Associate. Prof. Dr. Mahmoud B. A. Alhasanat

Curriculum Vitae

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Associate professor, at Department of Civil Engineering, Al-Hussein bin Talal University (AHU), Ma'an, Jordan. Assistant professor, at Department of Civil Engineering, Al-Hussein bin Talal University (AHU), Ma'an, Jordan.	June 2017- present June 2013- Feb 2017
Active member in the Faculty of Engineering Board and Committee\ Al Hussein bin Tala University (AHU)	April 2015- present
Head of Civil Engineering Department, Al-Hussein bin Talal University (AHU), Ma'an, Jordan.	April 2015- October 2016
Part time lecturer, at Department of Civil Engineering, Al-Hussein bin Talal University (AHU), Ma'an, Jordan	Feb 2013 – June 2013
Section Head of GIS, Petra Region Authority tourism Development	1999 - 2007
Education	
PhD, Geomatic Engineering, Engineering Survey, School of Civil Engineering, University Science of Malaysia (USM), Pinang, Malaysia	2009- 2013
Masters Degree in GIS, University Science of Malaysia (USM), Pinang, Malaysia.	2007 – 2009
B.S. Engineering - Urban Planning Moldova Polytechnic University, Kishinev, Moldova	2001 - 2005
Diploma- Engineering Survey Amman University, College of Applied Engineering, Amman, Jordan	1993- 1995

Training course and certificates

International Computer Driving License (ICDL), Amman, Jordan.	April 2016
Underground utility detection, School of Civil Engineering, USM, Pinang, Malaysia.	26 &27Jan 2010
Operation and support of RIS GPR System, Ingegneria Dei Sistemi (IDS), Italy.	12-14 Jan 2010
Non-Destructive Structure GPR System, RDG Supply SDN BHD, Kuala Lumpur, Malaysia.	13-20 Sep 2009
ArcGIS I, InfoGraph, Amman, Jordan.	17-20 Mar 2007
ArcGIS II, InfoGraph, Amman, Jordan.	21-24 Mar 2007

Membership

Faculty of Engineering Board and Committee\ Al Hussein bin Tala University (AHU)

Jordan Engineers Association (JEA), Amman, Jordan.

Group for Research and Application in Sustainable Infrastructure (GRASI), University Science of Malaysia, Pinang, Malaysia.

Language skills

Arabic (mother tongue), English (excellent),

Area of interest

Geomatcis, Algorithms, Spatial Analysis, Cement, Images, Radar, Total Quality Management, Reinforced Concrete, Construction, Civil Engineering, Construction Engineering, Concrete Technologies, Construction Materials, GPR, Ground Penetrating Radar, AutoCAD, Compressive Strength, Concrete Durability, Civil Engineering Materials, Concrete Material Technology, Concrete, Building Materials, Building

Computer skills

Proficient: Microsoft Office, AutoCAD, LisCAD, SoftDisc, Microstation, Arcview GIS, Idrisi, Global Mapper, Primavera and others.

Other relevant skills

Total Station, GIS, GPS, GPR, and Metal Detector.

Reviewer in international journals

Acta Geophysica journal, Elsevier

Journal of Construction & Building Materials, Elsevier

Achievement

- One year merit advancement to the rank of Associate Professor, Awarded by Al-Hussein bin Talal University (AHU) in 2016

Courses taught at Al-Hussein bin Talal University (AHU)

Surveying (I), Surveying Lab. (I), Surveying (2), Geographical Information System (GIS) and Remote Sensing, Statics, Specifications and Contracts and quantity survey, Land Survey and Photogrammetry, Building Construction, Highway and Geometric Design, Construction Materials, Construction Management, Graduation Project (1+2).

Publications

1. Haneen A Alfeilat, Ahmad B.A.Hassanat,Omar Lasassmeh, Ahmad S. Tarawneh, **Mahmoud B Alhasanat,** Hamzeh S. Eyal Salman, and V.B. Surya Prasath (2019)."*Effects of Distance Measure Choice on K-Nearest Neighbor Classifier Performance*".

