Academic Portfolio & C.V.

Diploma 1989 Technical institute of Mosul. B.Sc. 1996, M.Sc. 2000 Baghdad University College of Engineering, surveying engineering department, Ph.D., 2013 Nottingham University (UoD), UK. 2016, Head of the surveying Engineering department at the College of Engineering, University of Duhko. Currently, deputy of the dean at College of engineering, UoD. My knowledge has always been to maintain a strong link between my teaching and scientific research, research-focused teaching. These enable teachings to form my own development research experience and intense interest in the subject. As surveying is a significant part of engineering, the new sensor in surveying efficiency is an interesting field. Research interests lie in General surveying, GPS/GIS integration, Terrestrial and Mobile laser scanning, space Geodesy, and Photogrammetry.

Forename:	Assistant prof., Dr. Farsat Heeto Abdulrahman أستاذ مساعد د. فرست حيتو عبدالرحمن 🙃	
Surname:	ABDULRAHMAN	
Date of birth:	01/06/1970	
Place of birth:	Duhok - Iraq	
Nationality:	Kurdish- Iraqi	
Sex:	Male	
Marital Status:	Married	
Date of Academic Employment:	23/11/2003 (Duhok University)	
Academic States:	PhD. Engineering Surveying and space	
Academic States:	Geodesy	
Board Specialization:	Surveying Engineering	
Passport No.	A9034582 @ 24/11/2014	
E-mail:	farsat.heeto@uod.ac; fnraa@yahoo.co.uk	
Mobile No.:	+9647504503329	
Native language	Kurdish	
Other languages	English and Arabic	
Academic language	English	



Education record

University and location	Degree	Year	Study fields
University of Nottingham, United Kingdom.	PhD	2013	Mobile Laser Scanning
University of Baghdad, Iraq.	MSc	2000	Surveying Engineering
University of Baghdad, Iraq.	BSc	1996	Surveying Engineering
Technical institute of Mosul, Iraq.	Diploma	1989	Surveying
Howkary preparatory School, Duhok, Iraq.	Diploma	1987	Scientific section

Language qualif	ication				
Language	Mother tongue	Very good	Good	Average	Do not know
Kurdish	Kurdish	Very good			
Arabic		Very good			
English			Good		
Others ()					

Place of Employment

2021-present	Deputy of Dean	Deputy of the dean at College of engineering, UoD
2016-2020	Chairman	Head of Department of Surveying Engineering
2015-2016	Chairman	Chairman of the Committee for the quality assurance in the Department of Water Resources Engineering
2015-2016	Representative	Representative of academic staff at the College of Engineering
2014	Director	Scientific affairs of the college of Engineering, University of Duhok.
2013 - 2016	Lecturer	Department of Water Resources, College of Engineering, University of Duhok.
2003-2005	Assistant Lecturer	Department of Water Resources, College of Engineering, University of Duhok.
1996-2003	Office Engineer	KRO organization and collaborated with the foreign organization
1991-1996	Surveyor	KRO organization and collaborated with the foreign organization

Qualification:

Country	University	College	Years at	tended	Academic	Main Subject
Country	Chiversity	conege	From	To	distinctions	Wain Subject
Iraq	Mosul	Institute	1987	1989	Diploma	Surveying
Iraq	Baghdad	Engineering	1992	1996	BSc.,	Surveying
Iraq	Baghdad	Engineering	1997	2000	MSc.,	Surveying
UK	Nottingham	Engineering	2009	2013	PhD.	Surveying

MSc. Thesis title:- Accuracy Assessment of Surveys Utilizing Modern Techniques With Ground Surveys.

PhD. Thesis title:- The use of targets to improve the precision of mobile laser scanning.

