

DAFTAR PUSTAKA

- Asis, A. M. De and K. Omasa. 2007. Estimation of vegetation parameter for modeling soil erosion using Linear Spectral Mixture Analysis of Landsat ETM data. *Photogrammetry and Remote Sensing*. 62, pp. 309–324.
- Asner, G. P., J. M. O. Scourlock, and J. A. Hicke. 2003. Global Synthesis of Leaf Area Index Observations: Implications for Ecological and Remote Sensing Studies. *Global and Biogeography*. 12, 191–205.
- Azis, S. 2008. Evaluasi Kemampuan Lahan dan Pendugaan Erosi untuk Arah Pemanfaatan Lahan Wilayah Sub DAS Juwet dan Dondong, Gunungkidul, Yogyakarta. Tesis. Pascasarjana. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta.
- Badan Pusat Statistik Kabupaten Gunungkidul. 2017. Kabupaten Gunungkidul Dalam Angka (Gunungkidul Regency in Figures) 2017. Wonosari.
- Barclay, H. J. 1998. *Conversion of Total Leaf Area to Projected Leaf Area in Lodgepole Pine and Douglas-Fir*. Tree Physiology. 18, 185–193.
- Beadle, C. L. 1993. *Growth analysis*. Photosynthesis and production in a changing environment: a field and laboratory manual (ed. by D.O. Hall), pp. 36–46. Chapman & Hall, London.
- Brophy, J. J. and J. C. Doran. 1996. Essential oil of tropical *Asteromytus callistemon* and *Melaleuca* species: In search of interesting oils with commercial potential. *ACIAR Monograph* No. 40.
- Brown, D. G. 2001. A Spectral Unmixing Approach to Leaf Area Index (LAI) Estimation at The Alpine Treeline Ecotone. Dalam A. C. Millington, S. J. Walsh, and A. E. Osborne. *GIS and Remote Sensing Application in Biogeography and Ecology*. Springer US.
- Chavez, P. S. 1996. Image-based atmospheric corrections-revisited and improved. *Photogrammetric Engineering & Remote Sensing*. 62 (9), pp. 1025–1036.
- Clevers, J. G. P. W. and A. A. Gitelson. 2013. Remote estimation of crop and grass chlorophyll and nitrogen content using Red-Edge bands on Sentinel-2 and 3. *International Journal of Applied Earth Observation and Geoinformation*. 23, pp. 344–351.
- Core, E. L. 1955. *Plant Taxonomi*. N. Y. Prentice Hall Inc. New York. USA.
- Craven, L. A. and B. A. Barlow. 1997. *New Taxa and New Combination in Melaleuca (Myrtaceae)*. Novon.
- Daniel, T. W., J. A. Helms, and F. S. Baker. 1992. *Prinsip-Prinsip Silvikultur. Edisi Kedua*. Gadjah Mada University Press. Yogyakarta.

- Danoedoro, P. 2012. *Pengantar Penginderaan Jauh Digital*. Penerbit Andi. Yogyakarta.
- Dash, J. and P. J. Curran. 2004. The MERIS Terrestrial Chlorophyll Index. *International Journal of Remote Sensing*. 25, pp. 5403–5413.
- Daughtry, C. S., C. L. Walthall, M. S. Kim, E. Brown De Colstoun, and J. E. McMurtrey. 2000. Estimating corn leaf chlorophyll concentration from leaf and canopy reflectance. *Remote Sensing of Environment*. 74, pp. 229–239.
- Delegido, J., J. Verrelst, L. Alonso, and J. Moreno. 2011. Evaluation of Sentinel-2 Red-Edge bands for empirical estimation of green LAI and chlorophyll content. *Sensor*. 11, pp.7063-7081.
- Dimara, P. A. 2012. Pemanfaatan Citra Quickbird Untuk Estimasi Potensi Produksi Sagu Masak Tebang Di Distrik Sentani Kabupaten Jayapura, Provinsi Papua. Tesis. Program Studi Penginderaan Jauh. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta. Tidak Diterbitkan.
- Dinas Kehutanan dan Perkebunan Provinsi DIY. 2009. Rencana Pengelolaan Kelestarian Hutan KPH Yogyakarta. Tidak Diterbitkan.
- Dong, T., J. Meng, J. Shang, J. Liu, and B. Wu. 2015. Evaluation of chlorophyll-related vegetation indices using simulated Sentinel-2 data for estimation of crop fraction of absorbed photosynthetically active radiation. *IEEE Journal*. pp. 1939–1404.
