

## DAFTAR PUSTAKA

- A.Shiflett, S. et al., 2017. Variation in the urban vegetation, surface temperature, air temperature nexus. *Science of The Total Environment*, Volume 579, pp. 495-505.
- Aboelata, A. A. A., 2017. Study the vegetation as urban strategy to mitigate urban heat island in mega city Cairo. *Procidea Environmental Science* , Volume 37.
- Aggarwal, S., 2015. Principles of Remote Sensing. *Satellite Remote Sensing and GIS Applications in Agricultural Meteorology*, pp. 23-28.
- Ahmed, S., 2017. Assessment of urban heat islands and impact of climate change on socioeconomic over Suez Governorate using remote sensing and GIS techniques. *The Egyptian Journal of Remote Sensing and Space Sciences*.
- Alghannam A.R.O. & Al-Qahtnai, M., 2012. Impact of vegetation cover on urban and rural areas of arid climates. Volume 3, pp. 1-5.
- Barret, F., Guyot, G. & Major, D. J., 1990. A ratio vegetation index adjusted for soil brightness. *International Journal of Remote Sensing*, 11(5), pp. 727-740.
- Beaumont, R., 2012. *An Introduction to statistics*. 1 ed. New York: s.n.
- Beyerer, J., León, F. P. & Frese, C., 2016. *Machine Vision: Automated Visual Inspection: Theory, Practice and Applications*. Berlin; Heidelberg: Springer.
- Campos-Taberner, M., García-Haro, F. J. & Confalonieri, R., 2016. Multitemporal monitoring of plant area index in the valencia rice district with PocketLAI. *Remote Sensing*, Volume 8, p. article no.202.
- Cao, X., Onishi, A., Chen, j. & Imura, H., 2010. Quantifying the cool island intensity of urban parks using ASTER and IKONOS data. *Urban Plan*, pp. 224-231.

- Chavez, S., 1988. An improved dark-object subtraction technique for atmospheric scattering correction. *Remote Sensing Environment*, Volume 24, p. 459–479.
- Chen, A., Yao, X. A., Sun, R. & Chen, L., 2014. Effect of urban green patterns on surface urban cool islands and its sasonal variations. *Urban Forestry & Urban Greening*, Volume 13, p. 646–654.
- Chen, C. & Hadfield, R., 2015. Determining the Leaf Emissivity of Three Crops by Infrared Thermometry. *Sensors (Basel)*, 15(5), p. 11387–11401.
- Chow, W. T. L., Pope, R. L., Martin, C. A. & Brazel, A. J., 2011. Observing and modeling the nocturnal park cool island of an arid city: horizontal and vertical impacts. *Theoretical Application Climatology*, Volume 201, p. 197–211.
- Cotter, M. et al., 2017. Measuring leaf area index in rubber plantations – a challenge. *Ecological Indicators*, Volume 82, p. 357–366.
- Craig, D. & Thirunamachandran, T., 1989. Third-body mediation of resonance coupling between identical. *Chem. Phys*, 135(1), p. 37–48.
- Danoedoro, P., 2012. *Pengantar Penginderaan Jauh Digital*. Yogyakarta: ANDI.
- Du, H. et al., 2017. Quantifying the cool island effects of urban green spaces using remote sensing Data. *Urban Forestry & Urban Greening*, Volume 27, p. 24–31.
- EPA & Agency, U. E. P., 2016. *Heat Island Effect*. [Online] Available at: <http://www.epa.gov/heat-islands> [Accessed 2 10 2017].
- Fallmann, J. et al., 2016. Forecasting Models for Urban Warming in Climate Change. In: F. Musco, ed. *Counteracting Urban Heat Island Effects in a Global Climate Change Scenario*. London: Springer, pp. 2-39.
- Fry, G., 2017. *A Library about Climate Change*. [Online] Available at: <http://www.globalwarming-sowhat.com/warm--cool/> [Accessed 3 2 2018].

