

# GEOMATICA

THE JOURNAL OF GEOSPATIAL INFORMATION SCIENCE, TECHNOLOGY AND PRACTICE /  
LA REVUE DES SCIENCES DE L'INFORMATION GÉOSPATIALE, DE LA TECHNOLOGIE ET DE LA PRATIQUE

Nicholas Chrisman and / et Gilles Cotteret  
Guest Editors / Rédacteurs invités

## FEATURES / ARTICLES DE FOND

- 311/ Foreword / Avant-propos  
312 **Nicholas Chrisman and / et Gilles Cotteret**
- 313 Comparison of Stationary Antenna Grid and Portable PIT Systems for Studying Fish Habitat Use  
**Patricia Johnston and Normand E. Bergeron**
- 321 Modélisation géologique 3D : spécifications et apports des systèmes experts  
**E. Janssens-Coron, J. Pouliot, B. Moulin, A Rivera**
- 333 A Dynamic Reference Surface for Heights in Canada  
**Elena Rangelova, Michael G. Sideris and Georgia Fotopoulos**
- 341 GeoSketch : vers une démocratisation du croquis en mobilité  
**Matieu Rondeau, Stéphane Roche et Matthieu Bach**
- 355 Site-Specific Seasonal Baselines for Fire Risk in Ontario  
**D.G. Woolford, W.J. Braun, C.B. Dean and D.L. Martell**
- 365 Conception et développement d'un outil de modification de la segmentation routière  
**K. Guilloitte, Y Bédard, S. Larrivée et T. Badard**
- 383 Improving GPS Localization with Vision and Inertial Sensing  
**Adel Fakh, Samantha Ng and John Zelek**
- 397 Finding Anomalies in High-Density LiDAR Point Clouds  
**J.W. Harrison, F. P. Ferrie, S.W. Hefford, C. Samson, K. Kusevic, P. Mrstik and P.F.W. Iles**
- 407 Augmenting the Iterative Closest Point (ICP) Alignment Algorithm with Intensity  
**S.W. Hefford, C. Samson, J.W. Harrison, F.P. Ferrie, K. Kusevic, P. Mrstik and P.J.W. Iles**
- 419 Developing an Adaptive Topological Tessellation for 3D Modeling in Geosciences  
**L. Hashemi Beni, Mir Abolfazl Mostafavi, Jacynthe Pouliot and Rene Therrien**

## DEPARTMENTS / CHRONIQUES

- 309/310 President's Report / Rapport du président  
**Simon C. Lanoix**
- 364 Directives aux auteurs
- 382 Directives aux auteurs pour leurs manuscrits revus
- 406 Instructions to Authors—Final Manuscripts
- 333 Geomatics and the Law:  
Access to Beaches: Some Recent Canadian Decisions  
**Izaak de Rijcke**
- 436 Book Reviews  
**Gerald McGrath**
- 441/446 Industry News / New Products  
**Robin Becker / Roger Shreenan**
- 449 The International Scene: ICA, FIG, ISPRS  
**James S. Simpson**
- 451 Field Notes & Office Memos  
**William R. (Bill) Brookes**
- 456 Fifty Years Ago  
**Harold E. Jones**
- 459 CIG Awards—2007-2008
- 460 Lives Lived: Al Webster and Paddy Brennan
- 461 Association of Canada Lands Surveyors /  
Association des arpenteurs des terres du Canada
- 462 Calendar of Events / Calendrier des événements
- 464 CIG Sustaining Members and Membership
- 466 New CIG Members
- 467 Membership List 2009
- 472 Index to Vol. 63, 2009

## ANNOUNCEMENTS / ANNONCES

- 432 CIG Lou Sebert Literary Award
- 435 UNB Geodesy and Geomatics Engineering Celebration
- 440 CIG Certification Program
- 445 *Geomatica* Back Issues for Sale
- 448 Magellan Professional Renamed Ashtech®
- 455 *Geomatica* Subscription Rates
- 460 E.H. Thompson Centenary Seminar
- 476 ISPRS Technical Commission III Symposium