

## **Mohammad A. Rajabi**

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### **Education:**

**Ph.D.:** Geospatial Information Systems (GIS) and Land Tenure, 2003  
Dept. of Geomatics Eng., University of Calgary, Calgary, Alberta, Canada

**M.Sc.:** Geodesy, 1994  
Dept. of Surveying Eng., K.N.Toosi University of Technology, Tehran, Iran  
(First Graduate of the Program and Graduated with the Highest Rank of the Year)

**B.Sc.:** Surveying Engineering, 1989  
Dept. of Surveying Eng., K.N.Toosi University of Technology, Tehran, Iran

### **Research Interests:**

- Geospatial Information Systems (GIS)
  - Software Engineering and GIS
  - Design and Implementation of GIS
  - Web GIS
  - Mobile GIS
  - Application of GIS in different disciplines (such as health, natural hazards, ...)
- Mobile Mapping
- Shape From Shading (SFS)
- Digital Terrain Modeling (DTM)
- Global Positioning System (GPS)
- Deformation Analysis Using GPS and Geodetic Networks
- Integrated Navigation Systems (GPS/INS)

### **Teaching Activities:**

- Geodesy I (undergrad.)
- Geodesy II (undergrad.)
- Satellite Geodesy (undergrad.)
- Problem Solving Using C++ (undergrad.)
- Technical Communication (undergrad. and grad.)
- Data Management in GIS (grad.)

- Advanced GIS (grad.)
- Integrated Navigation Systems (GPS/INS) (grad.)
- Introduction to ArcGIS Software (Continuing Education)

### **Computer Knowledge and Programming Ability:**

- MatLab
- Fortran
- Visual Basic
- Visual C++
- HTML
- ASP.net
- C#
- MS SQL Server
- Networking

### **Recent Publications and Conference Papers:**

1. Mansourpour M., M.A. Rajabi, and J.A.R. Blais (2006). Effects and Performance of Speckle Noise Reduction Filters on SAR Imageries. Topographic Mapping from Space, ISPRS Ankara Workshop, Ankara, Turkey, Feb 14-16.
2. Hosinali F. And M.A. Rajabi (2005). Forest Fire Management Using GIS. GIS Planet 2005, 2<sup>nd</sup> International Conference & Exhibition on Geospatial Information, Estoril, Portugal, May 30 – June 2.
3. Rajabi M.A. and J.A.R. Blais (2004). Optimization of DTM Interpolation Using SFS with Single Satellite Imagery. The Journal of Supercomputing, Vol. 28, pp. 193-213.
4. Rajabi M.A. and J.A.R. Blais (2003). Spatial Enhancement of Digital Terrain Model Using Shape from Shading With Single Satellite Imagery. Computational Science and Its Applications, Part I, Edited by V. Kumar, M.L. Gavrilova, C.J.K. Tan. Lecture Notes in Computer Science, Vol. 2667, pp. 105-113, Springer-Verlag.
5. Rajabi M.A. and J.A.R. Blais (2002). Digital Terrain Model Densification Using Single Satellite Imagery. Canadian Geophysics Union, Banff, Alberta, Canada, May 18-21.
6. Rajabi M.A. and J.A.R. Blais (2002). Application of Hierarchical Data Format in Geosciences, Canadian Geophysics Union, Banff, Alberta, Canada, May 18-22.

7. Kent S., M.A. Rajabi, J.A.R. Blais (2002). Uncertainty and Reliability in Geospatial Information Systems. Canadian Geophysics Union, Banff, Alberta, Canada, May 18-21.
8. Blais J.A.R., D.A. Provins, M.A. Rajabi (2002). Challenges in Advanced Geocomputations and Visualization. Canadian Geophysics Union, Banff, Alberta, Canada, May 18-21.
9. Rajabi M.A. and J.A.R. Blais (2002). Densification of DTM Grid data Using Single Satellite Imagery, Joint International Symposium on Geospatial Theory, Processing and Applications, ISPRS, Vol. 34, Part 4, "GeoSpatial Theory, Processing and Applications", Ottawa, ON, Canada, July 8-12.
10. Rajabi M.A. and J.A.R. Blais (2002). Improvement of Digital Terrain Model Interpolation Using SFS Techniques with Single Satellite Imagery, International Conference on Computational Science-ICCS2002, Amsterdam, The Netherlands. Computation Science part III, Edited by P.M.A. Sloot, C.J.K. Tan, J.J. Dongarra, and A.G. Hoekstra. Lecture Notes in Computer Science, Vol. 2331, pp. 164-173, Springer-Verlag.
11. Rajabi M.A. and J.A.R. Blais (2001). Densification of Digital Elevations Using Shape from Shading with Single Satellite Imagery. International Conference on Computational Science – ICCS2001, San Francisco, USA, May 2001. Computational Science – Part II, Edited by V.N. Alexandrov, J.J. Dongarra, B.A. Juliano, R.S. Renner, and C.J.K. Tan. Lecture Notes in computer Science, Vol. 2074, pp. 3-12. Springer-Verlag.
12. Rajabi M.A., D.A. Provins, and V. Tao (2001). Creating Street Mosaics Using Video Image Sequence. The 3<sup>rd</sup> International Symposium on Mobile Mapping Technology (FIG), Commission 5, Cairo, Egypt, Jan 3-5.
13. Rajabi M.A., J.A.R. Blais and F. Martin (2000). Georeferencing Challenges in Western Canada, Geocanada 2000, Calgary, Alberta, Canada.

### **Professional Membership**

- GIS Standards Technical Committee, National Cartographic Center, Tehran, Iran
- Board of Governor, Surveying College, National Cartographic Center, Tehran, Iran
- Board of Management, Iranian Society of Surveyors ([www.issiran.org](http://www.issiran.org))

### **Projects**

- Jan. 2006: Application of GIS in Statistical Center of Iran

- Jan. 2007 up to now: Project Manager, Design and Implementation of GIS in City of Samen, Mashhad, Iran.