT 2012); University of Granada, Spain, June 20-22, 2012.

- Participating in the 11<sup>th</sup> International Conference on Computational Structures Technology (CST2012) and the 8<sup>th</sup> International Conference on Engineering Computational Technology (ECT2012); Organized by Civil-Comp Press, Stirlingshire, UK; 4-7 Sept. 2012, held in Dubrovnik, Croatia.
- Participating in the 14<sup>th</sup> International Conference on Civil, Structural and Environmental Engineering Computing (CC2013); Organized by Civil-Comp Press, Stirlingshire, UK; Cagliari, Sardinia, Italy; 3-6 September 2013.
- Participating in the fifth International Traffic Safety Conference in Jordan, Amman, Jordan, chairman of scientific paper, scientific papers submission, and chairing sessions, 22-24 April, 2008.
- Participating in Jordanian Higher Education and Research Forum, Feb. 11-12, 2007, Dead Sea-Jordan, Higher Education and Scientific Research Ministry of Jordan.
- Participating in the "Tempus in Touch" conference, organized by Tempus office at the Ministry of Higher Education and Research, Jordan; April 9-10, 2006.
- Participating in the first "Closed Symposium" about higher education in Jordan under the patronage of Minister of Higher Education and Scientific Research, Wed. August 31, 2005.
- Participating in Tempus project meetings, Erasmus Mundus external window, Italy, Bologna, Sep. 1 – Sept. 6, 2007; Lund-Sweden, Sept. 2008; and AUB Beirut-Lebanon, 2009. Official Representative for Jordan University of Science and Technology (JUST).
- Participating in the first "Jordanian Conference on Accreditation and Quality Assurance of Higher Education", 13–15 Dec, 2005; Minister of Higher Education and Scientific Research; Amman, Jordan.
- Participating in the workshop about "Employment Support Services Workshop", entitled "Assessment of Gaps Between Knowledge Skills Acquired Through Higher Education and Labor Market Demands Project", Higher Education and Labor Market Project, UNDP, Dead Sea, King Hussein Bin Talal Convention Center", Dec. 15, 2005. (Organizer and key note speaker). Presented a paper entitled "Placement and Tracer Studies Office".
- Participating in the 1<sup>st</sup> and 2<sup>nd</sup> Jordanian Youth Forum in the dead sea under the patronage of his majesty King Abdullah the 2<sup>nd</sup>, May 2003 and July 2004.
- Participating in the "Third Transportation and Roads Conference", organized by Jordanian Engineering Association, Amman, March 26-28, 2007.
- Participating in the 13<sup>th</sup> International Conference on Road Safety - Warsaw, Poland on October 5-7, 2005. Under the title "Road Safety on Four Continents-2005". Organized by the National Swedish Road and Transport Research Institute (VTI), with active involvement of GRSP (Global Road Safety Partnership), FERSI (Forum of European Road Safety Research Institutes), TRB (Transportation Research Board), CSIR of South Africa and ECTRI (European Conferences of Transport Research Institute).
- Participating and lecturing in the "Jordanian National Higher-Educational Conference and Workshops" Higher-Education and Research Ministry, March 2005; Paper title: "University Environment".
- Participating in the "Traffic Safety on two Continents" Conference – Traffic Engineering and New Technology, Swedish National Road and Transport Research Institute, Malmo, Sweden, Sept. 20-22, 1999.
- Participating in the first Jordanian Conference on Traffic Engineering and Environment, Jordanian Engineers Association, Civil Engineers Chapter, Amman-Jordan, 13-15 May 1997. Presented a paper "Feasibility of the Deployment of Intelligent Transportation Systems (ITS) In Jordan".