- Elliot, A. C. and W. A. Woodward. 2007. *Statistical Analysis Quick Reference Guidebook: With SPSS Examples*. Sage Publications, Inc. United States of America.
- El-Nahry, A. H. and U. Altinbas. 2006. Processing and analyzing advanced hyperspectral imagery data for identifying clay minerals. A case study. *Journal of Applied Science Research* 2(4): 232-238, 2006.
- European Space Agency. 2015. *Sentinel-2 User Handbook*. Paris.
- Fauziana, F. 2016. Pemodelan Spasial Citra SPOT 7 untuk Estimasi Produksi Pucuk Teh (*Camellia sinensis* (L). O. Kuntze) di Perkebunan Teh PT Pagilaran Kabupaten Batang, Jawa Tengah. Tesis. Program Studi Penginderaan Jauh. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta. Tidak Diterbitkan.
- Fernandez-Manso, A, O. Fernandez-Manso, and C. Quintano. 2016. Sentinel-2A Red-Edge spectral indices suitability for discriminating burn severity. *International Journal of Applied Earth Observation and Geoinformation*. 50, pp. 170–175.
- Frampton, W. J., J. Dash, G. Watmough, and E. J. Milton. 2013. Evaluating the capabilities of Sentinel-2 for quantitative estimation of biophysical variables in vegetation. *ISPRS Journal of Photogrammetry and Remote Sensing*. 82, pp. 83-92.

- Gao, M. L., Zhao, W. Ji, Gong, Z. Ning, Gong, H. Li, Chen, Zhen, Tang, and X. Ming. 2014 Topographic correction of ZY-3 satellite images and its effects on estimation of shrub leaf biomass in mountainous areas. *Remote Sensing*. 6, pp.2745-2764.
- Ghozali, I. 2001. *Aplikasi Analisis Multivariate Dengan Program SPSS*. Badan Peneliti Universitas Diponegoro. Semarang.
- Gianto. 2009. Penentuan Fungsi Kelola Kawasan Hutan Berdasarkan Evaluasi Lahan Dan Kebutuhan Lahan Pertanian Masyarakat Di Sekitar Hutan (Kasus BDH Karangmojo, KPH Yogyakarta). Tesis. Tidak Diterbitkan. Program Studi Ilmu Kehutanan. Fakultas Kehutanan. Universitas Gadjah Mada. Yogyakarta.
- Gitelson, A. A. and M. N. Merzlyak. 1994. Spectral reflectance changes associated with autumn senescence of *Aesculus hippocastanum* L. and *Acer platanoides* L. leaves spectral features and relation to chlorophyll estimation. *Journal of Plant Physiology*. 143 (3), pp. 286–292.
- Gitelson, A. A., Y. Gritz, and M. N. Merzlyak. 2003. Relationships between leaf chlorophyll content and spectral reflectance and algorithms for non-destructive chlorophyll assessment in higher plant leaves. *Journal of Plant Physiology*. 160 (3), pp. 271–282.
- Green, A. A., M. Berman, P. Switzer, and M. D. Craig. 1988. A transformation for ordering multispectral data in terms of image quality with implications for noise removal. *IEEE Transactions on Geoscience and Remote Sensing*. Vol. 26, No. 1, pp. 65–74.
- Haboudane, D., J. R. Miller, N. Tremblay, P. J. Zarco-Tejadad, and L. Dextrazec. 2002. Integrated narrow-band vegetation indices for prediction of crop chlorophyll content for application to precision agriculture. *Remote Sensing of Environment*. 81, pp. 416–426.
- Hardisky, M. A., V. Klemas, and R. M. Smart. 1983. The influence of soil salinity, growth form, and leaf moisture on the spectral radiance of *Spartina alterniflora* canopies. *Photogrammetric Engineering and Remote Sensing*. 49, pp. 77–83.
- Heyne, K. 1987. *Tumbuhan Berguna Indonesia Jilid III*. Yayasan Sarana Wana Jaya. Jakarta. Hal 1529-1533.
- Hoffer, R. M. 1978. Biological and physical considerations in applying computer-aided analysis technique to remote sensor data. Dalam Phillipe H. Swain. *Remote Sensing: The Quantitative Approach* (Chap. 5-2, pp. 231-241). McGraw-Hill International Book Company. New York. USA.
- Howard, J. A. 1996. *Penginderaan Jauh Untuk Sumberdaya Hutan Teori Dan Aplikasi*. Gadjah Mada University Press. Yogyakarta.
