

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Resume

Personal Information

Name Dafer Ali Algarni

Nationality: Saudi

Academic Rank: Professor of Surveying Engineering (Geomatics) at
KSU.

Academic Degrees

PhD: The Ohio State University, Columbus, Ohio, USA, 1992

MS: The Ohio State University, Columbus, Ohio, USA, 19

MS: The Ohio State University, Columbus, Ohio, USA, 1986

B.Sc.: King Saud University, College of Engineering, Riyadh, Saudi
Arabia, 1983.

EMPLOYMENT HISTORY

Professor, Surveying Eng. Program, College of Engineering, KSU, since
1423 (2002).

Associate Professor, Surveying Program, College of Eng. KSU, from
1419 to 1423.

Assistant Professor, Surveying Eng. Program, College of Eng. KSU, from
1413-1418.

Teaching Assistant, Civil Eng. Dept. College of Eng. KSU, 1403 – 1404.

Research Interest

- 1. Geographic Information Systems (GIS)**
- 2. Photogrammetry**
- 3. Geodesy**
- 4. Land Surveying**
- 5. Global Positioning System (GPS)**
- 6. Remote Sensing**

- 7. Image Integrated Inference Systems, IIS**
- 8. Names Science**
- 9. Miracles of Quran**
- 10. Translation**
- 11. Arts and Culture**

Published Papers

These are some of the published papers

Algarni, Dafer Ali. Geoid Modeling in Saudi Arabia. ITC Journal, Netherlands, 1997, No. 2, pp. 114-120.

Algarni, Dafer Ali. Integration of Image Classification and Image Matching: Towards Matching of Classes. Scientific Bulletin, Ain Shams University-Faculty of Engineering, Egypt, 2001, No. 36/4.

Algarni, Dafer Ali. The Missing Resolution in Geographic Information System (GIS). Paper presented at the first national GIS Symposium in Saudi Arabia; held in Al-Khobar, Nov 21-23, 2005 (19-21/10/1426H).

Algarni, Dafer. Integration Among Digital Photogrammetry, Remote Sensing and Geographic Information Systems. Proceedings of the First Saudi-Japanese Symposium: Remote Sensing Applications. Sponsored by King Abdulaziz City for Science and Technology (KACST) and Earth Remote Sensing Data Analysis Center (ERSDAC), 19-21 October, 1997, Riyadh, Saudi Arabia pp. 61-68.

Algarni, Dafer Ali. Role and Importance of Natural Language in Geomatics Engineering. XVIII Surveying and Mapping Educators Conference 2001: A Spatial Odyssey, Penn State University, United states of America, July 15-19, 2001, Pp. 55-65.

Algarni, Dafer. Ali: Towards automatic image classification approach for remotely sensed data. The American Congress for Surveying and mapping (ACSM) and American Society of Photogrammetry and Remote Sensing (ASPRS) annual conference, Reno, USA, April 25-28, 1994.

Algarni, Dafer. Ali: Interpretation in remote sensing as abductive inference. The American Congress for Surveying and mapping (ACSM) and American Society of Photogrammetry and Remote Sensing (ASPRS) annual conference, Reno, USA, April 25-28, 1994.

Algarni, Dafer. Compression of Remotely Sensed Data Using JPEG. International Archives of Photogrammetry and Remote Sensing, Vienna, Austria, 1996, Vol. XXXI, Part B3.

12.

Algarni, Dafer Ali and Ismat M El hassan. Comparison of Thin Plate Spline, Polynomial, C-Function and Shepard s Interpolation Techniques with GPS-

Derived DEM. ITC Journal (International Journal of Applied Earth Observation and Geoinformation), Netherlands, 2001, Vol. 3, No. 2, pp. 155-160.

Algarni, Dafer Ali. And Abdulla Elsadig A. Heighting and Distance Accuracy with Electronic Digital Levels. Journal of King Saud University (Engineering Sciences), Saudi Arabia, 1998, Vol. 10, No. 2.

Algarni, Dafer Ali. And Abdulla Elsadig A. Assessment of Human Impact on the Environment in Hyper-Arid areas Using Remote Sensing. Asian-Pacific Remote Sensing and GIS Journal, Thailand, 1996, Vol. 9, No. 1, .

Algarni, Dafer Ali. And Abdulla Elsadig A. Mapping Waste-Disposal Sites Using Spot Remote Sensor Data: Riyadh Case. Journal of King Saud University (Engineering Sciences), Saudi Arabia, 1998, Vol. 10, No. 1.

Abou Beih O. M. and Dafer A. Algarni, A proposed Algorithm for Geoid Determination in Saudi Arabia Using GPS Measurements: Australian Surveyor, Australia, 1997, Vol. 42, No. 4.

Ali, A. Elsadig and Dafer Ali Algarni, Accuracy of Measurement with Various Targets at Different Distances. Surveying and Land Information Systems, United States of America, 2000, Vol. 60, No. 4, pp. 243-250.

Ali, A. Elsadig and Dafer Ali Algarni, Modification of The Error Equation in Angular Theodolite Measurements. Accepted for publication in Journal of King Saud University-Engineering Sciences, Saudi Arabia, 2001, Vol. 15, No. 2.