- Participating in the Sixth International Conference in: Development and Application of Computer Techniques to Environmental Studies (ENVIROSOFT 96), Como, Italy, 18-20 Sept., 1996. Presented a paper “Studying vegetation distribution using ancillary and remote sensing data: a case study”.
- Participating in the Second International Conference in Civil Engineering on Computer Applications: Research and Practice, ICCE-96, University of Bahrain, College of Engineering, April 6-8, 1996, Bahrain. Presented a paper “Feasibility of Using Artificial Neural Networks in Assessing Pavement Condition”.
- Participating in the TRB 75th annual meeting to be held in Washington D.C., Jan. 7-11, 1996. Presented a paper “Innovative Approach toward Better Road Maintenance Management Systems”.
- Participating in the Second Jordanian Scientific Week, “National Policies for Science and Technology, and the Role of Defense Resources in Development Service”, the Royal Cultural Center, Amman, Jordan, August 3-9, 1994. Higher Council for Science and Technology, Jordanian Army and Arab Scientist and Technologist Abroad (ASTA).
- Participating in the Second International Conference and Exhibition, VIDEA 1995, Visualization and Intelligent Design in Engineering and Architecture, Spain, 12-14 June 1995. Presented a paper “An automated stereometric knowledge-based CAD system for construction management”.
- Participating in the International Conference on Computer and Information Systems (ICCIS), Applied Science University (ASU), Amman, Jordan, July 30 - August 1, 1994.
- Participating in the Close Range Techniques and Machine Vision Intercongress Symposium, 1-4 March 1994, Melbourne, Australia, International Society of Photogrammetry and Remote Sensing (ISPRS). Presented two papers: 1) “CCD Camera Calibration Using Planer Constraint”; and 2) “A Knowledge-Based System for Stereo Video Measurement”.
- Guest speaker and representative for the Arab Scientist and Technologist Abroad (ASTA) in the graduation party for Jordanian students in Chicago area, which was organized by Al-Fuhais Association, Chicago, U.S.A., July 1993.
- Participating in the International Society of Photogrammetry and Remote Sensing Convention (ISPRS), Washington D.C, Aug. 3-8, 1992.
- Participating in the American Society of Photogrammetry and Remote Sensing Convention and American Congress on Surveying and Mapping (ASPRS/ACSM/RT), Washington D.C, Aug. 3-8, 1992. Presented a paper “DRSTEREO- A Stereo Measurement System for the PC”.
- Participating in the Industrial Vision Metrology Conference, 11-12 July, 1991, Winnipeg, Manitoba (Canada), sponsored by SPIE. Presented a paper “Three-Dimensional Gauging with Stereo Computer Vision”, presented in the Industrial Vision Metrology”.
- Participating in the 39, 40, 41, and 42 Annual Illinois Traffic Engineering and Safety Conference, Urbana, Illinois, U.S.A., Oct. 21-22, 1990, 1991, 1992, and 1993.
- Lecturing at the Jordanian Professional Engineering Association about computer vision, remote sensing, and close-range photogrammetry (Nov. 19, 1994).
- Participating in the Computer and Communication Systems (CCS) and PCI Company (Canada) seminar about application of remote sensing and GIS, March 31, 1996. Marriot hotel, Amman, Jordan.
- Participating in the 7<sup>th</sup> workshop in educational technology and evaluation, Jordan University of Science and Technology (), Jan. 22 to 26, 1994.
- Participating in the 4<sup>th</sup> workshop about advanced educational technology entitled “Measurement, Evaluation, and Correction”, Jordan University of Science and Technology (JUST), Jan. 24 to 26, 1998.



