

PE&RS

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PHOTOGRAMMETRIC ENGINEERING & REMOTE SENSING

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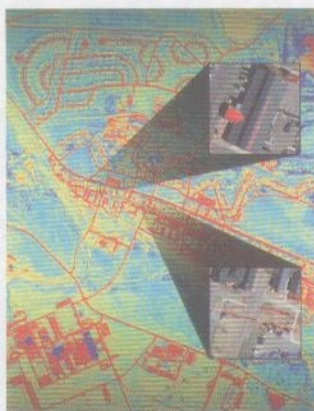
This month's cover shows an aerial thermographic image of the

F.E. Warren Air Force Base in Cheyenne, Wyoming. This mapping project required innovative geospatial solutions utilizing LiDAR and thermal imaging to precisely determine the location and extent of heat loss from over 500 buildings on the base. By visualizing the thermal imagery, the routing of the buried high temperature hot water (HTHW) system was revealed, as well as any constructed deviation from the system's as-built drawings. In addition, these technologies accurately assessed building roof heat loss and building thermal efficiency, which may require future maintenance, new improvements or a full roof replacement.

The inset images provide a simple illustration of identified thermal issues with the building roofs and the HTHW system on the base. In each image, the highlighted red area indicates a thermal inefficiency. The collected LiDAR data provides accurate information about the size, shape and slope of each building roof, which may also be used for solar mapping purposes.

For more information, contact Gerald Boyd, at gerald.boyd@merrick.com.

Images credit: Courtesy Merrick & Company.



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JOURNAL STAFF

Publisher
James R. Plasker
jplasker@asprs.org

Editor
Russell G. Congalton
russ.congalton@unh.edu

Executive Editor
Kimberly A. Tilley
kimt@asprs.org

Technical Editor
Michael S. Renslow
renslow76@comcast.net

Assistant Editor
Jie Shan
jshan@ecn.purdue.edu

Assistant Director – Publications
Rae Kelley
rkelley@asprs.org

Publications Production Assistant
Matthew Austin
maustin@asprs.org

Manuscript Coordinator
Jeanie Congalton
jcongalton@asprs.org

Circulation Manager
Sokhan Hing
sokhanh@asprs.org

Advertising Sales Representative
Mohanna Sales Representatives
Brooke King, brooke@mohanna.com
Kelli Nilsson, kelli@mohanna.com

CONTRIBUTING EDITORS

Grids & Datums Column
Clifford J. Mugnier
cjmce@lsu.edu

Book Reviews
John Iames
liames.john@epamail.epa.gov

Mapping Matters Column
Qassim Abdullah
Mapping_Matters@asprs.org

Website
webmaster@asprs.org



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Gerald Boyd, GISP

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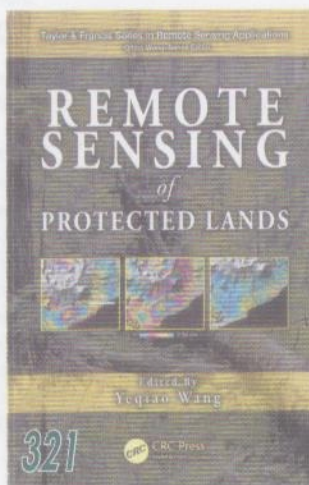
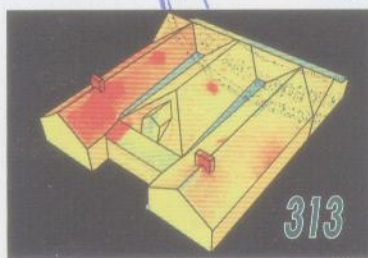
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An investigation into when multi-date image classification performs significantly better than single-date classification when using Landsat-5 TM imagery.

369 Pedestrian Network Extraction from Fused Aerial Imagery (Orthoimages) and Laser Imagery (Lidar)

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381 Automatic Camera Calibration in Close Range Photogrammetry

Clive S. Fraser

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PHOTOGRAMMETRIC ENGINEERING & REMOTE SENSING is the official journal of the American Society for Photogrammetry and Remote Sensing. It is devoted to the exchange of ideas and information about the applications of photogrammetry, remote sensing, and geographic information systems.

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