Work experience

2021	Deputy of the dean	Deputy of the dean at College of engineering, UoD
2017	Chairman	Chairman of the session Highway in the 2 nd International conference of UoD ICRIE 2017
2016-2020	Head of surveying Engineering Dept.	Head of surveying Engineering Department
2014-2016	Representative	Representative of Lectures at the college of engineering, University of Duhok
2015- 2016	Director	Director of Quality assurance of the Water Resources Department
2014 -2017	Deputy	Member in the committee of books and article publication and

		translation, University of Duhok
2014 -2016	Member	Member of the scientific committee of Water Resources Department
2014-2016	Member	Member in the committee of assessment of college of Engineering staff.
2014-2015	Director	Scientific affairs of Faculty of Engineering, University of Duhok.
2009- 2011, present	Member	Chartered Institution of Civil Engineering Surveyors (ICES), UK
2012- present	Member	International Journal of RSPSoc, UK
2006	Member	Member of the Bureau consultant in the college of
		Engineering.
2003-2008	Head	Technical affairs of the college of Engineering, University of
		Duhok
1996- present	Member	Iraqi and Kurdistan Syndicate of Engineering
1996-2003	Office Engineer / site	KRO organization and collaborated with the different (NGO)
1990-2003	Engineer	foreign organization) and Local Authorities
1992-1996	Cumyayan	KRO organization and collaborated with the foreign
1774-1770	Surveyor	organization and local authorities (the work was part time)

Men	Membership at editing board of international academic journals					
	Journal	Date	Place	Impact Factor		
1	Chartered Institution of Civil	2010	Nottingham			
	Engineering Surveyors: ICES					
2	International Journal of RSPSoc, UK	2012-present	Nottingham	1.622		
3	IEEE-Iraqi section	2019- present	Iraq			

App	Appreciation letters					
	Place	Issue No and date	Reason			
		Roles and duties				
1	University of Salahaddin	Reviewer	Reviewer-3 Paper			
2	University of Duhok	Reviewer	Reviewer-3 Papers			
3	AJES Journal	Reviewer	Reviewer – 17 papers			
4	RSPSc Journal	Reviewer	Ref: PHOTO-D-17-00578			

Computer: Software programs.					
Software	Level of use				
Soliware	Professional	Very good	Good	Average	
AutoCAD civil 3D		Very good			
Cyclone software		Very good			
Leica Geo office + Trimble		Very good			
TerraMatch and TerraScan			Good		

PhotoModeller	Good	
Australist v.7	Good	
Matlab	Good	
Agisoft	Good	
ArcGIS	Good	
Geomagic	Good	
EVNI		Average
Leica photogrammey Suit	Good	
Iwiness	Good	
Geomatic Software	Good	

Training courses

Loca	al training courses			
	Title of training	Place	Date	No. of days
1	ILETS (Intermediate Level)	UoD, College of	20/05/2006-	70
	English Course	Basic Education	29/07/2006	
2	(Pre-Intermediate Level)	UoD, College of	24/12/2005-	64
	English Course	Basic Education	28/02/2006	
3	Method of Lecturing Course	UoD, College of	04/09/2005-	25
		Basic Education	28/09/2005	
4	(Grammar, Comprehension	UoD, College of	03/03/2004-	124
	and Conversation) English	Art	06/07/2004	
	Course			
5				
Inter	rnational training courses			
1	Academic short courses (see	Nottingham	2009 to 2013	periodically
	the attached)	University, UK		
2	Academic course of English	Central for	2 nd Oct. 2008 to	170
	\mathcal{E}			
	language	English	22 nd March 2009	
	_	language		
	_	language Education(CEL		
	_	language Education(CEL E)/ Nottingham		
	language	language Education(CEL E)/ Nottingham city/UK	22 nd March 2009	
3	language Pre-sessional course of	language Education(CEL E)/ Nottingham city/UK Castle	22 nd March 2009 10 th April 2008 to	120
3	language	language Education(CEL E)/ Nottingham city/UK Castle college/Beeston/	22 nd March 2009	120
3	language Pre-sessional course of	language Education(CEL E)/ Nottingham city/UK Castle college/Beeston/ Nottingham	22 nd March 2009 10 th April 2008 to	120
3	Pre-sessional course of English language	language Education(CEL E)/ Nottingham city/UK Castle college/Beeston/	22 nd March 2009 10 th April 2008 to 15 th August 2008	
3	language Pre-sessional course of	language Education(CEL E)/ Nottingham city/UK Castle college/Beeston/ Nottingham	22 nd March 2009 10 th April 2008 to	7

