

## DAFTAR PUSTAKA

- Adhiatma, R., Widiatmaka & Lubis, I., 2020. Perubahan dan prediksi penggunaan/penutup lahan di Kabupaten Lampung Selatan. *Journal of Natural Resources and Environmental Management*, 10(<https://dx.doi.org/10.29244/jpsl.10.2.234-246>), pp. 234-246.
- Ahmadisharaf, E. et al., 2020. Projecting Land Use Change Impacts on Nutrients, Sediment, and Runoff in Multiple Spatial Scale: Business as Usual vs. Stakeholder-informed Scenarios. *Journal of Cleared Production*, p. 257.
- Ahmadzadeh, H., Mansouri, B., Fathian, F. & Vaheddoost, B., 2022. Assessment of Water Demand Reliability Using SWAT and RIBASIM Models With Respect to Climate Change and Operational Water Projects. *Agricultural Water Management*, 261(<https://doi.org/10.1016/j.agwat.2021.107377>).
- Anand, J., Gosain, A. & Khosa, R., 2018. Prediction of Land Use Changes Based on Land Change Modeler and Attribution of Changes in the Water Balance of Ganga Basin to Land Uses Change Using The SWAT Model. *Science Of The Total Environment*, Volume 644, pp. 508-519.
- Anon., n.d. s.l.:s.n.
- Arifin, M., 2010. *Modul Klimatologi*. Jawa Timur: Fakultas Pertanian Universitas Brawijaya.
- Ariyani, D., 2017. Variabilitas Curah Hujan dan Suhu Udara Serta Pengaruhnya terhadap Neraca Air Irigasi di Daerah Aliran Sungai Ciliwung. *Jurnal Irigasi*, Volume 12.
- Ariyani, D. & Kayun, K. N., 2019. Pemodelan Neraca Air di Embung Oeltua Untuk Memenuhi Kebutuhan Air Domestik di Desa Oeltua. *CESD (Construction Engineering and Sustainable Development)*, Volume 02.
- Arsanjani, J. J., Helbich, M., Kainz, W. & Boloorani, A. D., 2013. Integration of Logistic Regression, Markov Chain, and Cellular Automata Models to Simulate Urban Expansion. *International Journal of Applied Earth Observation and Geoinformation*, Volume 21, pp. 265-275.
- Asdak, C., 2002. *Hidrologi dan Pengelolaan Daerah Aliran Sungai*. Kedua ed. Yogyakarta: UGM Press.
- Batubara, M. R., 2015. Kajian hidrologi dan penggunaan lahan sebagai indikator kinerja DAS pada DAS Garang.. *Jurnal Teknik Pengairan*, Volume 6, pp. 216-228.
- Bhagat, V., 2014. Agriculture Water Balance of Micro-Watershed Using GIS Techniques. *Journal of Earth Science Research*, Volume 2, pp. 1-22.

- Bielecka, E., 2020. GIS Spatial Analysis Modeling for Land Use Change. A Bibliometric Analysis of the Intellectual Base and Trends. *MDPI Geosciences*, Volume 10.
- BIG, 2019. *Pemetaan Integrasi Neraca Sumberdaya Spasial WS Cimanuk Cisanggarung*. Bogor: BIG.
- Bongaling, C. G. K., Faustino-Aslava, D. V. & Lansigan, F. P., 2018. Modeling land use change impacts on hydrology and the use of landscape metrics as tools for watershed management: The case of an ungauged catchment in the Philippines. *Land Use Policy*, 72(<https://doi.org/10.1016/j.landusepol.2017.12.042>), pp. 116-128.
- Britannica, T. E. o. E., n.d. [www.britannica.com](http://www.britannica.com). [Online] Available at: <https://www.britannica.com/science/water-cycle> [Accessed 29 July 2021].
- Brouwer, C. & Heibloem, M., 1986. *Irrigation Water Requirement*. Rome: FAO.
- Cao, Y. et al., 2020. Urban Spatial Growth Modelling Using Logistic Regression and Cellular Automata: A Case Study of Hangzhou. *Ecological Indicators*, Volume 113.
- Carvalho, A. P. P., Lorandi, R. & Collares, E. G., 2021. Potential Water Demand From The Agriculture Sector in Hydrographic Sub-Basins in The Southeast of The State of Sao Paulo Brazil. *Agriculture, Ecosystem, and Environment*, Volume 319.
- Casagrande, E., Recanatì, F., Rulli, M. C. & Bevacqua, D., 2021. Water Balance Partitioning for Ecosystem Service Assessment. A Case Study in The Amazon. *Ecological Indicators*, 121(<https://doi.org/10.1016/j.ecolind.2020.107155>).
- Chang, C., Z. W. & H.J, C., 2005. Synoptic disturbance over the equatorial South China Sea and western maritime continent during boreal winter. *Mon Wea*, Volume 133, pp. 489-503.
- Danoedoro, P., 2015. *Pengaruh Jumlah dan Metode Pengambilan Titik Sampel Penguji Terhadap Tingkat Akurasi Klasifikasi Citra Digital Penginderaan Jauh*. Yogyakarta, Conference: Symposium Nasional Sains Geoinformasi ke-4. Universitas Gadjah Mada.
- Deng, X. et al., 2015. Impact of Urbanization on Cultivated Land Changes in China. *Land Use Policy*, Volume 45, pp. 1-7.
- Dewi, H. N., 2015. Neraca Air Secara Hidrometeorologis di Sub DAS Kodl DAS Bogowonto. Issue Universitas Gadjah Mada.

