



### CV of Prof.Dr. Omar AL KHALIL

**Name:** Omar AL KHALIL.

**Academic Situation:** Professor.

**Department:** Topographic Engineering.

**Spatiality:** Photogrammetry.

#### - Teaching Activities

S.N	University	Faculty	Department	Year	Topic	Date
1	Tishreen	Civil Engineering	Topographic Engineering	Fifth	Photogrammetry	-2007 2008
2	Tishreen	Agricultural Engineering	Environment and forest	Fourth	Aerial photography and maps	
3	Tishreen	Civil Engineering	Topographic Engineering	Fifth	Photogrammetry	
4	Tishreen	Agricultural Engineering	Soil	Fourth	Aerial photography and maps	
5	Damascus	Technical Institute	Topography	Second	GIS	
6	Tishreen	Civil Engineering	Topographic Engineering	Fifth	Photogrammetry	-2008 2009
7	Tishreen	Agricultural Engineering	Environment and forest	Fourth	Aerial photography and maps	
8	Tishreen	Civil Engineering	Topographic Engineering	Fifth	Photogrammetry	
9	Tishreen	Agricultural Engineering	Soil	Fourth	Aerial photography and maps	
10	Damascus	Technical Institute	Topography	Second	GIS	
11	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-1-	-2009 2010
12	Tishreen	Agricultural Engineering	Environment and forest	Fourth	Aerial photography and	

					maps	
13	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-2-	
14	Tishreen	Agricultural Engineering	Soil	Fourth	Aerial photography and maps	
15	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-1-	-2010
16	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-2-	2011
17	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-1-	-2011
18	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-2-	2012
19	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-1-	-2012
20	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-2-	2013
21	Damascus	Faculty of Tourism	Common trunk	First	Computer Skills -1-	-2013
22	Damascus	Faculty of Tourism	Common trunk	Second	Computer Skills -4-	2014
23	Damascus	Faculty of Tourism	Tourism Management	Third	GIS	
24	Damascus	Faculty of Tourism	Tourism Management	Third	GIS	
25	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-1-	-2014
26	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-2-	2015
27	Tishreen	Civil Engineering	Topographic Engineering	Higher Studies	Remote Sensing	
28	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-1-	-2015
29	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-2-	2016
30	Tishreen	Civil Engineering	Topographic Engineering	Higher Studies	Remote Sensing	
31	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-1-	-2016
32	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-2-	2017
33	Tishreen	Civil Engineering	Topographic Engineering	Higher Studies	Remote Sensing	
34	Tishreen	Civil Engineering	Topographic Engineering	Higher Studies	Methods of Scientific Research	
35	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-1-	-2017
36	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-2-	2018
37	Tishreen	Civil Engineering	Topographic Engineering	Higher Studies	Remote Sensing	
38	Tishreen	Civil Engineering	Topographic Engineering	Higher Studies	Methods of Scientific Research	-2017
39	Tishreen	Faculty of Science	Geology	Fourth	Remote Sensing	2018
40	Tishreen	Faculty of Science	Geology	Fourth	Remote Sensing	
41	Tishreen	Faculty of Science	Geology	Fourth	Remote Sensing	
42	Tishreen	Faculty of Science	Geology	Fourth	Remote Sensing	
43	Tishreen	Faculty of Science	Geology	Fourth	Remote Sensing	-2018-
44	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-1-	2019

45	Tishreen	Civil Engineering	Topographic Engineering	Fourth	Photogrammetry-2-	
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## - Academic Activities

### ✓ Books

Book title	University	Faculty	Department	Date	S.N
Photogrammetry-1-	Tishreen	Civil Engineering	Topographic Engineering	2011	1
Photogrammetry-2-	Tishreen	Civil Engineering	Topographic Engineering	2012	2
Remote Sensing	Tishreen	Civil Engineering	Topographic Engineering	2015	3
Remote Sensing	Tishreen	Faculty of Sciences	Geology	2018	4