   Published Online:14 Aug 2019.https://doi.org/10.1089/big.2018.0175
2. Ahmad B, Ghada A, Ahmad S. Hossam F, **Mahmoud B. Alhasanat**, Alex de V, Baker A, Mohammed A, Surya V. (2018).“*On Computerizing the Ancient Game of Ṭāb,* International Journal of Gaming and Computer-Mediated Simulations. 2018, IGI Global.10(3).
3. A Dahamsheh M Wedyan, **Mahmoud B Alhasanat**: *Climate change impact assessment on rainwater in Jordan.* International Journal of Advanced and Applied Sciences 01/2018; 5(1):148-155., DOI:10.21833/ijaas.2018.01.020
4. Bilal Al-Hasanat, Awni Al-Dababseh, E. Al-Sarairah, Sadoon Alobiady, **Mahmoud Bashir Alhasanat**: *An Upper Bound to the Number of Conjugacy Classes of Non-Abelian Nilpotent Groups*. Journal of Mathematics and Statistics 05/2017; 13(2)., DOI:10.3844/jmssp.2017.139.142
5. Alex de Voogt, Ahmad B.A. Hassanat, **Mahmoud B. Alhasanat**: *The History and Distribution of ṭāb : A Survey of Petra’s Gaming Boards*. Journal of Near Eastern Studies 04/2017; 76(1):93–101., DOI:10.1086/690502
6. Ahmad Hassanat, Esra'a Alkafaween, Nedal Alnawaiseh, Mohammad A Abbadi, Mouhammd Alkasassbeh, **Mahmoud Bashir Alhasanat**: *Enhancing Genetic Algorithms using Multi Mutations: Experimental Results on the Travelling Salesman Problem*.
7. **Mahmoud B. Alhasanat**, Arabi N. S. Al Qadi,(2016), “Impact Behavior of High Strength Concrete Slabs with pozzolana as Coarse Aggregate”. American Journal of Applied Sciences. 13 (6): 754.761. DOI: 10.3844/ajassp.2016.754.761 , Elsevier; SCOPUS.

8. **Mahmoud Bashir Alhasanat**, Bilal Al-Hasanat, Eman Al-Sarairah: *The Order Classes of 2-Generator p-Groups*. Journal of Applied Mathematics 01/2016; 2016(13):6., DOI:10.1155/2016/8435768
9. **Mahmoud B. ALhasanat,** Arabi N. Al Qadi, Salah Al-Thyabat, and Batool G. Nofal, (2016), "Addition of waste glass to self-compacted concrete: critical review". Modern Applied Science. Vol. 10, No. 11. Springer; CABI; Gale; EBSCO; ProQuest.
10. Arabi N. S. AL Qadi, **Mahmoud B. Alhasanat,** Madhar Haddad' (2016), "Effect of Crumb Rubber as Coarse and Fine Aggregates on the Properties of Asphalt Concrete". American Journal of Engineering and Applied Sciences. ONLINE. DOI: 10.3844/ofsp.10686, Elsevier; SCOPUS;
11. **Mahmoud B. Alhasanat,** Arabi N. S. Al Qadi, Loai A. Al Tarabulsi, Omar A. Al khashman, (2015). "Effect of addition JORPHOS to Self-Compacting Concrete for Chloride Penetration", Journal of Materials Science Research. Vol. 5, No. 2. Pages 1-6. doi:10.5539/jmsr.v5n2p1. ULRICHSWEB; Refereed; EBSCO; ProQuest.
12. Arabi N. S. Al Qadi, **Mahmoud B. Alhasanat**, Ola B. A. AlHasanat, (2016). "Validity of Self-Reporting Accidents of the Drivers in Water Authority of Jordan". International Journal of Traffic and Transportation Engineering. 5(2): 40-46, DOI: 10.5923/j.ijtte.20160502.03 , ULRICHSWEB; Refereed.
13. Arabi N. S. AL Qadi, **Mahmoud B. Alhasanat**, Ahmad Dahamsheh, Sleiman AL Zaiydneen, (2016), "Using of Box-Benken Method to Predict the Compressive Strength of Self-Compacting Concrete Containing Wadi Musa Bentonite, Jordan". American Journal of Engineering and Applied Sciences. 9 (2): 406.411, 10.3844/ajeassp.2016.406.411, Elsevier; SCOPUS.
14. **Mahmoud B. Alhasanat**, Arabi N. S. AL Qadi, Ayah J. Al-Eas , Amani S.Yaseen, (2016), "The Addition of Waste Plastic in Self Compacted Concrete: Critical Review". International Journal of Current Research. Vol. 08, Issue, 06, pp.33240-33244. ULRICHSWEB; Refereed.
15. Qahir N. S. AL-Kadi, **Mahmoud B. Alhasana,** Arabi N. S. Al Qadi, (2016), "Spalling Assessment of Self-Compacting Concrete with and without Polypropylene fibres at elevated Temperatures". International Journal of Engineering Research and Applications. Vol. 6, Issue 6, (Part -5) June 2016, pp.82-93. ULRICHSWEB; Refereed; EBSCO.
16. **Mahmoud B. Alhasanat,** Arabi N. Al Qadi, Omar A. Al Khashman Ahmad Dahamsheh, (2015), "Scanning Electron Microscopic Evaluation of Self-Compacting Concrete Spalling at Elevated Temperatures". American Journal of Engineering and Applied Sciences. Vol. 9, Issue 1. Pages 119-127. DOI : 10.3844/ajeassp.2016.119.127 , Elsevier; SCOPUS.
17. **Mahmoud B. Alhasanat,** Arabi N. AL Qadi, Madhar Haddad, Hashem AL-Mattarnah, (2015), "Effect of Aggregate Size on the Engineering Properties of Palm Oil Clinker Concrete". GSTF Journal of Engineering and Technology (JET). Vol 3 No 4. Pp 72-80. Springer Link; SCOPUS.
18. Mustafa M.M. Altayeb, **Mahmoud B. Alhasanat,** (2014)." Implementing total quality management (TQM) in the Palestinian construction industry". International Journal of Quality & Reliability Management. Vol. 31 No. 8, pp. 878-887. Web of Science; Thomson Reuters; Elsevier.