	Station model TC1203)course	ient for lab&Optical Product	
5			

Participation in workshops

Loca	al workshops			
	Title of workshop	Place	Date	No of days
1	The new trend in Geospatial	UoD	6 th March 2022	2
	data collection			
2	ArcGIS Advance Training	UoD	9th September to	8
	Course: Water Distribution		17 th September	
	Network as a case Study		2021	
3	CAI code	Online-		300
		Regional		
1	Bologna Process at	University of	January 2019	2
	University of Zakho:	Zakho	•	
	Implementation; challenges			
	and Suggestions			
2	Curriculums program	Erbil	September, 2018	2
2	Theory and application of	Duhok	2017	7
	surveying instrument			
3	Guide in formation centre	Duhok	2016	1
	(GIC)			
4				
Reg	ional workshops			
1	Iraqi University Linkage	Erbil	29 th March 2016	3
	Program , ABET / IREX-MU			
2	NGO Capacity Building	Counterpart	29 th July 2003	7
	Workshop (Proposal Writing)	International-		
	Course	Iraq. Erbil		
3	NDI workshop	Baghdad	2004	7
4				
Inter	rnational workshops			
1	Iraqi Universities Linkage	Florida - USA	4 th Feb. 2015	11
	program/ IREX			
2	Earth Observation in the	University of	8 th Sept. 2015	4
	Sentinel Era RSPSoc, NCEO	Southampton /		
	and CEOI-ST Joint Annual	UK		
	Conference	A1 4 1	and G 4 2014	4
3	Annual conference of RSPSoc	Aberystwyth	2 nd Sept. 2014	4
4	LiDAR: net Knowledge	University, UK University of	2 nd April 2012	3
-	Exchange workshop on	Lester. UK	2 April 2012	3
	Terrestrial Laser scanner (TLS)	Losion. Oil		
5	Annual Leica Geosystems	University of	2 nd April 2011	3
		•	1	

	Geoworld Roadshow	Nottingham		
6	Perspective on landscape	Nottingham Trent University	13 th Sept. 2011	2
7	Annual Leica Geosystems	University of Leeds	12 th April	4

Organizing or teaching at seminars and workshops

Orga	Organizational/teaching roles at local workshops/ trainings				
	Title of training	Place	Date	No of days	
1	Application of Remote sensing and GIS in Water Resources and Land Management		19 th Feb. 2022 to 5 th March 2022	14 days	
2					
3					
4	Topographic survey using UAV image	University of Duhok/college of Engineering Surveying Dept.	November 2019	7	
5	Autodesk civil 3D 2019 software	Directorate of municipalities	September 2019	21	
6	Autodesk civil 3D 2019 software	Local Authority	August 2019	21	
7	Autodesk civil 3D 2019 software	University of Duhok, college of Engineering	2 nd February,2019	21	
8	Basic GNSS and Total Station training Course	University of Duhok, college of Engineering	2 nd July, 2018	21	
9	Basic GNSS training Course	Director of Duhok dam	2 nd Oct. 2016	3	
10	Survey instrument: GPS, TS and Digital level	Duhok Institute	2016	7	
11	Leica Digital level Sprinter	Zakho institute	2015	3	
12					

Conferences & Symposiums:

	Conference	Place	Period	Year
1	8th Engineering and 2nd International Conference for College of Engineering - University of Baghdad 24 - 25 November 2021	University of Baghdad, Baghdad City	24 - 25 November 2021	2021
2	6 th International Engineering Conference on Developments in Engineering Applications	Tishk International University and EPU sponsored by IEEE	26-27 th February	2020