Dey, N. N., Rakib, A. A., Al Kafy, A. & Raikwar, V., 2021. Geospatial modelling of change in land use/land cover dynamics using Multi-layer perception Markov chain model in Rajshahi City, banglades. *Environmental Challenges*, 4(<https://doi.org/10.1016/j.envc.2021.100148>).

Dolschak, K., Gartner, K. & Berger, T. W., 2019. The Impact of Rising Temperatures on Water Balance and phenology of European Beech (*Fagus sylvatica* L.) Stands. *Modelling Earth Systems and Environment*, 5(<https://doi.org/10.1007/s40808019-00602-1>), pp. 1347-1363.

Dzulfikar , R. A. & Sofyan, A., 2018. Perhitungan Neraca Air Tawar di Pulau Pramuka, Jakarta. *Jurnal Teknik Lingkungan*, Volume 24, pp. 61-80.

Eastman, J., 2006. *Idrisi 15: The Andres Edition*. Worcester, MA: Clark University.

El-Hallaq, M. & Habboub, M., 2015. Using Cellular Automata-Markov Analysis and Multi Criteria Evaluation for Predicting the Shape of The Dead Sea. *Advances in Remote Sensing*, Volume 4, pp. 83-95.

Facon, T., 2000. Water Management In Rice In Asia: Some Issues For The Future. *Bridging the rice yield gap in the Asia-Pacific Region*, Issue FAO.

Faski, G. I. S. L., 2021. *Analisis Neraca Air DAS Bengkulu Dalam Kaitannya Dengan Karakteristik Fisik DAS*. s.l.:Thesis.

Feng, Y. & Tong, X., 2018. Dynamic Land Use Change Simulation Using Cellular Automata With Spatially Nonstationary Transition Rules. *GIScience and Remote Sensing*.

Fibriana , R., Ginting, Y. S., Ferdiansyah, E. & Mubarak, S., 2018. Analisis Besar atau Laju Evapotranspirasi Pada Daerah Terbuka. *Agrotoma* , Volume 2, pp. 130-137.

Gaveau, D. L. A., 2009. The future of Forest and orangutans (*Pongo abelii*) in Sumatra: Predicting impacts of oil palm plantations, road construction, and mechanisms for reducing carbon emissions from deforestation.. Issue *Environmental Research Letters* 4.

Gomes, E., Inacio, M., Bogdzevic, K. & Kalinauskas, M., 2021. Future Scenarios Impact on Land-use Change and Habitat Quality in Lithuania. *Environment Research*, 197(<https://doi.org/10.1016/j.envres.2021.111101>).

Hadisusanto, N., 2011. *Aplikasi Hidrologi*. Malang: Jogja Mediautama.

Halder, A., Ghosh, A. & Ghosh, S., 2011. Supervised and Unsupervised Landuse Map Generation From Remotely Sensed Images Using Ant Based Systems. *Applied Soft Computing*, Volume 11, pp. 5770-5781.