19. **M. B. Alhasanat**, S. Kabir, W.M.A. Wan Hussin, and E. Addison, (2010), "*Spatial analysis of a historical phenomenon: using GIS to demonstrate the strategic placement of Umayyad desert palaces"*, Geo-Journal, ISSN: 0343-2521, 1-17, SpringerLink,. DOI: 10.1007/s10708-010-9392-4
20. Wan Hussin WMA, **M.B. Alhasanat**, Yeop Sabar NA. (2012) "*Verification of* Underground Utilities at a Selected Site USM Engineering Campus Using Ground Penetrating Radar (GPR)" ,The Malaysian Surveyor. V. 47(1), pp 42-48. Royal Institution of Surveyors Malaysia (RISM).
21. **M. B. Alhasanat**, W.M.A. Wan Hussin, and Sleiman Al-Zaidyeen (2013), "*Multi*-Frequency GPR Images For Civil Engineering Applications", Canadian Journal of Basic And Applied Sciences, CJBAS. Vol. (01), Issue 02.
22. Wan Hussin WMA, **M.B. Alhasanat**, (2014), "*An Algorithm To Estimate The Size of An Underground Utility Using Specific Antenna*" The Malaysian Surveyor. V. 49 (1), pp 12-15. Royal Institution of Surveyors Malaysia (RISM).
23. **M. B. Alhasanat**, W.M.A. Wan Hussin, A. N. Al-Qadi and S. M. Al-Zaidyeen, (2015), " *GIS and Spatial Analysis of A Historical Phenomenon*" International Surveying Research Journal (ISrJ). Volume 5 Number 2, 1-12. Royal Institution of Surveyors Malaysia (RISM).
24. M. M. Altayeb and **M.B. Alhasanat.** (2011). *Critical Success Factors of TQM Implementation on Construction Project: Nature of the construction industry TQM Construction industry and economy in Palestine Development of TQ Success factors*: LAP Lambert Academic Publishing.
25. **M. B. Alhasanat**, W.M.A. Wan Hussin, and A.B. Hassanat, (2011), "*Combining multi-frequency GPR images and new algorithm to determine the location of non-linear objects with civil engineering applications*", PIERS Proceedings, 1871 - 1874, March 20-23, Marrakesh, Morocco2011.
26. **M. B. Alhasanat** and W.M.A. Wan Hussin, (2011), "*A new Algorithm to Estimate the Size of an Underground Utility via Specific Antenna*",PIERS Proceedings, 1868 - 1870, March 20-23, Marrakesh, Morocco2011.
27. W.M.A. Wan Hussinand and **M. B. Alhasanat**, (2011*),"The Design of a GPR Test Site for Underground Utilities",* PIERS Proceedings, 1864 - 1867, March 20-23, Marrakesh, Morocco2011.
28. W.M.A. Wan Hussin, S. A. Mohd Sanusi and **M. B. Alhasanat**, (2011). "*Significant of GIS and GPR In Locating Underground Utility",* International Engineering for Sustainability Conference (iNESCO). Penang, Malaysia.
29. S. Kabir, **M.B. Alhasanat**, W.M.A. Wan Hussin and A.M. Sanusi,(2010), "*Historical Significance of Strategic Location of Umayyad Desert Palaces"*, First International Conference on Urban & Architectural Heritage In Islamic Countries, 8 to 23 April 2010, Riyadh, Saudi Arabia.
30. Besides, there are some in progress.