- Participating in the workshop entitled “Linkage between universities, production and service sectors“, held at Jordan University of Science and Technology, Jordan, Sept. 24, 1997.
- Participating in the meeting for “Receivers of Shoman Award”, held at Jordan University of Science and Technology, Jordan, Oct. 28, 1997, member of recommendations committee.
- Participating in the workshop and seminar under the title “Reduction of Speed and its Effect on Traffic Safety”, held at Public Security Directorate, Jordan, Dec. 15-16, 1997, under the patronage of Prince Raed Ben Zaid.
- Participating in the workshop under the title “Remote Sensing Science and Technology Workshop”, held at Aal Al-Bait University, Mafraq, Jordan, Dec. 9, 1997. Organized by the Space Science And Planets Institute.
- Participating in the Fifth Scientific Day for Faculty of Engineering at Jordan University of Science and Technology, Jordan, that was held on Wed. 29 April 1998. Presented a paper under the title “The applications of stereo-photogrammetry and computer vision in Civil Engineering“.
- Participating in the Northern Jordanian Municipalities Workshop: Current and Future”, in coordination with Irbid Municipality and Jordan University of Science and Technology (JUST), Irbid, Jordan, July 7-8, 1998. Presented a paper under the title “Problems, Distresses, and Maintenance of Flexible Pavement and Using of New Technologies in Maintenance”. (Also was a Steering Committee Member).
- Participating in the Safety on Roads: an International Conference (SORIC’ 1998), 26-28 Oct., 1998, University of Bahrain, Bahrain. Presented a paper under the title “Traffic Accident Trends in Developed and Developing Countries: A Case Study for Jordan and U.S.A.”.
- Participating in the meeting for “Receivers of Shoman Award”, held at Yarmouk University, Jordan, Nov. 7, 1998, member of scientific committee for engineering award in Transportation Engineering.
- Participating in the meeting for “Industrial Properties and Technology Transfer in Arabian Countries”, Organized by the Higher Council of Science and Technology, Jordan, Amman 1-3 March, 1999.
- Participating in the International Conference of “Traffic Safety on Two Continents” which was held in Malmo, Sweden, Sept. 20-22, 1999.
- Participating in the workshop and seminar about “Higher Education in Jordan”; Shoman Forum; Amman; Jordan; Nov. 9-10, 2000.
- Participating in the workshop and seminar about “Jordanian Universities Sport”; Amman National University; Amman; Jordan; Nov. 22, 2000. Presented a paper entitled “Jordan Universities Sport Federation: Current and Future Status”.
- Participating in the Engineering College Scientific Day- 25<sup>th</sup> Anniversary of establishing the Faculty of Engineering-, JUST, Jordan, May 10, 2006.
- Participating in the 25<sup>th</sup> regional conference about “Registration and Admission in the Arab World Universities”, Amman 1-4, April 2002. Submitted a paper entitled “Model Student Guide”, Arabic Version.
- Participating in the 6<sup>th</sup> Arab Youth Forum, Amman-Jordan, 8-12, 2, 2008, and submitted a paper entitled " Youth, and Social and Voluntary Work".
- Participating in the First Conference about Jordanian National Culture and its Identity, Amman-Jordan, 7-8, 3, 2008, and submitted a paper entitled "A Look into Jordanian National Culture and its Identity".
- Participating in the "International Conference on Construction and Building Technology" in Kuala Lumpur, MALAYSIA on 16-20 June 2008, organized by Universiti Tenaga Nasional,

International Association for Concrete Technology, and Universiti Teknologi PETRONAS. (Paper presentation and Session chairing).

- Participating in the "Fifth International Traffic Safety Conference in Jordan", organized by Jordanian Traffic Institute, Public Security Directorate, Amman, Jordan, April 22-24, 2008. (Papers presentation, Chairing sessions, and chairing the scientific committee).
- Participating in the Annual meetings of Erasmus Mundus Project Consortium in Bologna-Italy (Sept. 1 -3, 2007), and Lund-Sweden (Sept. 3-4, 2008). Representing Jordan University of Science and Technology (JUST).
- Participating in the Annual meetings of the Erasmus Mundus Project Partnership in Brussels-Belgium, Sep. 28- Sep. 30, 2008. Representing Arab Universities in Jordan, Lebanon, and Syria.
- Participating in the Third Conference: How to implement the King's Vision to Build Recent Jordan;; Creative Thinking Center; Amman-Jordan; Oct. 14-16, 2008.
- Participating in "Nano-Technology Conference", Amman-Jordan, Jordan University and University of Illinois at Urbana-Champaign-USA, 10-14, Nov. 2008.
- Participating in "The Second Conference for Irbid-City: History and Present"; Irbid Cultural Forum; In Cooperation with Cultural Ministry-Jordan; Yarmouk University, Irbid Nov. 26-27, 11, 2008. "Submitted and presented a paper about Common Identity and Culture for Jordanians".
- Participating in the Second Educational Conference for School Students' Research: Student, and Educational Aspiration and Vision; Model School, Yarmouk University, Irbid, April 8-9, 2009.
- Participating in the Fourth Regional Conference entitled: Governance and Reform; Main Keynote Speaker; Amman May 20, 2012.
- Patronage of the 1<sup>st</sup> Jordanian-Lebanese Business Forum; Amman-Jordan; Wed. Oct. 3, 2012.
- Patronage a conference, chairman and a keynote speaker about "Strategies of human development through Knowledge Administration"; Oman, Salalah, 20-22, 8, 2013.
- Participating in the "Sixth Surveying and Geographic Names" conference, organized by Royal Jordanian Geographic Center and Arabic Union of Surveyors; Amman, Jordan, Oct. 29-31, 2013 (Member of Scientific Committee and Submitted a research paper).
- Participating in Irbid International Conference, Jordanian Engineering Association, JUST, Irbid; Chairman of main session; 14-18, 10, 2014.
- Participating in Railway Symposium, Jordanian Engineering Association, Amman, Chairman of main session; 15, 10, 2014.
- Participating in the "Seventh Surveying and Geographic Names" conference, organized by Royal Jordanian Geographic Center and Arabic Union of Surveyors; Amman, Jordan, Nov. 11-13, 2014 (Member of Scientific Committee and Submitted a research paper).

