→] Export   ↧ Download   🖶 Print   ✉ E-mail   📄 Save to PDF   ☆ Add to List   More... ⟩

ACRS 2020 - 41st Asian Conference on Remote Sensing • 2020 • 41st Asian Conference on Remote Sensing, ACRS 2020 • Deqing City, Virtual • 9 November 2020 through 11 November 2020 • Code 169013

View less ⌃

Forest tree analysis at gunung basor reserve forest based on spot images

Rashid W.A.A.[a],   Daliman S.[a] ✉

📑 Save all to author list

[a] Faculty of Earth Science, Universiti Malaysia Kelantan Jeli Campus, Jeli, Kelantan, 17600, Malaysia

| Abstract

  Author keywords

  Indexed keywords

  SciVal Topics

  Funding details

Abstract

Forests are the most important ecosystems and carbon pool, imparting with ecological offering and show a significant function in economic advantages. However, in present years, with the economic development and fast populace increase, global forests are going through a sequence of threats, which is sharp declined in forest range, biodiversity damage and degradation in environmental and biological system. Forest resource analysis and monitoring are drastically essential to explore and prevent climate change, ecological degradation and environmental loss. Forest canopy cover is relatively critical parameter that being evaluated in forest analysis and forest inventory. This study is to evolve a systematic framework for Forest Canopy Density (FCD) in tropical rainforests that gives significant in forest regulatory, microclimate changing and soil conditions. FCD model components are based on few of indexes, which are advanced vegetation, bare soil and canopy shadow. The final results of Forest Canopy Density (FCD) for each classes which consist of 30% very dense, 37.3% moderately dense, 18.2%

Related documents

FCD application of landsat for monitoring mangrove in central Kalimantan

Sukarna, R.M. , Syahid, Y.
(2015) Indonesian Journal of Geography

Forest canopy density assessment using high resolution LISS-4 data in Yamunanagar District, Haryana

Mothi Kumar, K.E. , Kumar, R. , Kumar, P.
(2018) International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives

Assessment of green cover in Faridabad District (India): A geospatial approach

Kumar, K.E.M. , Kumar, R. , Sihag, V.
(2020) ACRS 2020 - 41st Asian Conference on Remote Sensing

View all related documents based on references

Find more related documents in Scopus based on:

Authors ⟩   Keywords ⟩

low forest, 8.2% shrub and 6.3% non-forest. The highest value of r^2 is 0.94 which was between FCD and AVI. This research study propose novel method to use high-resolution satellite images. Remote sensing has been plausible to be able to assess the forest structure and large area biomass in a way that is more accurate at relatively low cost. SPOT images provide better outcomes when categorizing variables of forest standoff and forest cover, as they have greater spatial resolution. Hence, SPOT-7 making it ideal for applications for forest analysis.

Author keywords

Forest analysis;   Forest canopy density;   SPOT-7

Indexed keywords ⌄

SciVal Topics ⓘ ⌄

Funding details ⌄

References (9)   View in search results format >

☐ All

Export   🖶 Print   ✉ E-mail   📄 Save to PDF   Create bibliography

☐ 1 Azizi, Z., Najafi, A., Sohrabi, H.

Forest Canopy density estimating, using satellite images

(2008) *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, Part B8 37, pp. 1127-1130. Cited 35 times.
http://www.isprs.org/proceedings/XXXVIII/4-W15/

☐ 2 Biradar, C., Saran, S., Raju, P., Roy, P.
Forest Canopy Density Stratification: How Relevant is Biophysical Spectral Response Modelling Approach?
(2005) *Geocarto Int*, pp. 1-7. Cited 2 times.

☐ 3 Hyyppä, J., Hyyppä, H., Inkinen, M., Engdahl, M., Linko, S., Zhu, Y.-H.

Accuracy comparison of various remote sensing data sources in the retrieval of forest stand attributes

(2000) *Forest Ecology and Management*, 128 (1-2), pp. 109-120. Cited 283 times.
doi: 10.1016/S0378-1127(99)00278-9

View at Publisher

☐ 4 (2003) *Annual Report*. Cited 3342 times.
Kelantan Forestry Department. Kelantan: Forestry Department

☐ 5 Md Rodi, I.N., Daliman, S., Zakaria, R., Busu, I.

Characterisation of tropical rainforest tree structure based on remote sensing imagery

(2018) *Proceedings - 39th Asian Conference on Remote Sensing: Remote Sensing Enabling Prosperity, ACRS 2018*, 2, pp. 835-842. Cited 3 times.

6. Abidin, Noor Farisha Zainol
(2016) *WWF Annual Review*
Selangor: WWF-Malaysia

7. Rikimaru, A.
The concept of FCD mapping model and semi-expert system
(1999) *FCD Mapper Guide. International Tropical Timber Organization and Japan Overseas Forestry Consultants Association*, p. 90. Cited 10 times.

8. Salajanu, D., Olson, C.E.

The significance of spatial resolution: Identifying forest cover from satellite data

(2001) *Journal of Forestry*, 99 (6), pp. 32-38. Cited 23 times.

View at Publisher

9. Sodhi, N.S.

Tropical biodiversity loss and people - A brief review

(2008) *Basic and Applied Ecology*, 9 (2), pp. 93-99. Cited 27 times.
doi: 10.1016/j.baae.2007.11.001

View at Publisher

Daliman, S.; Faculty of Earth Science, Universiti Malaysia Kelantan Jeli Campus, Jeli, Kelantan, Malaysia; email:shaparas@umk.edu.my

︿ Top of page

About Scopus

Language

Customer Service

ELSEVIER

RELX