- Gaffin, S. R. et al., 2008. Variations in New York City's urban heat island strength over time and space.. *Theoretical and Applied Climatology*, Volume 95, pp. 1-11.
- GISPEDIA, 2015. *Pengertian Penginderaan Jauh*. [Online] Availableat:<http://www.gispedia.com/2016/03/Pengertian-Penginderaan-Jauh.html>[Accessed 5 2 2018].
- Gordon, H. & Clark, D., 1981. Clear water radiances for atmospheric correction of coastal zone color. *Application Optic*, 20(4), p. 713–720.
- Gupta, R., S.Prasad, T.S.V.Nadham & G.H.Rao, 2009. Relative sensitivity of district mean RVI and NDVI over an agrometeorological zone. *Advances in Space Research*, 13(5), pp. 261-264.
- Hardwick, S. R., Toumi, R. & Marion, 2015. The relationship between leaf area index and microclimate in tropical forest and oil palm plantation: Frest disturbance drives changes in microclimate. *Agricultural and Forest Meteorology*, Volume 201, p. 187–195.
- ITC, et al., 2011. *Principles of Remmote Sensing*. Den Haag, : CIP-Gegevens Koninklijke Bibliotheek.
- J. Li, Song, C. & L. Cao, 2011. Impacts of landscape structure on surface urban heat islands: a case study of Shanghai, China.. *Remote Sensing Environtment*, Volume 115, p. 3249–3263.
- Jackson, J., 1962. *Classical electrodynamics*. 3 ed. Wiley, New York,; American association of physics teachers.
- Jacob, F. et al., 2008. Modeling and Inversion in Thermal Infrared Remote Sensing over Vegetated Land Surfaces. S. Liang (ed.); *Advances in Land Remote Sensing*, p. 245–291.
- Jatmiko, R. H., 2016. *Penggunaan Citra Sluran Inframerah Termal untuk Studi Perubahan Liputan Lahan dan Suhu Sebagai Indikator Perubahan Iklim Perkotaan di Yogyakarta*, Yogyakarta: Universitas Gadjah Mada.

- Jiang, L., Zhang, J., Liu, X. & Li, F., 2016. Multi-fractal scaling comparison of the Air Temperature and the Surface Temperature over China. *Physica A: Statistical Mechanics and its Applications*, Volume 462, pp. 783-792.
- Jiménez-Muñoz, J. C. & Sobrino, J. A., 2007. Feasibility of Retrieving Land-Surface Temperature From ASTER TIR Bands Using Two-Channel Algorithms: A Case Study of Agricultural Areas. *IEEE GEOSCIENCE AND REMOTE SENSING LETTERS*, , Volume 4, pp. 60-64.
- Jun, L. et al., 2012. Quantitative evaluation of urban park cool island factors in mountain city. *J. Cent. South Univ.*, Volume 19, p. 1657–1662.
- Kaufman, Y., 1989. The atmospheric effect on remote sensing and its correction. In: G. Asrar, ed. *Theory and*. Wiley, New York: s.n., p. 336–428.
- Khorrarn, S., Koch, F. H., Wiele, C. F. v. d. & Nelson, S. A. C., 2012. *Remote Sensing*. New York, Heidelberg ; Dordrecht, London: Springer.
- Kuenzer, C. & Dech, S., 2013. Theoretical Background of Thermal Infrared Remote Sensing. In: *Thermal Infrared Remote Sensing : Sensor, Method, Application* . Dordrecht Heidelberg; New York London: Springer.
- Kumar, D. & Shekhar, S., 2015. Statistical analysis of land surface temperature–vegetation indexes Relationship through thermal remote sensing. *Ecotoxicology and Environmental Safety*, Volume 121, p. 39–44.
- Lakitan, B., 2002. *Dasar-dasar klimatologi*. Jakarta: Raja Grafindo Persada.
- Lauriola, P., 2016. Introduction. In: *Counteracting Urban Heat Island Effects in a Global Climate Change Scenario*. London: Springer, p. 1.
- Luo, D., Jin, H., Marchenko, S. S. & Romanowsky, V. E., 2018. Difference between near-surface air, land surface and ground surface temperatures and their influences on the frozen ground on the Qinghai-Tibet Plateau. *Geoderma*, Volume 312, pp. 74-85.
- Mallick, J., Rahman, A. & Singh, C. K., 2013. Modeling urban heat islands in heterogeneous land surface and its correlation with impervious surface area