- <https://earth.esa.int/web/sentinel/user-guides/sentinel-2-msi/resolutions/spatial>. Esa Sentinel Online. User Guides. Diakses pada tanggal 21 Agustus 2017.

- <http://www.harrisgeospatial.com/Support/SelfHelpTools/HelpArticles/HelpArticles-Detail/TabId/2718/ArtMID/10220/ArticleID/16262/Push-Broom-and-Whisk-Broom-Sensors.aspx>. Diakses pada tanggal 16 Mei 2018.
- https://id.wikipedia.org/wiki/Kayu_putih. Diakses pada tanggal 21 Juni 2018.
- Immitzer, M., F. Vuolo, and C. Atzberger. 2016. First experience with Sentinel-2 data for crop and tree species classifications in central Europe. *Remote Sensing*. 8, pp. 166.
- Jensen, J. R. 2005. *Introductory Digital Image Processing: A Remote Sensing Perspective*. Prentice-Hall, Englewood, New Jersey.
- Jia, L., Z. Yu, F. Li, M. Gnyp, W. Koppe, G. Bareth, Y. Miao, X. Chen, and F. Zhang. 2011. Nitrogen status estimation of winter wheat by using an Ikonos satellite image in the north China plain. in Li, D. and Y. Chen. (eds) *5th Computer and Computing Technologies in Agriculture (CCTA)*. Beijing, Cina: Springer, IFIP Advances in Information and Communication Technology. pp. 174–184.
- Kartikawati, N. K., A. Rimbawanto, M. Susanto, L. Baskorowati, dan Prastyono. 2014. *Budidaya dan Prospek Pengembangan Kayu Putih (Melaleuca cajuputi)*. IPB Press. Bogor.
- Kasmudjo. 1982. *Dasar-Dasar Pengolahan Minyak Kayu Putih*. Yayasan Penerbit Fakultas Kehutanan UGM. Yogyakarta.
- Kasmudjo. 2011. *Buku Ajar Hasil Hutan Non Kayu. Laboratorium Hasil Hutan Non Kayu*. Bagian Teknologi Hasil Hutan. Fakultas Kehutanan UGM. Yogyakarta.
- Ketaren, S. dan Djatmiko. 1978. *Minyak Atsiri, Jilid I*. S. UI. Jakarta.
- Klein, A. G. and B. L. Isacks. 1999. Spectral mixture analysis of Landsat Thematic Mapper images applied to the detection of the transient snowline on tropical Andean glaciers. *Global and Planetary Change*. 22: 139–154.
- Laar, V. A. and Akca. 1997. *Forest Mensuration*. Cuvillier Verlag. Gottingen.
- Latan, H. 2014. *Aplikasi Analisis Data Statistik untuk Ilmu Sosial Sains dengan IBM SPSS*. Alfabeta. Bandung.
- Lillesand, T. M., R. W. Kiefer, and J. W. Chipman. 2015. *Remote Sensing And Image Interpretation (Seventh Edition)*. John Wiley & Sons, Inc. United States of America.
- Lo, C. P. 1996. *Penginderaan Jauh Terapan*. Universitas Indonesia–Press. Jakarta.
- Lukito, M. 2010. Inventarisasi Hutan Tanaman Kayu Putih (*Melaleuca cajuputi subsp. cajuputi* Powell) dalam Menghasilkan Biomassa dan Karbon Hutan (Kasus di Hutan Tanaman Kayu Putih, BKPH Sukun, KPH Madiun Perum Perhutani Unit II Jawa Timur). Tesis. Program Studi Ilmu Kehutanan. Fakultas Kehutanan. Universitas Gadjah Mada. Yogyakarta. Tidak Diterbitkan.

- Margaretha, E. W. 2013. Estimasi Cadangan Karbon Vegetasi Tegakan Di Kota Yogyakarta Dan Sekitarnya Berbasis ALOS AVNIR-2. Tesis. Program Studi Penginderaan Jauh. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta. Tidak Diterbitkan.
- Matthias, B. and H. Martin. 2003. Mapping imperviousness using NDVI and linear spectral unmixing of ASTER data in the Cologne-Bonn Region (Germany). *Proceedings of the SPIE 10th International Symposium on Remote Sensing*. 8-12 September 2003. Barcelona. Spain.
