

## DAFTAR PUSTAKA

- Aldi, P., & Zaky, H. (2024). Prediksi Spasial Perkembangan Lahan Terbangun Di Kota Magelang Tahun 2031 Menggunakan Algoritma CA-Markov - UMS ETD-db. *Ums.ac.id*. <https://eprints.ums.ac.id/127689/1/NASKAH%20PUBLIKASI.pdf>
- Altman, D.G. (1990). *Practical Statistics for Medical Research (1st ed.)*. Chapman and Hall/CRC. <https://doi.org/10.1201/9780429258589>
- Ardiyanti, F. (2022). Pemodelan Spasial Perkembangan Lahan Terbangun Kawasan Perkotaan Boyolali Menggunakan Model Cellular Automata dan Regresi Logistik Biner.
- Asra, R., Mappiasse, M. F., & Nurnawati, A. A. (2020). Penerapan Model CA-Markov Untuk Prediksi Perubahan Penggunaan Lahan di Sub-DAS Bila Tahun 2036. *Agrovital*, 5(1), 1–1. <https://doi.org/10.35329/agrovital.v5i1.630>
- Awal, E. E., Sitanggang, I. S., & Syaufina, L. (2023). Model Prediksi Perubahan Tutupan Lahan Pada Area Kebakaran Lahan Gambut Menggunakan Model Cellular Automata Markov. *Jurnal Informatika dan Teknologi Informasi*, 1(3), 142-153. <https://doi.org/10.56854/jt.v1i3.141>
- Ayu, S., Sawitri Subiyanto, & Firdaus, H. S. (2021). Analisis Prediksi Perubahan Penggunaan Lahan dengan Pendekatan Artificial Neural Network dan Regresi Logistik di Kota Balikpapan. *Jurnal Geodesi Undip*, 10(2), 88–97. <https://doi.org/10.14710/jgundip.2021.30637>
- Badan Pusat Statistik (BPS) Kota Pekanbaru. (2022). *Kota Pekanbaru Dalam Angka 2022* (BPS Kota Pekanbaru (ed.)). BPS Kota Pekanbaru. <https://pekanbarukota.bps.go.id/>
- Bartuska, T and G. Young, 1994. “The Built Environment Definition and Scope” in *The Built Environment: A Creative Inquiry into Design and Planning*. Crisp Publications, Inc.
- Benenson, I., & Torrens, P. (2004). *Geosimulation: Automata-based modeling of urban phenomena*. John Wiley & Sons.
- Buraerah, M. F., Rasyidi, E. S., & Sandi, R. (2020). Pemetaan Perubahan Penggunaan Lahan Di Wilayah Kabupaten Takalar Tahun 1999-2019 Menggunakan Sistem Informasi Geografis. *Jurnal Ilmiah Ecosystem*, 20(1).
- Chaturvedi, V., & Walter. (2021). Machine Learning Algorithms for Urban Land Use Planning: A Review. *Urban Science*, 5, 3. <https://doi.org/10.3390/urbansci5030068>
- Chen, F., & Liu, C. (2012). Estimation of The Spatial Rainfall Distribution Using Inverse Distance Weighting (IDW) in The Middle of Taiwan. *Paddy and Water Environment*, 10(3), 209–222. <https://doi.org/10.1007/s1033301203191>
- Cheng, B., & Titterington, D. (1994). Titterington, D.M.: Neural networks: A review from a statistical perspective. *Statistical science* 9(1), 2-54. *Statistical Sci.*, 9. <https://doi.org/10.1214/ss/1177010638>
- Cresson, R. (2020). *Deep Learning for Remote Sensing Images with Open Source Software*. CRC Press. <https://doi.org/10.1201/9781003020851>