### **PROMOTION COMMITTEES**

- *Participating in committees to promote the following colleagues from the rank of Associate Professor to Full Professor:*

- *Fayez Abdullah*
- *Osama Nosair*

-*Participating in committees to promote the following colleagues from the rank of assistant professor to associate professor:*

- *Dr. Ziad Gazawi*
- *Dr. Saed Abu-Qudais*

- *Dr. Aslam Omari*
- *Participating in the promotion committee to evaluate Dr. Najeh S. Tamim – An-Najah National University, Nablus, West Bank, Palestine - from the rank of assistant professor to associate professor- July 2004.*
- *Participating in committees to promote the following colleagues from the rank of Associate Professor (B) to Associate Professor (A):*
  - *Dr. Rami H. Haddad*
  - *Dr. Waddah Abdullah*
  - *Dr. Hani Abu-Qudais*
- *Participating in committees to promote the following colleagues from the rank of assistant professor (B) to assistant professor (A):*
  - *Dr. Samer Barakat*
  - *Dr. Ghazi Al-Khateeb*
- *Participating in the comprehensive exam committee for Ph.D. doctorate exam for Eng. Nabeel Kofahi at the Civil Eng. Dept. at JUST; Dec. 2000.*

### **ATTENDED SHORT-COURSES, TRAINING, AND WORKSHOPS**

1. Attended the Environmental Technology Training in Geographic Information Systems (GIS); i.e. Arcview and ArcMap Software, and Global Positioning Systems (GPS) at the Brevard Teaching and Research Laboratories in coordination with the Partnership for Environmental Technology Education (PETE) of the United States and Jordan University of Science and Technology's (JUST) Center for Environmental Science and Technology (CEST) under a grant program to train international faculty members sponsored by the United States Information Agency's (USIA). Palm Bay, Florida, U.S.A., July 4, 1998 through July 26, 1998 (Phase I).
2. Attended the train-the-trainer workshop entitled "Integrating an Environmental Management System (ISO 14001) Into Your Workplace", coordinated by the University of Florida, Center for Training, Research and Education for Environmental Occupations (TREEO Center) in coordination with the Partnership for Environmental Technology Education (PETE) of the United States and Jordan University of Science and Technology's (JUST) Center for Environmental Science and Technology (CEST) under a grant program to train international faculty members sponsored by the United States Information Agency's (USIA). Washington D.C., U.S.A., July 2, 1998 through July 3, 1998. (Phase I).
3. Attended an advanced Training Program in Geographic Information Systems (GIS); i.e. using Arcview and Arc/Info Software, and Global Positioning Systems (GPS) at the Brevard Teaching and Research Laboratories in coordination with the Partnership for Environmental Technology Education (PETE) of the United States and Jordan University of Science and Technology's (JUST) Center for Environmental Science and Technology (CEST) under a grant program to train international faculty members sponsored by the United States Information Agency's (USIA). Palm Bay, Florida, U.S.A., Sept. 10, 1999 through Sept. 27, 1999 (Phase II).