	(IEC2020) in the city of Erbil, Kurdistan Region-Iraq on February 26-27, 2020.	and IEEE-Iraqi section		
3	5 th International Engineering Conference on Developments in Engineering Applications (IEC2020) in the city of Erbil, Kurdistan Region-Iraq on February 26-27, 2020.	Tishk International University and EPU sponsored by IEEE and IEEE-Iraqi section	23-25 th June	2019
4	International conference on advance science and Engineering (ICOASE 2018)	University of Zakho	9-11 th October	2018
5	International conference on Engineering challenges in Kurdistan Region (ICECKR 2018)	University of Nawroz	5-6 th May	2018
6	Besikci center for humanity studies BCHS	University of Duhok	25-26 th April	2018
7	Genocide and truma	University of Duhok	4-5 th April	2018
8	Iraqi University Linkage Program , ABET / IREX-MU	Erbil-Kurdistan region	29-31 March	2016
9	Iraqi Universities Linkage program/ IREX	Florida - USA	4 th -11 Feb	2015
10	Earth Observation in the Sentinel Era RSPSoc, NCEO and CEOI-ST Joint Annual Conference	University of Southampton / UK	8-11 September	2015
11	Annual conference of RSPSoc	Aberystwyth University, UK	2nd-5 th September	2014
12	LiDAR: net Knowledge Exchange workshop on Terrestrial Laser scanner (TLS)	University of Lester. UK	2-3 April	2012
13	Annual Leica Geosystems Geoworld Roadshow	University of Nottingham	2-4 April	2011
14	Perspective on landscape	Nottingham Trent University	13 September	2011
15	Annual Leica Geosystems	University of Leeds	April	2010

Previous scientific Researches activities (Supervisor on a students research project):-

	Research name	No. of participants	Starting date	Finishing date
1	The precision performance of UAV images for crack detection length measurements	4	1/10/2021	8/05/2022
2	Updating obsolete cadastral map using integration of GPS, GIS data and UAV images	4	1/10/2021	30/05/2021
1	Geoid Model of Duhok University Campus	4	1/10/2019	7/04/2020
2	Creating bathymetric contour map of small earth dams in Duhok Governorate: a comparative study	5	1/10/2017	26/04/2018
3	Evaluation of the design of an open channel in Malta project code 43	5	1/10/2016	17/05/2017
4	The use of ADCP for Creating Digital Elevation Model for the bed of Duhok RESERVOIR	4	1/10/2015	27/05/2016
5	Design of Rainfall storm system for the area located on University campus	5	1/10/2015	27/05/2016

6	Design of rainfall storm system for the area located in the faculty of Engineering	3	1/10/2014	27/05/2015
7	Road Design in hilly region	4	1/10/2007	Completed by another supervisor
8	Completion of contour map utilizing modern techniques	2	1/10/2005	27/05/2006
9	Setting-out of Engineering Collage Region by Horizontal control point	2	1/10/2004	27/05/2005
10	Road design in Hill region	2	1/10/2003	27/05/2004
11	Renovation of level net in Jadrya region in Baghdad	4	1/10/1995	27/05/1996
12	Trilateration of Jadrya region in Baghdad using Planomatric coordinates for the purpose of analytical photogrammetry	4	1/10/1995	27/05/1996

Attendance at seminars for current years 2016-2017

Atte	ending seminars at department/ co	ollege/ faculty		
	Title of seminar	Place	Date of	Note
1	G C ICDIE :1	C 11 C	presentation	D 41 1 11 1
1	Conference ICRIE guide	College of	4th Oct. 2016	Dr. Abdulhameed
		Engineering	0 #th 0 001 6	
2	Information about Linnaeus	College of	25 th Oct.2016	Mr.Samir
	University, and the process of	Engineering		Khoshaba,
	teaching and examination of			Uinversity of
	Faculty of Technology			Vaxjo, Sweden
3	IREX HeeP	Online	27 th Oct. 2016	Online
4	Fulbright visiting scholar	College of	29 th Nov.2016	Dr. James
	program for Iraq	Engineering		
4	Implementation of zero-	College of	20 th Dec.2016	Dr. Raafi
	thickness interface element	Engineering		
	algorithm in viscoelastic			
	model with application			
5	Toward internationalizing	College of	10th Jan. 2017	Dr. Nashwan
	publication from the	Engineering		
	University of Duhok			
	Treatment products for the	College of	14 th Feb. 2017	Falah Hassn
	construction industry	Engineering		
7	Teaching Quality Assurance	College of	28th Feb.2017	Dr.Sarhat
		Engineering		
8	Mechanical properties and	College of	28 th Feb.2017	Mr.Musheer
-	spalling at elevated temp.	Engineering	1	
9	Pressurized irrigation system	College of	6 th March 2017	Eng. Nader
-	field problem and effective	Engineering		Hawatmeh,