- Hansen, V., Israelsen, O. & Stringham, G., 1986. *Dasar-Dasar dan Praktek Irigasi*. Jakarta: Erlangga.
- Hardke, J., 2018. *Rice: Production Handbook*. Arkansas: University of Arkansas.
- Hartanto, P., 2017. Perhitungan Neraca Air DAS Cidanau Menggunakan Metode Thornthwaite. *Riset Geologi dan Pertambangan*, Volume 27, pp. 213-225.
- Indarto, 2010. *Hidrologi-Dasar Teori dan Contoh Aplikasi Model Hidrologi*. Yogyakarta: Bumi Aksara.
- Indriyanto, I. W., Sudarsono, B. & Sasmito, B., 2019. Analisis Kesesuaian Perubahan Penggunaan Lahan Terhadap Rencana Tata Ruang Wilayah (RTRW) di Sekitar Danau Rawa Pening Kabupaten Semarang Tahun 2013 dan 2018.. *Jurnal Geodesi Undip*, Volume 8, pp. 133-142.
- Jacob, N., Krishnan, R., Raju, P. & Saibaba, J., 2008. Spatial and Dynamic Modelling Techniques for Land Use Change Dynamic Study. *The International Archives of The Photogrammetry, Remote Sensing, and Spatial Information Sciences*, Volume 37, pp. 37-44.
- Jacob, N., R. K., PVSP, P. R. & J, S., 2008. Spatial and Dynamic Modelling Techniques for Land Use Change Dynamic Study. *The International Archives of The Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume XXXVII, pp. 37-44.
- Jamal, J. A., 2012. Dynamic Land Use/Cover Change Modelling. *Theses*.
- Jamaludin, A. N., 2015. *Sosiologi Perkotaan: Memahami Masyarakat Kota dan Problematikanya*. Jakarta: Pustaka Setia.
- Jazaouli, A. E. et al., 2019. Remote Sensing and GIS Technique for Prediction of Land use Land cover Change Effect on Soil Erosion in High Basin of The Oum Er Rbia River (Morocco). *Remote Sensing Applications: Society and Environtment*, Volume 13, pp. 361-374.
- Jensen, J., 2000. *Remote Sensing of The Environtment: An Earth Resource Perspective*. London: Prentice Hall Inc.
- Jhonnerie, R. et al., 2014. Deteksi Perubahan Tutupan Mangrove Menggunakan Citra Landsat Berdasarkan Klasifikasi Hibrida Di Sungai Kembung, Pulau Bengkalis, Provinsi Riau.. *Jurnal Ilmu dan Teknologi Kelautan Tropis*, Volume 6, pp. 491-506.
- Kartodihardjo, H., 2008. *Dibalik kerusakan hutan dan bencana alam: Masalah transformasi kebijakan hutan*. Tangerang: Wana Aksara.
- Koestoer, R. H., 2001. *Dimensi Keruangan Kota: Teori dan Kasus*. Jakarta: UI Press.