### **EDITOR-IN-CHIEF**

Editor-in-Chief for the following magazine and newspaper which they are bi-monthly produced by Jordan University of Science and Technology (JUST) and published for more than 3000 copies:

- Jadara University Journal; Editor-In-Chief; Sept. 2019- Present.
- Jordanian Civil Engineering Journal; Editor-In-Chief; starting March 2016- March 2018.
- Jordanian Civil Engineering Journal; Editorial Board Member; starting Oct. 2015.
- Mir'at Al-Technologia Magazine: Informative, Scientific, Cultural, and Periodical Issued by JUST. Editor-in-Chief since July 2000 till Sept. 1<sup>st</sup>, 2004.
- Rehab Al-Jam'a: Students' newspaper at JUST. Editor-in-Chief since Jan. 2000 till Sept. 1<sup>st</sup>, 2004.

### **TECHNICAL JOURNALS REVIEW**

- Referee for the Journal of Transportation Engineering (JTE), ASCE, U.S.A.
- Referee for Al-Derasat journal, Mu'ta University, Jordan.
- Referee for the International Journal of Construction Information Technology (CIT), Salford University, UK.
- Referee for Microcomputers in Civil Engineering Journal, Journal of computer-aided civil and information engineering, Ohio State University, U.S.A.
- Referee for Environmental Monitoring and Assessment; Kluwer Academic Publishers B. V.; The Netherlands.
- Referee for Abhath Al-Yarmouk Journal, Yarmouk University, Jordan.
- Referee for Al-Derasat journal, Jordan University, Amman, Jordan.
- Referee for Jordanian Journal of Civil Engineering (JJCE), Ministry of Higher Education and Scientific Research, Jordan.

### **CONFERENCES ORGANIZATION**

Organizing many conferences including:

- Organizing the “Talented, innovative and distinguished Youth Forum”, Under the patronage of his majesty King Abdullah the II, Higher youth council, Feb. 28, 2005, Amman, Jordan. (*Chairman of Youth and Selection Committees*)
- The First Youth Conference of Jordanian University Students – Under the patronage of Princess Basma Bent Talal – July 27, 2004- Jordan University of Science and Technology (JUST). (*Conference Chairman*)
- The First Environment Conference of Jordanian University Students – Under the patronage of Environment Minister – May 15, 2003 - Jordan University of Science and Technology (JUST). (*Conference Chairman*)
- The Fifth Traffic Safety Conference in Jordan 2008, Road and Traffic Safety Strategies, 22-24 April, 2008, Amman-Jordan. (*Chairman of Scientific Committee*)
- The Bologna Awareness Seminar, Toward a partnership between Jordan and European countries in Higher education, Jordan University of Science and Technology (JUST), April 21, 2008. (*Seminar Chairman*)
- Editorial board member in the 14<sup>th</sup> International Conference on Civil, Structural and Environmental Engineering Computing (CC2013); Organized by Civil-Comp Press, Stirlingshire, UK; Cagliari, Sardinia, Italy, 3-6 September 2013.

### **CONFERENCES COMMITTEES**

- Chairman of Steering Committee of First Development Conference of Bani-Kananah, 2015-2016; May 8, 2016
- Member of the International Advisory Committee of the "International Conference on Construction and Building Technology, ICCBT 2008, 16-20 June 2008, Kuala Lumpur, Malaysia; Department of Civil Engineering; University Tenaga Nasional. Website: [http://www.uniten.edu.my/newhome/content\\_list.asp?ContentID=3197](http://www.uniten.edu.my/newhome/content_list.asp?ContentID=3197)
- Chairman of Scientific Committee of The Fifth Traffic Safety Conference in Jordan 2008, Road and Traffic Safety Strategies, 22-24 April, 2008, Amman-Jordan.
- Member of the Scientific Committee of the "15th International Conference on Road Safety in Abu Dhabi, the United Arab Emirates, October 22-24 March 2010". organized by the Swedish National Road and Transport Research Institute (VTI) together with the National Transport Authority of UAE. The conference is supported by GRSP (Global Road Safety Partnership), FERSI (Forum of European Road Safety Research Institutes), TRB (Transportation Research Board) and ECTRI (European Conference of Transport Research Institutes).
- Chairman of Scientific committee of Jordanian Traffic Conference May, 2008, and member for the years 2013 and 2015; Amman, Jordan.