	solution			Hunter Industries
10	Introduction of using the E- learning System of the University of Duhok	College of Engineering	4 th April 2017	Mr. Aza Hani
11	university Ranking and Teacher portfolio	College of Engineering	5 th April 2017	Dr.Yaman
13	Effect of Bed side Slopes on Flow Measurement in Trapezoidal free Overflow	College of Engineering	11 th April 2017	Dr.Bahzad
14	ICRIE conference	Conference Hall	26 th April 2017	WR, Civil and Highway sessions
15	Design day	Student center	17 th May 2017	
16	Seminar of year 2018	University of Duhok	October-May 2018	14 seminar
17	Seminar of year 2019	University of Duhok	October-present 2019	7 up to date

General activities

Publ	Publishing articles at newspapers and magazines				
	Title of article	Title of newspaper/ magazines	Date of publication	Place of publication of the newspaper/magazine	
1	Car problem in Duhok	Sun direct	2007	UoD	
2	Determine Zone number and Central meridian in UTM projection- part 1	Sun direct	2007	UoD	
3	Determine Zone number and Central meridian in UTM projection-part 2	Sun direct	2007	UoD	
4					
Gen	eral seminars				
	Title of seminar	Place	Date	Note	
1	3D Point coordinates, Laser Scanning	College of Engineering	29 th March 2014		
2	Sustainability Education and Awareness workshop	College of Engineering	6 th March 2015		
3	Coordinate Systems, Datum and Map projections	College of Engineering	7 th Dec. 2015		
4	Code of one million map on UTM projection	College of Engineering	6 th Dec. 2016		
5		-			
Pres	s interviews (TV, newspapers an		r '		
	Main subject	Channel	Place	Note	

1	Support for Postgraduate	Radio for	Duhok	
	students	Kurdistan		
		express		
2				

Participating or organizing projects with private sector, community and outside university that serve the process of education and learning

	these projects that strengthen the						
com	munity as well as these projects	ı		·	End date		
	Project title	Date	Place	Start date	End date		
1	The precision performance of	1st Sept.	College of		8 th May 2022		
	UAV images for crack detection length measurements	2021	Eng., UoD	2021			
2	Updating obsolete cadastral map	1st October	College of	1st Nov.	30 th May		
	using integration of GPS, GIS data and UAV	2020	Eng., UoD	2020	2021		
	images	4 0 1	G 11	1 . 37	- 41-		
1	Geoid Model of Duhok university campus	1st October	College of	1st Nov. 2019	7 th April		
2	Creating bathymetric contour	2019 1st October	Eng., UoD	1 st Nov. 2017	2020 26 April		
2	map of small Earth dams in	2017	College of Eng., UoD	1 NOV. 2017	26 April 2018		
	Duhok Governorate: a	2017	Liig., CoD		2010		
	comparative study						
3	Evaluation of the design of an	1st October	College of	1 st Nov. 2016	17 th May		
	open channel in Malta project code 43	2016	Eng., UoD		2017		
4	The use of ADCP for	1st October	College of	1 st Nov. 2016	27 th May		
	Creating Digital Elevation	2015	Eng., UoD	1 11011 2010	2016		
	Model for the bed of Duhok						
	RESERVOIR						
5	Design of Rainfall storm	1st October	College of	1 st Nov. 2016	27 th May		
	system for the area located on	2015	Eng., UoD		2016		
_	University campus			1st 3.7			
6	Design of rainfall storm	1st October	College of	1 st Nov. 2014			
	system for the area located in	2014	Eng., UoD		2015		
7	the faculty of Engineering Road Design in mountain	1st October	College of	1 st Nov. 2007	Completed		
,	areas	2007	Eng., UoD	1 1107. 2007	by another		
	41045	2007	Eng., ceb		supervisor		
8	Completion of contour map	1st October	College of	1st Nov. 2006	27 th May		
	utilizing modern techniques	2006	Eng., UoD		2007		
9	Setting-out of Engineering	1st October	College of	1st Nov.	27 th May		
	Collage Region by Horizontal	2005	Eng., UoD	2005	2006		
4.0	control point		G 11		0=4 > 5		
10	Road design in Hill region	1st October	College of	1st Nov.	27 th May		
		2004	Eng., UoD	2004	2005		