- Kohl, M., Magnussen, S. & Marchetti, M., 2006. Sampling Methods, Remote Sensing and GIS Multiresource Forest Inventory. *Springer-Verlag*, Issue <https://doi.org/10.1007/978-3-540-32572-7>.
- Kosasih, D., Saleh, M. B. & Prasetyo, L. B., 2019. Interpretasi Visual dan Digital Untuk Klasifikasi Tutupan Lahan di Kabupaten Kuningan, Jawa Barat. *Jurnal Ilmu Pertanian Indonesia (JIPI)*, 24(<https://journal.ipb.ac.id/index.php/JIPI>), pp. 101-108.
- Kubangun, S. H., 2015. Model Spasial Bahaya Lahan Kritis di Kabupaten Bogor, Cianjur, dan Sukabumi.. *Thesis*, Issue Institut Pertanian Bogor (IPB).
- Kumar, P., Dobriyal, M., Kale, A. & Pandey, A., 2021. Temporal Dynamic Change of Land use/ Land cover in Jhansi District of Uttar Pradesh Over Past 20 Years Using Landsat TM, ETM+ and OLI Sensors. *Remote Sensing Applications: Society and Environment*, Volume 23(<https://doi.org/10.1016/j.rsase.2021.100579>).
- Kundu, S., Khare, D. & Mondal, A., 2017. Past, Present, and Future Land Use Changes and Their Impact on Water Balance. *Journal of Environment Management*, Volume 197, pp. 582-596.
- Kvamme, K. L., Ernenwein, E. G. & Menzer, J. G., 2019. *Innovation in Near-Surface Geophysics*. s.l.:Elsevier Inc.
- Lashari, Kusumawardani, R. & Prakasa, F., 2017. Analisis Distribusi Curah Hujan di Area Merapi Menggunakan Metode Aritmatika dan Poligon. *Jurnal Teknis Sipil dan Perencanaan*, Volume 19, pp. 39-48.
- Liilesand, T. & Ralf, W., 1994. *Remote Sensing and Image Interpretation*. Canada: John Wiley & Son, Inc..
- Lillesand, T., Kiefer, R. W. & Chipman, J., 2015. *Remote Sensing and Image Interpretation*. s.l.:John Wiley & Sons.
- Liu, Y., 1965. *Modelling Urban Development with Geographical Information System and Cellular Automata*. USA: CRS Press.
- Lourenco, P. et al., 2021. Assesing The Performance of Different OBIA Software Approach for Mapping Invasive Alien Plants Along Roads With Remote Sensing Data. *International Journal of Applied Earth Observations and Geoinformation*, 95(<https://doi.org/10.1016/j.jag.2020.102263>).
- Mahiny, A. & Turner, B., 2003. Modelling Past Vegetation Change Through Remote Sensing and GIS: A Comparison of Neural Networks and Logistic Regression Method. *Proceedings of The 7th International Conference on GeoComputation.*, Issue University of Southampton United Kingdom.

- Malingreau, J. P., 1977. Apropose land cover/ land use classification and its use with remote sensing data in Indonesia. *The Indonesian Journal of Geography*, 7(Fakultas Geografi UGM).
- Mammoliti, E. et al., 2021. Waterbalance a Web App for Thornthwaite-Mather Water Balance Computation: Comparison of Application in Two European Watersheds. *MDPI*, Issue <https://doi.org/10.3390/hydrology8010034>.
- Mawardi, I., 2010. Kerusakan Daerah Aliran Sungai dan Penurunan Daya Dukung Sumberdaya Air di Pulau Jawa Serta Upaya Penanganannya. *J. Hidrosfir Indonesia Vol.5*, Issue ISSN 1907-1043 , pp. Hal. 1-11.
- Mohamed, A. & Worku, H., 2020. Simulating Urban Land Use and Cover Dynamics Using Cellular Automata and Markov Chain Approach in Addis Ababa and The Surrounding. *Urban Climate*, Volume 31.
- Mujtahiddin, I. M., 2014. Analisis Spasial Indeks kekeringan Kabupaten Indramayu. *Jurnal Meteorologi dan Geofisika*, 15(2), pp. 99-107.
- Narulita, I., 2017. Pendugaan Neraca Air Spasial Untuk Evaluasi Ketersediaan Sumberdaya Air (Studi Kasus: Daerah Aliran Sungai Cerucuk, Pulau Bitung). *Journal Teknologi Lingkungan*, Volume 18, pp. 120-129.
- Ningkeula, E. S., 2015. Analisis Karakteristik Meteorologi dan Morfologi DAS Wai Samal Kecamatan Seram Utara Timur Kobi Kabupaten Maluku Tengah. *Jurnal Ilmiah Agribisnis dan Perikanan (Agrikan UMMU-Ternate)*, pp. 81-91.
- Nugroho, A. R., Tamagawa, I., Riandraswari, A. & Febrianti, T., 2019. Thornthwaite-Mather Water Balance Analysis in Tambakbayan Watershed. *MATEC Web of Conferences*, pp. 1-10.
- Nurmala, T. et al., 2012. *Pengantar Ilmu Pertanian*. Yogyakarta: Graha Ilmu.
- Paramitha, B. A. P., 2011. Model CA Untuk Prediksi Perkembangan Wilayah Menggunakan Citra Penginderaan Jauh Resolusi Menengah (Studi Kasus Wilayah Kedungsepur). *Thesis*.
- Pascual, V. J. & Wang, Y. M., 2016. Impact of Water Management on Rice Varieties, Yield, and Water Productivity under the System of Rice Intensification in Southern Taiwan. *MDPI*, Issue 2016, pp. 1 - 15.
- Perdana, D. A., Zakaria, A. & Sumiharni, 2015. Studi Pemodelan Curah Huan Sintetik Dari Beberapa Stasiun hujan di Wilayah Pringsewu. *JRSDD*, Volume 3, pp. 45-56.
- Phiri, D., Morgenroth, J., Xu, C. & Hermosilla, T., 2018. Effects of Pre-processing Methods on Landsat OLI-8 Land cover Classification Using OBIA and