### **WORKSHOPS ORGANIZATION**

- Organizer, coordinator, and main lecturer (by my self-only) in the workshop: “Plane-Surveying Principles and Recent Applications”, more than 30 times, Jordan University of Science and Technology (JUST), Jordan. Attendances were engineers and surveyors from different institutes and ministries in Jordan.
- Organizer, coordinator, and lecturer (with other colleague) in the workshop: “Geometric Design of Highways”, more than 30 times,, Jordan University of Science and Technology (JUST), Jordan. Attendances were civil engineers from different institutes and ministries in Jordan.
- Organizer, coordinator, and lecturer (with other colleagues from Jordan and Salford University at U.K.) in the workshop: “Visualization Techniques in Engineering Construction”, held at Jordan University of Science and Technology (JUST), Jordan, June 18-21 May, 1997. Attendance’s expected to be civil engineers from different institutes and ministries in Jordan, consultants, decision-makers, etc.
- Organizer, coordinator, and main lecturer (by my self-only) in the workshop: “Advanced Surveying Principles and Recent Computer-based Applications”, Sultan Qaboos University, Sultanate of Oman. Attendances were engineers and surveyors from different institutes and ministries in Sultanate of Oman.
- Organizer, coordinator, and main lecturer (by my self-only) in the workshop: “Surfer Software and Its Applications: Areas, Volumes, Slices, 3-D, etc”, Phosphate Company, Al-Shaydeh. Attendances were engineers and surveyors from different departments at the Phosphate Company. August 30, 1999 through Sept. 1, 1999.
- Organizer, coordinator, and main lecturer (by myself only) in the workshop: “Recent Computer-based Applications in Surveying”, Jordan University of Science and Technology (JUST), Attendance’s were engineers and surveyors from different institutes and ministries in Jordan (Mainly; Ministry of Water), Sept. 4, 1999 through Sept. 6, 1999.
- Organizer, coordinator, and main lecturer for many workshops for youth; mainly about, leadership, creative thinking, time management, political, social and economic developments, debating skills, and citizenship; Jordan University of Science and

Technology (JUST) and higher council for youth in Jordan, Attendance's were universities students and youth from different universities and youth centers Jan. 2000 until present.

- Organizer, coordinator and lecturer in "Public Awareness of Recycling" workshop at the Deanship of Students Affairs, Jordan University of Science and Technology (JUST), Irbid, Jordan. European Commission, year 2001.
- Organizer, coordinator, and main lecturer for Geographic Information Systems (GIS) workshops; Jordan University of Science and Technology (JUST); Jordan, more than 30 times, Attendance's were universities students and engineers from different universities and other institutes Jan. 2000 until present.
- Organizer, coordinator, and main lecturer for Total Stations workshops; Jordan University of Science and Technology (JUST); Jordan, Attendance's were universities students and engineers from different universities and other institutes.