- by using night-time ASTER satellite data in highly urbanizing city, Delhi-India. *Advances in Space Research* , Volume 52, p. 639–655.
- Mao, K. B., 2006. A multiple-band algorithm for separating land surface emissivity and temperature from ASTER imagery,. *IGARSS*, p. 1358–1361.
- Martins, T. A. et al., 2016. Impact of Urban Cool Island measures on outdoor climate and pedestrian comfort; Simulations of a new district of Toulouse. *Sustainable Cities and Society*, Volume 26, pp. 9-26.
- NASA, 2012. *ASTER Advanced Spaceborn Thermal Emission and Reflection Radiometer*. [Online]  
Available at: <https://asterweb.jpl.nasa.gov/data.asp>  
[Accessed 18 Desember 2017].
- NASA, 2014. *Terra*. [Online]  
Available at: <http://terra-image.com/aster/>  
[Accessed 11 10 2017].
- Nausheen, N., Seal, A., Khanna, P. & Halder, S., 2018. A FPGA Based Implementation of Sobel Edge Detection. *Microprocessor and Microsystems*, Volume 56, pp. 84-91.
- Nausheen, N., Seal, A. & Pritee Khanna, S. H., 2018. A FPGA based implementation of Sobel edge detection. *Microprocessors and Microsystems* , Volume 56, p. 84–91.
- Ndossi, M. I. & Avdan, a. U., 2016. Inversion of Land Surface Temperature (LST) Using Terra ASTER Data: A Comparison of Three Algorithms. *Remote Sensing*, Volume 8, p. 993.
- Ndossi, M. I. & Avdan, U., 2016. Inversion of Land Surface Temperature (LST) Using Terra ASTER Data: A Comparison of Three Algorithms. *remote sensing*, 8(12), pp. 993-212.
- Oke T.R., 1972. City size and the urban heat island. *Atmospheric Environment*, 7(8), p. 769–779.

- Oke, T., 1981. Canyon geometry and the nocturnal urban heat island comparison of scale model and field observations. *Journal of Climatology*, Volume 1, p. 237–254.
- Oliveira, S., Andrade, H. & Vaz, T., 2011. The cooling effect of green spaces as a contribution to the mitigation of urban heat: a case study in Lisbon.. *Build. Environment*, Volume 46, p. 2186–2194.
- Owen, T., T., C. & R., G., 1998. Remotely sensed surface parameters governing urban climate change. *Internal Journal of Remote Sensing*, Volume 19, pp. 1663-1681.
- P.Czajkowski, K. et al., 2005. Estimating environmental variables using thermal remote sensing. In: *Thermal Remote Sensing in Land Survaece Process*. Boca Raton London New York Washington, D.C.: CRC Press, pp. 11-32.
- Pinty, B. & Verstraete, M., 1991. GEMI: a non-linear index to monitor global vegetation from satellites. *Vegetation*, pp. 15-20.
- Prakash, A., 2000. *Theral Remote Sensing: Concepts, Issus and Aplications*. Amstrerdam: International Archives of Photogrammetry and Remote Sensing.
- Price, A., Jones, E. C. & Jefferson, F., 2015. Vertical Greenery Systems as a Strategy in Urban Heat Island Mitigation. *Water Air Soil Pollution*, p. 226: 247.
- Quan, Z., Xianfeng, Z. & Miao, J., 2011. Eco-environment variable estimation from remote sensed data and eco-environment assessment: models and system,. *Acta Botanica Sinica*, Volume 47, p. 1073–1080.
- Qua, Y., Meng, J., Wanc, H. & a, Y. L., 2016. Preliminary study on integrated wireless smart terminals for leaf area index measurement. *Computers and Electronics in Agriculture*, Volume 129, p. 56–65.
- Rasul, A., Balzter, H. & Smith, C., 2015. Spatial variation of the daytime Surface Urban Cool Island during the dry season in Erbil, Iraqi Kurdistan, from Landsat 8. *Urban Climate*, Volume 14, p. 176–186.

