

Geophysical Research Abstracts,  
Vol. 10, EGU2008-A-11815, 2008  
SRef-ID: 1607-7962/gra/EGU2008-A-11815  
EGU General Assembly 2008  
© Author(s) 2008



## **Regularized kernel-based inversion methods for land surface parameter and geodesy problems**

**M. Z. Nashed**, UCF and Y. Wang, IGG

Department of Mathematics, University of Central Florida, P. O. Box 161364, Orlando, FL 32816-1364

We consider the direct solution of the kernel-based bidirectional reflectance distribution function (BRDF) models for retrieval of land surface albedos from a limited number of satellite observations. This problem (see the presenting author's recent paper with Y. Wang et al. in *Remote Sensing of Environment*, vol. 111 (207), 36-50) and other problems in geodesy will be considered in the framework of discrete and continuous kernel methods. The emphasis in the presentation will be on the methodology and applicability of the mathematical and computational techniques.