- Meaden, G. J. and J. M. Kapetsky. 1991. Geographical information systems and remote sensing in inland fisheries and aquaculture. *FAO Fisheries Technical Paper*. No. 318. Rome, FAO. 1991. 262p. <http://www.fao.org/docrep/003/t0446e/T0446E04.htm>. Diakses pada tanggal 3 Mei 2018.
- Murti, S. H. 2014. Permodelan Spasial Untuk Estimasi Produksi Padi Dan Tembakau Berdasarkan Citra Multiresolusi (Kasus untuk Produksi Padi di Kabupaten Wonosobo dan Sragen, serta Produksi Tembakau di Kabupaten Temanggung, Provinsi Jawa Tengah). Disertasi. Minat Studi Penginderaan Jauh. Program Studi Ilmu Geografi. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta. Tidak Diterbitkan.
- Nurlina. 2008. *Linear Spectral Mixture Analysis* untuk Kajian Perubahan Tutupan Lahan di Daerah Perkotaan Menggunakan Data Satelit Landsat Multitemporal. Tesis. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta. Tidak Diterbitkan.
- Plaza, A. J. and C. I. Chang. 2008. High Performance Computing in Remote Sensing. Chapman & Hall/CRC. United State.
- Pobas, M. 2012. Rancangan Tapak Pengolahan Limbah Cair Pabrik Minyak Kayu Putih (*Melaleuca cajuputi subsp. cajuputi* Powell) Dengan Reaktor Hibrid Anaerob (Kasus Pabrik Minyak Kayu Putih Gelaran, Gunungkidul). Tesis. Program Studi Ilmu Kehutanan. Fakultas Kehutanan. Universitas Gadjah Mada. Yogyakarta. Tidak Diterbitkan.
- Purhartanto, L. N., O. Kusumawardana, T. B. Hutomo, dan K. A. Tamimi. 2015. *Pesona Alam Hutan dan Kebun Pengungkit Pertumbuhan Ekonomi Kawasan Kecamatan*. Dinas Kehutanan dan Perkebunan Daerah Istimewa Yogyakarta. Yogyakarta.
- Qi, J., A. R. Huete, M. S. Moran, A. Chaehbouni, and R. D. Jackson. 1993. Intepretation of vegetation indices derived from multi-temporal SPOT images. *Remote Sensing of Environment*. 44, pp. 89–101.
- Radoux, J., G. Chome, D. C. Jacques, F. Waldner, N. Bellemans, N. Matton, C. Lamarche, R. d'Andrimont, and P. Defourny. 2016. Sentinel-2's potential for sub-pixel landscape feature detection. *Remote Sensing*. 8, pp. 488.

- Reeves, R. G., A. Anson, D. Landen, F. J. Janza, H. M. Blue, and J. E. Johnston. 1975. *Manual Of Remote Sensing (Volume I) Theory, Instruments And Techniques*. American Society Of Photogrammetry. Falls Church, Virginia.
- Richter, K., T. B. Hank, F. Vuolo, W. Mauser, and G. D'Urso. 2012. Optimal exploitation of the Sentinel-2 spectral capabilities for crop leaf area index mapping. *Remote Sensing*. 4, pp. 561–582.
- Rock, B. N., J. E. Vogelmann, D. L. Williams, A. F. Vogelmann, and T. Hoshizaki. 1986. Remote detection of forest damage. *Bio Science*. 36, pp. 439.
- Rondeaux, G., M. Steven, and F. Baret. 1996. Optimization of Soil-Adjusted Vegetation Indices. *Remote Sensing and Environment*. 58, pp. 1–12.
- Schmidt, F.H and J.H.A. Ferguson. 1951. *Rainfall Types Based on Wet and Dry Periode Roties for Indonesian with Western New Guinee*. Verhanding no.42. Kementerian Perhubungan Djawatan Meteorologi dan Geofisika.
- Schroeder, T. A., W. B. Cohen, C. Song, M. J. Canty, and Z. Yang. 2006. Radiometric correction of multi-temporal Landsat data for characterization of early successional forest patterns in western Oregon. *Remote Sensing of Environment*. 103, pp. 16–26.
- Simon, H. 1996. *Metode Inventore Hutan*. Aditya Media. Yogyakarta.
- Somers, B., Asner, P. Gregory, L. Tits, and P. Coppin. 2011. Endmember variability in Spectral Mixture Analysis: A review. *Remote Sensing of Environment*. 115 (7), pp. 1603–1616.
- Soerianegara, I. dan A. Indrawan. 1988. *Ekologi Hutan Indonesia*. Institut Pertanian Bogor. Bogor.