### ✓ Masters and PhDs

S.N	Research title	Student Name	Faculty
1	Development of a software for the production of maps of aerial photographs (Master Thesis)	Jamal ALI	Civil Engineering
2	Contribution to the development of a computer system to convert coordinates from a geodetic coordinate system to a local coordinate system (Master Thesis)	Gounwah HAMOUDEE	Civil Engineering
3	Automation of DTM extraction from a cloud of laser points (PhD thesis)	Housam SOULAEMAN	Civil Engineering Damascus University
4	Integration of the techniques of the close range photogrammetry and computer vision in the three-dimensional documentation of architectural heritage. (Master Thesis)	Mohammed DOWA-JE	Civil Engineering
5	A software contribution to the calibration methods of the digital camera (Master Thesis)	Mohammed BOURJEAH	Civil Engineering
6	Development of the two-dimensional real estate map towards 3D digital map system (Master Thesis)	Husain ASSAF	Civil Engineering
7	Evaluation of the correction of geometrical distortions in aerial images and satellite images in a direct manner (Master Thesis)	Koulod AL DEBEL	Civil Engineering

### ✓ Scientific papers

1. Al khalil O., Grussenmeyer P., 2002. Étude sur la reconstruction géométrique et topologique d'un bâtiment par photogrammétrie mono-image. *Revue de l'Association Française de Topographie*, ISSN 0290-9057, N°91, 2e trimestre, 20-25.
2. Al khalil O., Grussenmeyer P., Nour el din M., 2001. 3D indoor modeling of buildings based on photogrammetry and topologic approaches. , *XVIII CIPA International Symposium, Potsdam, Germany, Sept. 18-21st, 2001*, 8 pages.
3. Nour eldin, M., Al khalil, O., Grussenmeyer, P., Koehl, M., 2000. Building reconstruction based on three-dimensional photo-models and topologic approaches. *International Congress*