### **SOFTWARE DEVELOPMENT**

- Developer and programmer of the following software packages:
  1. DRSTEREO: A PC-based computer vision system incorporates the latest techniques from computer vision and photogrammetry to assist user in performing metric measurements using video images.
  2. CCDCAL\_PLANE: CCD camera calibration using planer constraint.
  3. REL\_DEP and REL\_INDEP: Dependent and independent relative orientation of stereo images.
  4. ABSOLUTE: Absolute orientation of stereo model.
  5. REL\_ABS: Combines the relative orientation and absolute orientation processes together.
  6. INTERSECTION: A space intersection program to compute spatial object space coordinates from a pair of stereo images.
  7. SECTIONING: Cross-sectioning and surface measurements algorithm.
  8. PAR\_PRECISION: Compute by-product measurement parameters and precision.
  9. PLOT: Represents 3-D measurements in a graphical digital format.
  10. PLANE: interactive computer software for routine plane surveying problem solving.
  11. K-PAVER: A stereometric knowledge-based system for maintenance of streets network.
  12. ROUTE: Design and layout of different horizontal and vertical alignments. Individual curves and full routes with full options. Fortran Language.
  13. SUPER-ROUTE: Spreadsheet for geometric design of alignments and earthwork.
  14. GIS-IRBID: Database and layers system to display, query, and analyze GIS data for Irbid City, Jordan.
  15. GIS-Public: Database and layers system to display, query, and analyze Public Transportation GIS data for Amman City, Jordan.
  16. GIS-Travel: Database and layers system to display, query, and analyze travel time, consistency and delay GIS data for Irbid City, Jordan.

### **LECTURES**

- Main lecturer in all themes of Jordanian National Youth Strategy; Nine themes: Citizenship and Civic Society, Free-time, IT, Participation, Labor, Mass Media and Culture, Education, Political Development, and Health, Jordan-2004 till present.

- Workshop “Planning and Partnership Work”; lecture about “Talented, Distinguished; and Innovative Youth Clubs”; Higher Council for Youth; Sat. April, 16, 2005.
- Lecturing about political development; Irbid Cultural Forum; “Political Development and Citizenship”; Irbid, May 2004.
- Lecturing about “National Culture and Education”; Irbid Cultural Institute; Irbid, March 2005.
- Lecturing about the “Role of Educational Institutes in National Education”; Attendance: school principles of Irbid governorate and local government; Ministry of Education.
- Lecturing about “Female Youth Participation in Political Development”; in the conference of “Woman and Political Development”, Women Committees Forum; Irbid; April 28, 2005.
- Lecturing about “Youth Role in Prevention of Environmental Pollution”; and “Youth innovative Clubs”; First Environmental Youth Forum; Aqaba; May 6-7, 2005, Higher Council for Youth.
- Lecturing about National Education, Independence, Constitutional Terms, etc in many schools, youth camps and meetings, directorates, ministries, institutes, civil societies, centers, etc.
- Lecturing and participating in many workshops about “Fighting of Terrorism”, in many schools, youth camps and meetings, directorates, ministries, institutes, civil societies, centers, etc.
- Lecturing and participating in many workshops about “Youth: Strong and Weak Points”, in many schools, youth camps and meetings, directorates, ministries, institutes, civil societies, centers, associations, etc.
- Lecturing and participating in many workshops about “Strategic Planning and Partnership Work”, in many schools, youth camps and meetings, directorates, ministries, institutes, civil societies, centers, associations, etc.
- Lecturing about “Obstacles Ahead of Youth Production and Innovation”; Wed. Feb. 15, 2006; Arabic Cultural Association, Amman-Jordan.
- Lecturing about “Participation of Civil Community organizations in Political, Social and Economic” Development, Jordanian youth centers and Athletics` Clubs-Jordan, 2004-Now.
- Lecturing about “Amman Message, Tolerance, and Forgiveness”, Jordanian youth centers, Athletics` Clubs, schools, and universities-Jordan, 2005-Now.

### **OTHER SPECIAL SKILLS**

- Mastering computer programming in C, C<sup>++</sup>, Fortran, and Basic languages.
- Development of Internet Homepages using Front-page software
- Computer knowledge in UNIX, DOS, Windows, and Macintosh.
- Spreadsheet: Wingz, MS-Excel, Quattro Pro and others.
- Word Processing: Interleaf, MS-Word, Wordperfect, and others.
- Graphics software: Grapher, Surfer and others.
- Mastering GIS Arcview, and Arcmap software.
- Internet communications
- Mastering much other software.





## REFERENCES

### At the Governmental Level

- HE Mr. Sameer Al-Refaei- Former Prime Minister of JORDAN.
- HE Prof. Walid Maani; Former Minister of Higher Education and Research.
- HE Prof. Adel Twaisy; Former Minister of Higher Education and Research.

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