Applications of Individual Tree Detection (ITD)

Guest Editors:

Dr. Ana Paula Dalla Corte

Dr. Midhun (Mikey) Mohan

Dr. Mikko Vastaranta

Ms. Shruthi Srinivasan

Dr. Weijia Li

Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Recent advancements in the data processing sphere and introduction of low-cost Unmanned Aerial Vehicles (UAV) have resulted in proliferation of Individual Tree Algorithm (ITD) applications in areas of forestry and conservation in the past decade.

We, hereby invite authors from the broad forest remote sensing domain to consider this SI as a medium to publish their original and/or review articles that explore the applications of ITD algorithms – which can be based on satellite imagery, drone data, discrete return and full waveform LiDAR (Light Detection and Ranging), hyperspectral data and/or sensor fusion. A few of the potential topics, other than the ones mentioned previously, include:

- Tree-level attributes estimation and three-dimensional (3D) canopy structure analysis
- Development of novel ITD algorithms and/or comparison and evaluation of existing ones
- Compare and contrast performance of various remote sensing techniques in terms of ITD abilities
- Data fusion approach for improving tree detection accuracy and characterization
- ITD models transferable from one species to another as well as between disparate spatial scales and locations

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Special Issue

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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