

高解像度地形データを用いた地形研究アラカルト

日時 2013年9月21日(土) 10:00-12:00、13:00-15:00

場所 東京大学柏キャンパス総合研究棟 470号室

言語 英語

講演者 Ramon Arrowsmith (Arizona State University), Edwin Nissen (Colorado School of Mine), Michael Oskin (University of California Davis), Christopher Crosby (UNAVCO), 奥村晃史 (広島大学), 小口 高 (東京大学), 早川裕式 (東京大学)

概要

近年の航空および地上レーザスキャンの技術革命により、高解像度地形データの効率的な取得が可能となり、地形学においても様々な応用が行われてきています。本セミナーでは、とくに地上レーザスキャンの地形学的な活用に焦点を置いて、高解像度地形データの処理や解析手法について事例報告を通して交流を行います。なお、本セミナーは、南カリフォルニア地震センター (SCEC: Southern California Earthquake Center)、東京大学地震研究所・京都大学防災研究所で組織される地震システム研究ヴァーチャル研究所 (VISES: Virtual Institute for the Study of Earthquake Systems) と、東京大学空間情報科学研究センター (CSIS) との共催となります。

プログラム

- 10:00 Takashi Oguchi (Univ. Tokyo)
"Introduction to Center for Spatial Information Science, The University of Tokyo"
- 10:10 Ramon Arrowsmith (Arizona State University)
"Tectonic geomorphology, structural geology, and paleoseismology of fault zones from high resolution topography"
- 10:35 Mike Oskin (University of California, Davis)
"Near-field coseismic deformation from airborne and terrestrial lidar of the El Mayor-Cucapah surface rupture"
- 11:00 Edwin Nissen (Colorado School of Mines)
"Fault zone deformation and shallow slip from LiDAR differencing"
- 11:25 Yuichi S. Hayakawa (Univ. Tokyo)
"Analysis of high-definition topography using TLS: waterfall, debris flow and tsunami erosion"
- 11:50 Discussion
- 12:00 Lunch
- 13:00 Koji Okumura (Hiroshima University)
"A review of the mapping of faults since 1980s: plane table, TS, RTK-GPS, Lidar, and the future."
- 13:25 Chris Crosby (UNAVCO, OpenTopography)
"Facilitating access to high-resolution topography: Data collection support and online data distribution"
- 13:50 Discussion
- 14:50 End meeting

Geomorphological Applications of High-Definition Topography

Date Sep. 21, 2013 (Sat.) 9:00-12:00, 13:00-15:00

Venue Rm. 470, CSIS (Research Complex Bldg.), Kashiwa Campus, Univ. Tokyo

Language English

Overview

Along with the technical revolution of aerial and terrestrial laser scanning, various applications have been performed in geomorphology using high-definition or high-resolution topographic datasets. In this seminar we will discuss on processing and analysis of high-definition topographic data particularly focusing on, but not limited to, geomorphological applications through various case studies. This seminar is hosted by VISES (Virtual Institute for the Study of Earthquake Systems) organized by SCEC (Southern California Earthquake Center), ERI (Earthquake Research Institute, Univ. Tokyo) and DPRI (Disaster Prevention Research Institute, Kyoto Univ.), and CSIS (Center for Spatial Information Science, Univ. Tokyo)

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