- Ren, H., Zhou, G. & Zhang, F., 2018. Using negative soil adjustment factor in soil-adjusted vegetation index (SAVI) for aboveground living biomass estimation in arid grasslands. *Remote Sensing of Environment*, Volume 209, pp. 439-445.
- Richards, J. A., 2013. *Remote Sensing Digital Image Analysis*. 5 ed. Heidelberg, New York; Dordrecht, London: Springer.
- Roth, M., 2002. *Effects of cities on local climates*. s.l., s.n.
- Sabins, F. J., 1996. *Remote Sensing: Principles and Interpretation*. New York: W.H. Freeman.
- Shati, F., Prakash, S., Norouzi, H. & Blake, R., 2018. Assessment of differences between near-surface air and soil temperatures for reliable detection of high-latitude freeze and thaw states. *Cold Regions Science and Technology*, Volume 145, pp. 86-92.
- Shimoda, H., 2013. Remote Sensing Data Applications. In: J. Pelton, S. Madry & S. Camacho-Lara, eds. *Handbook of Satellite Applications*. New York: Springer Science; Business Media, pp. 865-933.
- Sobrinoa, J. A., Jimé'nez-Mun'oz, J. C. & Paolini, L., 2004. Land surface temperature retrieval from LANDSAT TM 5. *Remote Sensing of Environment*, Volume 90, p. 434 – 440.
- Sobrino, J. et al., 2008. Land surface emissivity retrieval from different VNIR and TIR sensors. *IEEE Trans. Geosci. Remote Sens*, Volume 46, p. 316–327.
- Song, W. et al., 2017. Estimating fractional vegetation cover and the vegetation index of bare soil and highly dense vegetation with a physically based method. *International Journal of Applied Earth Observation and Geoinformation*, Volume 58, pp. 168-176.
- Tan, H., 2017. *ASTER*. [Online] Available at: <https://asterweb.jpl.nasa.gov/> [Accessed 11 10 2017].

- Tonooka, H., 2005. Accurate Atmospheric Correction of ASTER Thermal Infrared Imagery Using the WVS Method. *IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING*, , 43(12), pp. 2778-2792.
- Tsuchida, S. & Sakuma, H., 2014. *Equations for ASTER radiometric calibration ver.0.20*. [Online] Available at: <https://staff.aist.go.jp/s.tsuchida/aster/cal/info/equation/index.html> [Accessed 18 Desember 2017].
- Wang, F. & Huang, J., 2010. Development of a Vegetation Index for Estimation of Leaf Area Index Based on Simulation Modeling. *Journal of Plant Nutrition*, Volume 33, p. 328–338.
- Wang, F. et al., 2015. An Efficient Approach for Pixel Decomposition to Increase the Spatial Resolution of Land Surface Temperature Images from MODIS Thermal Infrared Band Data. *Sensors*, Volume 15, pp. 304-330.
- Wang, S. & He, L., 2014. Practical split-window algorithm for retrieving land surface temperature over agricultural areas from ASTER data. *Applied Remote Sensing*, 8(1).
- Wicaksono, P., 2011. *Preliminary Work of Mangrove Ecosystem Carbon Stock Mapping in Small Island Using Remote Sensing: Above and Below Ground Carbon Stock Mapping on Medium Resolution Satellite Image*, s.l.: SPIE Digital Library.
- Xue, J. & Su, B., 2017. Significant Remote Sensing Vegetation Indices: A Review of Developments and Applications. *Journal of Sensors*, p. 17 pages.
- YoungSon, J., KevinJ.Lane, Jong-TaeLee & MichelleL.Bell, 2016. Urban vegetation and heat-related mortality in Seoul, Korea. *Environmental Research*, Volume 151, p. 728–733 .
- Zaid, M. A., 2015. *Correlation and Regression Analysis*. 1 ed. Ankara, Turkey: The Statistical, Economic and Social Research and Training Centre for Islamic Countries (SESRIC).

Zhou, Z., Plauborg, F., G.Thomsen, A. & Andersen, M. N., 2017. A RVI/LAI-reference curve to detect N stress and guide N fertigation using combined information from spectral reflectance and leaf area measurements in potato. *European Journal of Agronomy*, Volume 87, pp. 1-7.