Ali, A. Elsadig and Dafer Ali Algarni, The Effect of Data Compression on Remotley Sensing Image Classification. Journal of King Saud University-Engineering Sciences, Saudi Arabia, 2000, Vol. 12, No. 2, pp. 187-197.

Al-Asmari A. and Dafer Algarni. Fast Algorithm for Image Classification with Low Computational and Memory Requirements. Published in the Symposium of Computer Networking and Distributed Database, Riyadh, SA, March 3 - 4, 1998.

Ali A.. Elsadig and Dafer Ali Algarni. Evaluating Cartographic Accuracy of Some Digitizing Tables. King Saud University Journal (Engineering Science), Vol. 17, No. 1, 2003.

Projects and Research

1. Evaluation of the available maps for Riyadh District and Setting up Procedures for choosing the suitable maps for different Engineering Applications. Project # 18/419, College of Engineering Research Center, KSU. (completed).

2. Names of things, Science and Technology: The Great Scientific Miracle Sing. Project # 46/426, College of Engineering Research Center, KSU, (completed).

3. Other Projects are to be proposed in the near future.

Conferences and Workshops

- * American Congress of Surveying and Mapping and American Society of Photogrammetry and Remote Sensing (ACSM/ASPRS) Annual Convention. Baltimore, Maryland, 1989.**
- * The first National GIS Symposium in Saudi Arabia; Al-Khobar, Saudi Arabia, Nov 21-23, 2005 (19-21/10/1426H).**
- * The Second National GIS Symposium in Saudi Arabia; Al-Khobar, Saudi Arabia, 23-25/4/2007 (6-8/4/1428H).**
- * The First Saudi-Japanese Symposium: Remote Sensing Applications. King Abdulaziz City for Science and Technology (KACST) and Earth Remote Sensing Data Analysis Center (ERSDAC), 19-21 October, 1997, Riyadh, Saudi Arabia pp. 61-68.**
- * XVIII Surveying and Mapping Educators Conference, 2001: A Spatial Odyssey, Penn State University, United states of America, July 15-19, 2001.**
- * The American Congress for Surveying and mapping (ACSM) and American Society of Photogrammetry and Remote Sensing (ASPRS) annual convention, Reno, USA, April 25-28, 1994.**
- * International Archives of Photogrammetry and Remote Sensing, Vienna, Austria, 1996.**
- * The computer Networking Distributed Database Conference, Riyadh, SA, March 3-4, 1998.**
- * Remote Sensing Arabia: for the Betterment of People Conference, King Abdulaziz City of sciences and technology and ISPRS, 9-11/5/2005, Riyadh, SA.**
- * The Geo-Information Day Workshop, Geo-Tech Company, Riyadh, 12-5-2005.**
- * Nanotechnology Workshop, KACST, Riyadh, 29-31/1/2006.**
- * Introduction to Geograhic Information System Workshop, Remote Sensing Arabia: for the Betterment of People Conference, King Abdulaziz City of sciences and technology and ISPRS, 7/5/2005, Riyadh, SA.**
- * New Remotely Sensed Systems Workshop, Remote Sensing Arabia: for the Betterment of People Conference, King Abdulaziz City of sciences and technology and ISPRS, 7/5/2005, Riyadh, SA.**

*** Digital Mapping Workshop. Remote Sensing Arabia: for the Betterment of People Conference, King Abdulaziz City of sciences and technology and ISPRS, 8/5/2005, Riyadh, SA.**

*** Other Conferences, Symposiums and Workshops are being listed in the Arabic CV.**

Practical Experiences and Advisory

- 1. Consultant of several private companies in Riyadh.**
- 2. Consultant at The Geographic Information System , GIS Organization.**
- 3. Consultant at several Internet sites in Geoinformation sciences and technologies.**
- 4. Consultant at several Internet Cultural Sites.**
- 5. A PhD Examiner of two degrees in Geographic Information Systems.**

Many others unlisted here.

Councils and Committees

- 1. Member of the Civil Engineering Department Council since 1992.**
- 2. Member of the Graduate Studies Council at King Saud University, since 2007.**
- 3. Head of the Council of the GIS site (www.gisclub.net).**
- 4. Member of the KSU committee of Following up the technical and financial issues of KACST Projects, since 2007.**
- 5. Member of the ABET (Accreditation Committee) at Civil Engineering, since 2006.**
- 6. Member of the editorial Board of the Arabian Geograpfic Information Systems Journals, since 1425.**
- 7. Member of the earth sciences society, since 2006.**
- 8. Member of Abha Cultural Club, since 1424.**
- 9. Member of the Promotion Committee of Civil Engineering, since 2006.**
- 9. Member of the Scientific Committee at the Graduate Studies of King Saud University, since 2007.**

10. Member of the supervisory committee of the 7th Saudi Engineering Conference, 1428 (2007).

12. Head of the Publishing Committee at the 7th Saudi Conference, 1428 (2007).

13. Head of the social and cultural committee at College of Engineering, KSU, 1415-1417.

14. Supervisor of his net site www.dr-algarni.net since (1425 – 2005).

Taught Courses:

- **Geographic Information Systems (GIS).**
- **Adjustment Computations**
- **Statistics and Probability**
- **Photogrammetry**
- **Remote Sensing courses.**
- **Geodesy**
- **Global Positioning System (GPS).**
- **Land Surveying**

BOOKS

Nine books have been published. Please see the Arabic CV for more activities and details.