- of the International Federation of Surveyors. The Mediterranean Surveyor in the new Millennium, Malta 18-21 september 2000, 9 pages.
4. Pierre Grussenmeyer, Omar Al khalil., 2000. A comparison of photogrammetry software packages for the documentation of buildings. *International Congress of the International Federation of Surveyors. The Mediterranean Surveyor in the new Millennium, Malta 18-21 september 2000*, 6 pages.
  5. Grussenmeyer P., Al khalil O.. Solutions for exteriororientation in photogrammetry, a review. *The photogrammetric record, an international journal of photogrammetry*. ISSN 0031-868X, 15 pages.
  6. Al khalil O., Grussenmeyer P. Single image and topology approaches for modeling buildings. ISPRS Comm. V Symposium, Corfou, Sept.2-6, Greece. *Int. Arch. of Photogrammetry and Remote Sensing*, ISSN 0256-1840, Vol.XXXIII, part 5.
  7. Al khalil O., Grussenmeyer P. Modélisation mono-image en photogrammétrie. *Revue de la Société Française de Photogrammétrie et de Télédétection*. ISSN 02446014.
  8. Al khalil O., Grussenmeyer P. 2017. FROM METRIC IMAGE ARCHIVES TO POINT CLOUD RECONSTRUCTION: CASE STUDY OF THE GREAT MOSQUE OF ALEPPO IN SYRIA. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLII-2/W5, 2017. 26th International CIPA Symposium 2017, 28 August–01 September 2017, Ottawa, Canada.
  9. AL KHALIL, O., DEEB, F. *Geographical Information System and Archeology: First Step to The Syrian Archeological Map*. *Tishreen University Journal for Studies and Scientific Research- Engineering Science Series*. Volume 32, Number 4, 2010, 14 pages.
  10. AL KHALIL, O. *Verification of The Use of Mobile Phone Built-in Cameras in Modeling*. *Tishreen University Journal for Studies and Scientific Research- Engineering Science Series*. Volume 33, Number 2, 2011, 18 pages.
  11. AL KHALIL, O., AL KAMOU, A. *Image Rectification for Architectural Documentation of Historical Façades*. *Aleppo University Journal of Engineering Science –Series1*. 2011. 15 pages.
  12. AL KHALIL, O., DEEB, F. *Documentation of Historic Monuments Using Multi-Images 3D Modelling*. *Damascus University Journal of Engineering Science*. Number 2, 2012, 10 pages.
  13. AL KHALIL, O. *Alternative Solution to Document Large Historical Façades Using GIS to Produce a Digital Images Mosaics*. *Tishreen University Journal for Studies and Scientific Research- Engineering Science Series*. Volume 35, Number 9, 2013, 16 pages.
  14. AL KHALI, O., AL MASRE, R., SOULEMAN, H. *A proposed model to separate spatial features from earth surface in urban areas using aerial LIDAR data*. *Damascus University Journal of Engineering Science*. Volume 29, Number 2, 2013, 15 pages.
  15. AL KHALI, O., AL MASRE, R., SOULEMAN, H. *A comparative study of several methods of mathematical interpolation of a continuous surface depending on three-dimensional laser clouds*. *Damascus University Journal of Engineering Science*. Volume 29, Number 2, 2013, 12 pages.
  16. AL KHALIL, O., ALI, A. *3D Modeling of Urban Areas by Close Range Photogrammetry Software & Geographic Information System (GIS)*. *Tishreen University Journal for Studies and Scientific Research- Engineering Science Series*. Volume 36, Number 6, 2014, 14 pages.
  17. AL KHALIL, O., ZOUBARE, A. *3D modeling of archeological sites using Geographic Information Systems (GIS)*. *Tishreen University Journal for Studies and Scientific Research- Engineering Science Series*. Volume 37, Number 2, 2015, 12 pages.
  18. AL KHALIL, O., DEEB, F. *Digitalization of historical maps: the map of old Damascus as a model*. *Damascus University Journal of Engineering Science*. Volume 32, Number 1, 2015, 15 pages.
  19. AL KHALI, O. *Effect of control points on the non-parametric method for geometric deformations correction in close range images*. *Tishreen University Journal for Studies and Scientific Research- Engineering Science Series*. Volume 37, Number 4, 2015, 16 pages.

20. AL KHALI, O., FAHSA, I. *Proposition of a methodology for producing orthophotos from Google Earth free browser images. Tishreen University Journal for Studies and Scientific Research- Engineering Science Series.* Volume 37, Number 5, 2015, 19 pages.
21. AL KHALI, O., FAHSA, I. *Comparison of digital cameras calibration methods in photogrammetry and computer vision. Tishreen University Journal for Studies and Scientific Research- Engineering Science Series.* Volume 37, Number 5, 2015, 18 pages.
22. AL KHALIL, O., AJAJ, A.R. *Application of a low cost photogrammetric system in 3D modeling of architectural structures and archaeological finds. Damascus University Journal of Engineering Science.* 2016, 14 pages.
23. AL KHALI, O. *Standards to evaluate the precision of geometric correction of satellite images. Tishreen University Journal for Studies and Scientific Research- Engineering Science Series.* Volume 38, Number 2, 2016, 18 pages.
24. AL KHALI, O. *Using video records in 3D modelling of large historical monuments. Tishreen University Journal for Studies and Scientific Research- Engineering Science Series.* Volume 38, Number 6, 2016, 19 pages.
25. AL KHALI, O., DAYOUB, W. *Evaluation of the impact of digital terrain model's density on the accuracy of aerial photos orthorectification. Tishreen University Journal for Studies and Scientific Research- Engineering Science Series.* Volume 39, Number 2, 2017, 18 pages.
26. AL KHALI, O., FAHSA, I. *Evaluation of the effect of images' geometric resolution on the 3D model quality in automated close-range photogrammetry. Tishreen University Journal for Studies and Scientific Research- Engineering Science Series* 2018, 17 pages.