Random Forests Classifier. *Int J Appl Earth Obs Geoinformation*, Volume 73, pp. 170-178.

PP No 37 Tahun 2012, n.d. PP No 37 Tahun 2012 Tentang Pengelolaan DAS.

Priyonugroho, A., 2014. Analisis Kebutuhan Air Irigasi (Studi Kasus Pada Daerah Irigasi Sungai Air Keban Daerah Kabupaten Empat Lawang). *Jurnal Teknik Sipil dan Lingkungan*, Volume 2.

Priyonugroho, A., 2014. Analisis Kebutuhan Air Irigasi (Studi Kasus Pada Daerah Irigasi Sungai Air Keban Daerah Kabupaten Empat Lawang).. *Jurnal Teknik Sipil dan Lingkungan*, Volume 2, pp. 457- 470.

Purnama, I. L. S. et al., 2012. Analisis Neraca Air di DAS Kupang dan Sengkarang. *MPPDAS Fakultas Geografi UGM*, Volume 1.

Purwanto & Ikhsan, J., 2006. Analisis Kebutuhan Air Irigasi Pada Daerah Irigasi Bendung Mrican. *Jurnal Ilmiah Semesta Teknika*, Volume 9, pp. 83-93.

Redo, D. J. & Millington, A. C., 2011. A Hybrid Approach to Mapping Land-use Modification and Land-cover Transition From MODIS time-series data: A Case Study From The Bolivian Seasonal Tropics. *Remote Sensing of Environment*, 115(doi:10.1016/j.rse.2010.09.007), pp. 353-372.

Ridwan, F., Ardiansyah, M. & Gandasasmita, K., 2017. Pemodelan perubahan penutup lahan/ penggunaan lahandengan pendekatan artificial neural network dab logistik regression (Sudi kasus: DAS Citarum, Jawa Barat). *Buletin Tanah dan Lahan*, pp. 30-36.

Rockstorm, J., 2010. Managing Water in Rainfed Agriculture - The need for paradigm shift. *Agricultural Water Management*, Volume 97, pp. 543-550.

Roodposhti, M. S., Hwitt, R. J. & Bryan, B. A., 2020. Toward Automatic Calibration of Neighbourhood Influence in Cellular Automata Land-use Models.. *Comput. Environ. Urban Syst*, Issue <https://doi.org/10.1016/j.compenvurbsys.2019.101416>, p. 79.

Rouw, A., Hadi, T. W., H. K, B. T. & Hadi, S., 2014. Analisis variasi geografis pola hujan di Wilayah Papua. *Jurnal Tanah dan Iklim*, Volume 38, pp. 25-34.

Sabilau, O. G., Taryana, D. & Masitoh, F., 2021. Analisis Kebutuhan Air Irigasi Lahan Pertanian Desa Pajaran Kecamatan Poncokusumo Menggunakan Cropwat 8.0. *Jurnal Integrasi dan Harmoni Inovatif Ilmu-ilmu Sosial*, Volume 9, pp. 988-1003.

Sandhyavitri, A., Sutikno, S. & Iqbal, M., 2015. Analisis Pengaruh Perubahan Tata Guna Lahan Terhadap Ketersediaan Air di DAS Siak, Provinsi Riau. *Jurnal Teknis Sipil Vol 13*, pp. 146-157.