- Darmawan, M. G., & Fardani, I. (2022). Prediksi Deforestasi Hutan Menggunakan Metode Cellular Automata di Kabupaten Bogor. In *Bandung Conference Series: Urban & Regional Planning* (Vol. 2, No. 1, pp. 61-70).
- De Smith, M., Goodchild, M., & Longley, P. (2018). *Geospatial Analysis: A Comprehensive Guide to Principles Techniques and Software Tools* (6<sup>th</sup> Edition). <https://www.spatialanalysisonline.com/extractv6.pdf>
- Ebrahimipour, A., Saadat, M., & Farshchin, A. (2016). Prediction of Urban Growth through Cellular Automata-Markov Chain. *Bulletin de La Société Royale Des Sciences de Liège*, 824–839. <https://doi.org/10.25518/0037-9565.5677>
- ESRI. (2023). *Environmental Systems Research Institute* (ESRI). <https://www.esri.com/>
- Fariz, T. R., Nurhidayati, E., Damayanti, H., & Safitri, E. (2020). Komparasi Model Cellular Automata dalam Memprediksi Perubahan Lahan Sawah di Kabupaten Purworejo. *Jukung Jurnal Teknik Lingkungan*, 6(2), 157–167.
- Fuente, A., Meruane, V., & Meruane, C. (2019). Hydrological Early Warning System Based On A Deep Learning Runoff Model Coupled With A Meteorological Forecast. *Water*, 11. <https://doi.org/10.3390/w11091808>
- Jebur, A. K. (2021). Uses and Applications of Geographic Information Systems. *Saudi J. Civ. Eng*, 5(2), 18-25. <http://dx.doi.org/10.36348/sjce.2021.v05i02.001>
- Kamaraj, M., & Rangarajan, S. (2021). Predicting the Future Land Use and Land Cover Changes for Bhavani Basin, Tamil Nadu, India Using QGIS MOLUSCE Plugin. *Research Square (Research Square)*. <https://doi.org/10.21203/rs.3.rs-616393/v1>
- Khoshgoftar, M.M., & Taleai, M. (2010). Simulating Urban Growth in Tehran Using CA – Markov Model. *Journal of Remote Sensing and GIS*, 2(2), 17-33. SID. <https://sid.ir/paper/583360/en>
- Kuo, Y. M., Liu, C. W., & Lin, K. H. (2004). Evaluation of The Ability of An Artificial Neural Network Model to Assess The Variation of Groundwater Quality in An Area of Blackfoot Disease in Taiwan. *Water Research*, 38, 1. <https://doi.org/10.1016/j.watres.2003.09.026>
- Kusniawati, I., Subiyanto, S., & Amarrohman, F. J. (2019). Analisis Model Perubahan Penggunaan Lahan Menggunakan Artificial Neural Network di Kota Salatiga. *Jurnal Geodesi Undip*, 9(1), 1–11. <https://doi.org/10.14710/jgundip.2020.26026>
- Lazarowska, A. (2020). Comparison of Discrete Artificial Potential Field Algorithm and Wave-Front Algorithm for Autonomous Ship Trajectory Planning. *IEEE Access*, 8, 221013–221026. <https://doi.org/10.1109/access.2020.3043539>
- Lestari, D. A., & Salim, H. (2020). Efektivitas Pemodelan Automata Seluler Untuk Prediksi Area yang Dibangun di Wilayah Pesisir Kota Bengkulu. *Jurnal Kemaritiman*, 1(1), 15–24. <https://doi.org/10.17509/ijom.v1i1.24633>
- Liu, Y. (2009). *Modelling Urban Development with Geographical Information Systems and Cellular Automata*. New York: CRC Press. <https://doi.org/10.1201/9781420059908>

