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Geodesy for Gravity and Height Systems

Guest Editors:

Prof. Dr. Roland Pail

Technical University of Munich,
Institute of Astronomical and
Physical Geodesy, Arcisstrasse
21, 80333 Munich, Germany

Prof. Dr. Pavel Novák

Department of Geomatics,
University of West Bohemia,
Univerzitní 22, Plzeň, CZ-306 14
Pilsen, Czech Republic

Dr. George Vergos

Laboratory of Gravity Field
Research and Applications—
GravLab, Aristotle University of
Thessaloniki, Thessaloniki,
Greece

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Message from the Guest Editors

Geodesy in general and gravity field modeling in particular have become important disciplines of remote sensing of our planet. From the classical disciplines of geoid determination, geodetic reference systems realization, navigation and satellite orbit determination, and geophysics and interior earth structure, the gravity field science has in recent decades provided unique data on mass transport processes in the Earth system, primarily due to the GRACE and GRACE-Follow On satellite missions.

This Special Issue solicits contributions that focus on all aspects of global and regional gravity field determination, from theoretical and methodological issues to modeling results and applications. We seek contributions that focus on absolute and relative gravimetry, instrumentation and new sensors, gravity field theory, global and regional gravity field modeling at all spatial and temporal scales, and geophysical and oceanographic applications of gravity field models. Theory, methodology, and practical aspects of height system unification will also be a focus element, as well as current and future gravity field missions for monitoring mass transport processes in the Earth system.



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Special Issue



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Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.
Geological Survey (USGS), USGS
Western Geographic Science
Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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