- Saniputra, F. S. & Kamal, M., 2020. Pemetaan Perubahan Penutup Lahan Menggunakan Citra Satelit Untuk Mengetahui Hasil Rehabilitasi Hutan dan Lahan Kabupaten Wonosobo. Issue <http://lib.geo.ugm.ac.id>.
- Sari, I. K., Limantara, L. M. & Priyantoro, D., 2011. Analisis Ketersediaan dan Kebutuhan Air Pada DAS Sampean. *Jurnal Teknik Pengairan*, Volume 2.
- Sarminingsih, A., 2007. EVALUASI KEKRITISAN LAHAN DAERAH ALIRAN SUNGAI (DAS) DAN MENDESAKNYA LANGKAH-LANGKAH KONSERVASI AIR. *Jurnal Presipitasi*, 2(2007), pp. 8 - 14.
- Sevani, N., Marimin & Sukoco, H., 2009. *Sistem Pakar Penentuan Kesesuaian Lahan Berdasarkan Faktor Penghambat Terbesar (Maximum Limitation Factor) untuk Tanaman Pangan*. Bogor: Jurusan Teknik Informatika, Fakultas Teknologi Informasi, Universitas Krida Wacana.
- Seyhan, E., 1990. *Dasar Dasar Hidrologi*. Yogyakarta: UGM Press.
- Seyhan, E., 1990. *Dasar-Dasar Hidrologi*. Yogyakarta: UGM Press.
- SNI 6728.1:2015, n.d. s.l.: s.n.
- Soghara, A., Sloan, S., Nourani, V. & Keshtkar, H., 2021. The utility of a hybrid GEOMOD-Markov Chain model of land-use change in the context of highly water-demanding agriculture in a semi-arid region. *Ecological Informatics*, 64(<https://doi.org/10.1016/j.ecoinf.2021.101332>).
- Sosrodarsono, S. & Takeda, K., 1983. *Hidrologi untuk Pengairan*. Jakarta: Pradnya Paramita.
- Steenhuis, T. S. & Molen, W. H. V. D., 1986. The Thornthwaite-Mather Procedure As A Simple Engineering Method to Predict Recharge. *Journal of Hydrology*, Volume 84, pp. 221-229.
- Subroto, G., 2016. Pemodelan Spasial Alokasi Peruntukan Lahan Pertanian Pangan Berkelanjutan di Kabupaten Jombang Jawa Timur. *Institut Teknologi Sepuluh Nopember Suarabaya (Undergraduate Thesis)*.
- Suhardjono, 1994. *Kebutuhan Air Tanaman*. Malang: Institut Teknologi Malang.
- Surono, S., 2001. Perkembangan Produksi dan Kebutuhan Import Beras Serta Kebijakan Pemerintah Untuk Melindungi Petani. *Bunga Rampai Ekonomi Beras Tim Pengkaji Beras Nasional*, Issue LPEM-UI, pp. Hal. 41-58.
- Susilo, B., 2011. Pemodelan Spasial Probabilistik Integrasi Markov Chain dan Cellular Automata Untuk Kajian Perubahan Penggunaan Lahan Skala Regional di Provinsi Daerah Istimewa Yogyakarta. *Gea*, Volume 11, pp. 163-178.



Susilo, B., 2017. Multiscape Spatial Assessment of Determinant Factors of Landuse Change: Study at Urban Area Of Yogyakarta. *IOP Conference Series: Earth and Environmental Sciences*.

Sustayo, M., 2016. Pendekatan Spasial Ekologis dan Skala Multidimensi Dalam Pengelolaan DAS Berkelanjutan. *Disertasi*, Issue Universitas Gadjah Mada.

Suwarli, S. S., Widiatmaka, P. E. & Kholil, 2012. Dinamika Perubahan Penggunaan Lahan dan Strategi Ruang Terbuka Hijau (RTH) Berdasarkan Alokasi Anggaran Lingkungan Daerah (Studi Kasus Kota Bekasi). *Forum Pascasarjana*, pp. 37-52.

Syafitri, R. A. W. D., 2017. *Pemodelan Penentuan Lahan Pengganti LP2B (Lahan Pertanian Pangan Berkelanjutan) Berdasarkan Proyeksi Perubahan Lahan Pertanian di Kabupaten Karanganyar*. Surabaya: Institut Teknologi Sepuluh Nopember.

Syahidan, T. T., 2016. Analisis Spasial Neraca Air Menggunakan Metode Hidrologi SWAT dan Thornthwaite di Sub DAS Betara Kabupaten Tanjung Jabung Barat, Jambi. *Institut Pertanian Bogor (IPB)*.