- Marceau, D. J., & Benenson, I. (2011). Challenges and perspectives in Geosimulation. *Advanced Geosimulation Models; Marceau, DJ, Benenson, I., Eds*, 3-13.
- Moreno, N. L. (2008). A Vector-Based Geographical Cellular Automata Model to Mitigate Scale Sensitivity and to Allow Objects Geometric Transformation. *Scholaris.ca*. <https://ucalgary.scholaris.ca/items/6f9c50df-1a81-48cf-a3f9-8a62779c4297>
- Mukhlis, I. R. (2023). *Sistem Informasi Geografis (SIG)*. PT. Green Pustaka Indonesia. <https://www.researchgate.net/publication/376582770>
- Nabila, D. A. (2023). Pemodelan prediksi dan kesesuaian perubahan penggunaan lahan menggunakan Cellular Automata-Artificial Neural Network (CA-ANN). *Tunas Agraria*, 6(1), 41–55. <https://doi.org/10.31292/jta.v6i1.203>
- Naharuddin, N. (2020). *Konservasi Tanah dan Air*. Penerbit Media Sains Indonesia. [https://www.researchgate.net/publication/361380758\\_KONSERVASI\\_TANAH\\_DAN\\_AIR](https://www.researchgate.net/publication/361380758_KONSERVASI_TANAH_DAN_AIR)
- Rocco S, C. M., & Moreno, J. A. (2002). Network reliability assessment using a cellular automata approach. *Reliability Engineering & System Safety*, 78(3), 289–295. [https://doi.org/10.1016/s0951-8320\(02\)00174-6](https://doi.org/10.1016/s0951-8320(02)00174-6)
- Ruslisan, R., Zahira, F. S., & Dharmasanti, R. (2015). Prediksi Perubahan Penggunaan Lahan Terbangun Terhadap Kesesuaian Rancangan Tata Ruang Wilayah Menggunakan Regresi Logistic Binner Berdasar Data Spasial dan Penginderaan Jauh di Kota Semarang. *Undip.ac.id*. [http://eprints.undip.ac.id/49783/1/1.5.Prosiding\\_Ruslisan.pdf](http://eprints.undip.ac.id/49783/1/1.5.Prosiding_Ruslisan.pdf)
- Saputra, M., Nugraha, I., Agus, F., & Hidayah, A. (2022). Prediksi Perubahan Penutup Lahan menggunakan Integrasi Celullar Automata dan Analytical Hierarchy Process (AHP)(Studi Kasus: Kota Pekanbaru). *Journal of Urban Regional Planning and Sustainable Environment*, 1(1).
- Sarastika, T., Susena, Y., & Kurniawan, D. (2023). Prediksi Konversi Lahan Pertanian Berbasis Artificial Neural Network-Cellular Automata (ANN-CA) di Kawasan Sleman Barat. *Jurnal Tanah dan Sumberdaya Lahan*, 10(2), 471–482. <https://doi.org/10.21776/ub.jtsl.2023.010.2.30>
- Setiawan, W. (2019). Kajian Nilai Lahan Di Kota Pekanbaru (p. 148) [Pdf]. <https://repository.uir.ac.id/8718/1/123410199.pdf>
- Taşabat, S. (2019). A Novel Multicriteria Decision-Making Method Based on Distance, Similarity, And Correlation: DSC TOPSIS. *Mathematical Problems in Engineering*, 2019, 1–20. <https://doi.org/10.1155/2019/9125754>
- Todesco, G. M. (2013). Cellular Automata: the Game of Life. *Imagine Math* 2, 231–243. [https://doi.org/10.1007/978-88-470-2889-0\\_25](https://doi.org/10.1007/978-88-470-2889-0_25)
- Wahyudi, A., & Liu, Y. (2015). Spatial Dynamic Models for Inclusive Cities: a Brief Concept of Cellular Automata (CA) and Agent-Based Model (ABM). *Jurnal Perencanaan Wilayah dan Kota*, 26(1), 54–70. <https://doi.org/10.5614/jpwk.2015.26.1.6>
- Wahyudi, A., & Utami, R. (2022). Penggunaan Metode Euclidean Distance pada Aplikasi Pencarian Lokasi Rumah Sakit di Kota Medan. *Informatics Engineering and Electronic Data (IEED)*, 1, 47–58. <https://doi.org/10.59840/ieed.v1i1.193>

- Wijaya, M., & Susilo, B. (2013). Integrasi Model Spasial Cellular Automata dan Regresi Logistik Biner Untuk Pemodelan Dinamika Perkembangan Lahan Terbangun (Studi Kasus Kota Salatiga). *Jurnal Bumi Indonesia*.
- Wolfram, S. (1984) Cellular Automata as Models of Complexity. *Nature*, 311, 419-424. <https://doi.org/10.1038/311419a0>
- Wu, Y., & Feng, J. (2017). Development and Application of Artificial Neural Network. *Wireless Personal Communications*, 102(2), 1645–1656. <https://doi.org/10.1007/s11277-017-5224-x>
- Yuliasuti, N., & Fatchurochman, A. (2012). Pengaruh Perkembangan Lahan Terbangun Terhadap Kualitas Lingkungan Permukiman (Studi Kasus: Kawasan Pendidikan Kelurahan Tembalang). *Jurnal Presipitasi : Media Komunikasi dan Pengembangan Teknik Lingkungan*, 9(1), 10-16. <https://doi.org/10.14710/presipitasi.v9i1.10-16>