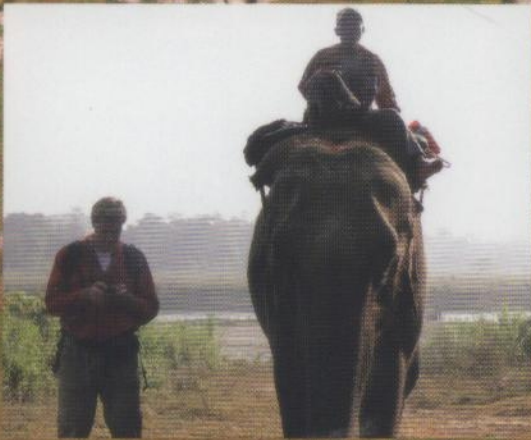


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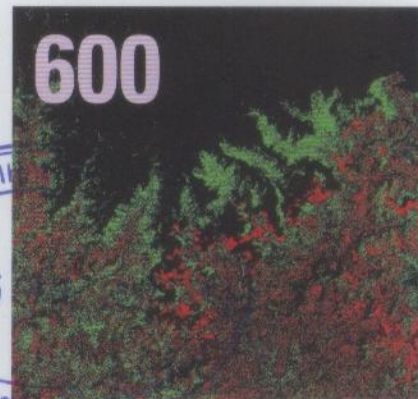
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- 627** An Accuracy Assessment of Tree Detection Algorithms in Juniper Woodlands
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 An accuracy assessment of three pixel-based approaches and two object-oriented classification approaches for estimating western juniper (*Juniperus occidentalis*) canopy cover.



The topographical complexities that make alpine research problematic find their fullest expression in Nepal where there is greater than 8000 meters of vertical relief in under 100 horizontal kilometers. The location of the Himalaya in the mid-latitudes helps drive the monsoonal

circulation patterns that dictate water availability for nearly a third of the world's population. The American Climber Science Program team has gathered data from elephant-back near sea level in Chitwan National Park to the summit of Mt. Everest. This cover has some of the ground reference points that we collected in the Everest region - they are highlighted all of the way up and slightly over the summit of Everest from the North side of the mountain. A similar data collection mission on the South side was derailed by dangerous mountain conditions this spring as global climate change melts the Khumbu glacier into a memory. Remnant ice on the mountains is unstable and will continue deteriorating for the foreseeable future - thus making this research more critical than ever.

For more information, contact Dr. John All, Associate Professor, Director, American Climber Science Program (ACSP), www.climberscience.com. Cover design by Sylvie Arques, ACSP, Western Washington University.

- 639** Sensitivity of Hydrological Outputs from SWAT to DEM Spatial Resolution
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- 653** Analysis of Dual-Sensor Stereo Geometry and Its Positioning Accuracy
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- 675** Application of the Savitzky-Golay Filter to Land Cover Classification Using Temporal MODIS Vegetation Indices
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A study to identify the optimal data form for land cover classification using periodic data for land cover.

APPLICATIONS PAPER