- Steel, R. G. D. and J. H. Torrie. 1980. *Principles and Procedures of Statistics (2nd edition)*. McGraw Hill Book Company. New York. USA.
- Suginingsih, I. Edris, M. G. Wibisono, P. Suryanto, dan E. Faridah. 2005. *Buku Ajar Silvika*. Fakultas Kehutanan UGM. Yogyakarta.
- Sugiyono. 2014. *Statistik Untuk Penelitian*. Alfabeta. Bandung.
- Sunanto, H. 2003. *Budidaya dan Penyulingan Kayu Putih*. Kanisius. Yogyakarta.
- Susanto, M., J. C. Doran, R. Arnold, and A. Rimbawanto. 2003. Genetic variation in growth and oil characteristics of *Melaleuca cajuputi* subsp. *cajuputi* and potential for genetic improvement. *Journal of Tropical Forest Science*. 15 (3), pp. 469–482.
- Susetyo, I. 2012. Permodelan Estimasi Produksi Tanaman Karet (*Hevea brasiliensis* Muell.-Arg) Berbasis Citra Satelit, Potensi Genetik, Dan Satuan Medan (Studi Kebun Getas, PTPN IX, Salatiga, Kabupaten Semarang, Jawa Tengah). Tesis. Program Studi Penginderaan Jauh. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta. Tidak Diterbitkan.
- Sutanto. 1986. *Penginderaan Jauh (Jilid 1)*. Gadjah Mada University Press. Yogyakarta.

- Sutanto. 1987. *Penginderaan Jauh (Jilid 2)*. Gadjah Mada University Press, Yogyakarta.
- Suwarsono, M. Arief, H. S. Sulma, N. Suryo H., H. Sulyantoro, K. T. Setiawan. 2011. Pengembangan Metode Penentuan Indeks Luas Daun Pada Penutup Lahan Hutan dari Data Satelit Penginderaan Jauh Spot-2. *Jurnal Penginderaan Jauh*. Lembaga Penerbangan dan Antariksa Nasional. 8, 50–59.
- Teillet, P. M., B. Guindon and D. G. Goodenough. 1982. On the slope-aspect correction of multispectral scanner data. *Canadian Journal of Remote Sensing*. 8 (2), pp. 84–106.
- Vanclay, J. K. 1995. Growth model for tropical forest: A synthesis of models and methods. *Forest Science*. 41 (1), pp. 7–42.
- Vohland, M., J. Stoffels, C. Hou, and G. Schuler. 2007. Remote sensing techniques for forest parameter assessment: Multispectral classification and Linear Spectral Unmixing Analysis. *Silva Fennica, Research Articles*. 41 (3), pp. 441–456.
- Wang, Q., S. Adiku, J. Tenhunen, and A. Granier. 2005. On the Relationship of NDVI with Leaf Area Index in a Deciduous Forest Site. *Remote Sensing of Environment*. 94, 244–255.
- Weng, Q. 2010. *Remote Sensing and GIS Integration: Theories, Methods, and Application*. McGraw-Hill. New York.
- Wicaksono, P. 2017. Mangrove above-ground carbon stock mapping of multiresolution passive remote sensing systems. *International Journal of Remote Sensing*. 38 (6), pp. 1551–1578.
- Wiratmoko, D. 2014. Penggunaan Citra Worldview-2 Untuk Estimasi Produksi Kelapa Sawit (*Elaeis guineensis* Jacq.) Sebagai Implementasi Pertanian Presisi (Studi di Unit Kebun Adolina, PT. Perkebunan Nusantara IV Kabupaten Serdang Bedagai, Provinsi Sumatera Utara). Tesis. Program Studi Penginderaan Jauh. Fakultas Geografi. Universitas Gadjah Mada. Yogyakarta. Tidak Diterbitkan.
- Wójtowicz, M., A. Wójtowicz, and J. Piekarczyk. 2016. Application of remote sensing methods in agriculture. *Communications in Biometry and Crop Science*. 11 (1), pp. 31–50.
- Utami, N. W. 1995. *Pohon Kehidupan*. Badan Pengelola Gedung Manggala Wanabakti dan Prosea Indonesia. Jakarta.
- Utomo, P. M. 2012. Model Produksi Daun Pada Hutan Tanaman Kayu Putih (*Melaleuca cajuputi* subsp. *cajuputi* Powell). Disertasi. Sekolah Pasca Sarjana. Institut Pertanian Bogor. Bogor. Tidak Diterbitkan.