Syahputra, Y. A., Saleh, M. B. & Puspaningsih, N., 2021. Prediksi Perybahan Tutupan Lahan Dengan Model Marcov Chain dan ANN-Marcob di DAS Krueng Aceh. *JPPDAS*.

Tatas, et al., 2015. Study on Water Balance in Poteran - A Small Island in East Java, Indonesia. *Procedia Engineering*, 125(<https://doi.org/10.1016/j.proeng.2015.11.034>), pp. 236-242.

Thakur, A. K., Mohanty, R. K., Patil, D. U. & Kumar, A., 2014. Impact of water management on yield and water productivity with system of rice intensification (SRI) and conventional transplanting system in rice. *Paddy Water Environment*, 12(2014), pp. 413-424.

Thanutgit, T., Piyathamrongchai, K. & Choosumrong, S., 2016. Modelling Land Use Change Using Cellular Automata Model: A Case Study of Wangtong City, Phitsanulok Province, Thailand. *Proceedings International Conference on GeoInformatics for Spatial Infrastructure Development in Earth and Allied Science (GIS-IDEAS)*, Volume 2, p. 278.

Thornthwaite, C. W. & Mather, J. R., 1957. *Instructions and Tables for Computing Potential Evapotranspiration an Water Balance*. 10 ed. s.l.:Publications in Climatology.

Triatmojo, B., 2008. *Hidrologi Terapan*. Yogyakarta: Beta Offset.

Utomo, M., 1992. *Pembangunan dan Pengendalian Alih Fungsi Lahan*. Bandar Lampung: Univ Lampung.

Veldkamp, A. & Verburg, P., 2004. Modelling Landuse Change and Environmental Impact. *Journal of Environmental Management*, 73(1-2), pp. 1-3.

Wang, D. et al., 2015. *Application of SCS-CN Model in Runoff Estimation*. s.l., International Symposium on Material, Energy, and Environment Engineering (ISM3E). Atlantis Press.

Wang, Z., Yang, J., Deng, X. & Lan, X., 2015. Optimal water resources allocation under the constraint of landuse in the heihe river basin of china. *Sustainability*, pp. 1558-1575.

Waske, B. & Braun, M., 2009. Classifier Ensembles for Land Cover Mapping Using Multitemporal SAR Imagery. *ISPRS Journal of Photogrametry and Remote Sensing*, 64(doi:10.1016/j.isprsjprs.2009.01.003), pp. 450-457.

White, R., Shahumyan, H. & Uljee, I., 2011. Activity Based Variable rid Cellular Automata for Urban and Regional Modelling. *Advance Geosimulation Models*, pp. 14-29.

Wijaya, M. S. & Susilo, B., 2013. Integrasi Model Spasial Cellular Automata dan Regresi Logistik Biner Untuk Pemodelan Dinamika Perkembangan Lahan Terbangun. *Jurnal Bumi Indonesia*.

Wijayanto, A., Harisuseno, D. & Soetopo, W., 2019. Analisis Perbandingan Metode NRECA dan Thornthwaite-Mather Dalam Transformasi Hujan Menjad Debit Pada Sub DAS Konto Hulu Kabupaten Malang. *Jurnal Mahasiswa Jurusan Teknik Pengairan*, Volume 3, pp. 1-8.

Wilk, J. & Hughes, D. A., 2002. Simulating the Impacts of Land-use and Climate Change on Water Resource Availability for A Large South Indian Catchment. *Hydrol Sci Journal*, Volume 47, pp. 19-30.

Wirasembada, Y. C., Setiawan, B. I. & Saptomo, S. K., 2017. Penerapan Zero Runoff System (ZROS) dan Efektivitas Penurunan Limpasan Permukaan pada Lahan Miring di DAS Cidanau, Banten. *Media Komunikasi Teknis Sipil*, Volume 23, pp. 102-112.

Xu, X., Du, Z. & Zhang, H., 2016. Integrating the system dynamic and cellular automata models to predict land use and land cover change. *International Journal of Applied Earth Observation and Geoinformation*, 52(<https://doi.org/10.1016/j.jag.2016.07.022>), pp. 568-579.