11	Renovation of level net in	1st October	College of	1st Nov.	25 th May
	Jadrya region in Baghdad	1995	Eng., Uo	1995	1996
			Baghdad		
12	Trilateration of Jadrya region	1st October	College of	1st Nov.	25th May
	in Baghdad using Planomatric	1995	Eng., Uo	1995	1996
	coordinates for the purpose		Baghdad		
	of analytical photogrammetry		_		

Teaching Experience (Undergraduate Studies):

Univers	College	Department	Stage	Subject	Period		No .of hs / weekly	
ity)	•	•		from	To	Theo.	Prac.
Duhok	Engineering	Surveying Engineering	Fouth	Astronomy for Surveying	2019	present	2	1
Duhok	Engineering	Surveying Engineering	Third	Geodesy	2018	present	2	1
Duhok	Engineering	Surveying Engineering	Second	Engineering Surveying	2017	present	3	3
Duhok	Engineering	Surveying Engineering	First	Technical English	2016	2017	2	-
Duhok	Engineering	Water Resource	Second	Engineering Surveying	2015	2021	4	4
Duhok	Engineering	Water Resource	Second	Engineering Surveying	2021	2022	2	2
Akre	Institute	Surveying	First	Surveying I	2015	2016	3	6
Akre	Institute	Surveying	Second	Surveying II	2016	2021	3	6
Zakho	Institute	Surveying	Second	AutoCAD Civil 3D	2015	2016	1	2
Duhok	Engineering	Water Resource	Second	Surveying Engineering	2014	2015	4	4
Duhok	Engineering	Water Resource	Second	Surveying Engineering	2013	2014	-	4
Duhok	Engineering	Architecture	Second	Surveying Application	2013	2014	1	2
Zakho	Institute	Surveying	Second	Surveying II	2014	2015	4	6
Duhok	Institute	Surveying	Second	Surveying II	2013	2014	4	6
Duhok	Engineering	Civil	Second	Surveying Engineering	2003	2005	-	6
Duhok	Engineering	Water Resource	Second	Surveying Engineering	2003	2005	-	6

Duhok	Engineering	Civil	Second	Surveying Engineering	2005	2007	3	6
Duhok	Engineering	Water Resource	Second	Surveying Engineering	2005	2007	3	6
Duhok	Engineering	Architected	First	Surveying Application	2005	2007	2	2
Duhok	Engineering	Civil	Forth	Project	2003	2007	1	2
Duhok	Agriculture	Forestry	First	Surveying Application	2004	2005	2	6
Duhok	Agriculture	Animal Prod.	First	Surveying Application	2005	2005	2	6
Duhok	Agriculture	Horti-culture	First	Surveying Application	2005	2006	2	6
Duhok	Agriculture	Soil and Water	First	Surveying Application	2005	2006	2	6
Duhok	Economical and Administration	Administration	First	Computer Application	2003	2004	2	2
Duhok	Economical and Administration	Economic	Second	Computer Application	2003	2004	2	2
Duhok	Economical and Administration	Science of Banks	First	Computer Application	2003	2004	2	2

Training Courses

	Field of Study	From – To	Place(s) of study
1	Academic short courses (see the attached)	2009 to 2013	Nottingham University, UK
8	Academic course of English language	02/10 /2008 to 22/03/2009	Central for English language Education(CELE)/ Nottingham city/UK
7	Pre-sessional course of English language	10/04/2008 to 15/08/2008	Castle college/Beeston/Nottingham city/UK
6	Tchnoscient Leica's exclusive agent in Egypt (Leica's Total Station model TC1203)course	8/02/2006- 14/02/2006	Egypt /Cairo/Technoscient for lab&Optical Product
4	ILETS (Intermediate Level) English Course	20/05/2006- 29/07/2006	University of Dohuk – College of Basic Education
3	(Pre-Intermediate Level) English Course	24/12/2005- 28/02/2006	University of Dohuk – College of Basic Education
2	Method of Lecturing Course	04/09/2005- 28/09/2005	University of Dohuk – College of Basic Education

1	(Grammar, Comprehension and	03/03/2004-	University of Dohuk –		
1	Conversation) English Course	06/07/2004	College of Art		
5	NGO Capacity Building Workshop	29/07/2003	Counterpart International-Iraq. Erbil		
3	(Proposal Writing) Course	29/07/2003	Counterpart international-fraq. Eron		

Researches Published:

- 1. Yousif Youkhanna Zaia, Sarhat Mustafa Adam, Farsat Heeto Abdulrahman. JASEJ (2022) "Investigating BIM level in Iraqi construction industry." Published in Ain Shams Engineering Journal (ASEJ) https://doi.org/10.1016/j.asej.2022.101881.
- 2. Farsat Heeto Abdulrahman. 2021." **Hyperspectral and LiDAR data fusion in features based classification**" published in Arabian Journal of Geosciences 2021/12. Vol. 14, issue 24. Publisher, Springer International Publishing.
- 3. Raad A. Kattan, Fasrsat Heeto Abdulrahman, Sami M. Gilyana, Yousif Y. Zaya 2021. '3-D modelling and visualization of large building using a photogrammetric approach" Journal of Engineering Research, published 3/11/2021. DOI: https://doi.org/10.36909/jer.12167. Online ISSN:2307-1885
- 4. Farsat Heeto Abdulrahman, 2020. "Determination of the local geoid model in Duhok Region, University of Duhok Campus as a Case study" Paper published to the Ain Shams Engineering Journal, Publication date 2020/11/13 by Elsevier. https://doi.org/10.1016/j.asej.2020.10.004
- Ageed Idress Mohammed and Farsat Heeto Abdulrahman, 2020 "Evaluation of UAV-based DEM for volume calculation" Paper published to the Journal of Duhok University (JUD), Duhok. Vol.23, No1. 2020. DOI: https://doi.org/10.26682/sjuod.2020.23.1.2
- 6. Farsat Heeto Abdulrahman, Solieman Foroughi, Sarhat M. Adam .2020 "A Comparison Between Interpolation Methods for More Accurate Elevation Surface Using GNSS and GIS" Journal of Duhok University 23 (2), 342-351. Journal of University of Duhok, Vol. 32, No.2 (Pure and Eng. Sciences),Pp 342-351, 3232 (Special Issue) 3rd international conference on recent innovations in engineering (ICRIE) Duhok, September 9-10-2020.
- 7. Farsat Heeto Abdulrahman, Raad A. Kattan, Sami M. GILYANA 2020. "A Comparison between Unmanned Aerial Vehicle and Aerial Survey Acquired in Separate Dates for the Production of Orthophotos. Journal of Duhok University 23 (2), 52-66. Journal of University of Duhok, Vol.32, No.2 (Pure and Eng. Sciences), Pp 52-66, 3232 (Special Issue) 3rd international conference on recent innovations in engineering (ICRIE) Duhok, September 9-10-2020.
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- 9. Raad Awad and Farsat Heeto, 2019 "Accuracy Assessment of Duhok city land use official maps" Fifth International Engineering Conference on Developments in Engineering Applications (IEC2019) in the city of Erbil, Kurdistan Region-Iraq on June 23-25, 2019. Published in EPU, Vol.9 No. 2.
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Researches proposed

- 1. The use of UAV images (eBeeRTK sensor) and terrestrial images for 3D urban modeling
- 2. Evaluation of the frequency of the Bridge in Duhok
- 3. 3D Laser Scanning to preserve the most significant Cultural Heritage Sites in Kurdistan
- 4. Detection of Multipath error using various GPS receiver 's antenna
- 5. Installation of the GPS base station at the University of Duhok.
- 6. Estimating the vertical value on the horizontal curves by using law of sphere
- 7. Minimizing Projection Error on Cadastral Maps by using U.T.M Projection of three meridian zones.

NB: The evidence for all items are mentioned in this C.V and academic portfolio is available on request.