



- Ackermann, F., & Eden, C. (2011). Strategic Management of Stakeholders: Theory and Practice. *Long Range Planning*, 44(3), 179–196. <https://doi.org/10.1016/j.lrp.2010.08.001>
- Ahmed, H., & Anang, B. T. (2019). Does farmer group membership enhance technology adoption? empirical evidence from Tolon District of Ghana. *Review of Agricultural and Applied Economics (RAAE)*, 22(2), 26–32.
- Akib, H. (2010). Implementasi kebijakan: apa, mengapa, dan bagaimana. *Jurnal Administrasi Publik*, 1(1), 1–11.
- Anglin, A. H., Kincaid, P. A., Short, J. C., & Allen, D. G. (2022). Role Theory Perspectives: Past, Present, and Future Applications of Role Theories in Management Research. *Journal of Management*, 48(6), 1469–1502. <https://doi.org/10.1177/01492063221081442>
- Apriyanto, M., Fikri, KMS. N. S., & Azhar, A. (2021). Sosialisasi Konsep Lahan Pertanian Pangan Berkelanjutan Di Kecamatan Batang Tuaka, Kabupaten Indragiri Hilir. *PakMas: Jurnal Pengabdian Kepada Masyarakat*, 1(1), 08–14. <https://doi.org/10.54259/pakmas.v1i1.24>
- Biddle, B. J. (1986). Recent Developments in Role Theory. *Annual Review of Sociology*, 12(1), 67–92. <https://doi.org/10.1146/annurev.so.12.080186.000435>
- Bingham, C. M. (2017). Money talks: A semiotic exploration of money as communication. *TICS*, 165–172.
- BPS Kabupaten Kulon Progo. (2023). *Hasil Pencacahan Lengkap Sensus Pertanian 2023 Kabupaten Kulon Progo*.
- Corrêa Pereira, A. C., Milne, D., & Timms, P. (2023). Investigation of the aerotropolis concept and its transferability around the world. *Journal of Air Transport Management*, 106, 102271. <https://doi.org/10.1016/j.jairtraman.2022.102271>
- Creswell, J. W., & Poth, C. N. (2016). *Qualitative inquiry and research design: Choosing among five approaches*. Sage publications.
- Debela, M., Diriba, S., & Bekele, H. (2018). IMPACT OF COOPERATIVES MEMBERSHIP ON ECONOMY IN EASTERN OROMIA: THE CASE OF HARAMAYA AGRICULTURAL FARMERS' COOPERATIVE UNION (HAFCU). *Annals of Public and Cooperative Economics*, 89(2), 361–376. <https://doi.org/10.1111/apce.12175>
- Dinas Pertanian dan Pangan Kulon Progo. (2023). *Upaya Pelestarian Lahan Surjan melalui Lomba Intensifikasi di KT. Ngudi Makmur, Seworan, Triharjo*. Dinas Pertanian Dan Pangan Kulon Progo. <https://pertanian.kulonprogokab.go.id/publikasi/detail/upaya-pelestarian-lahan-surjan-melalui-lomba-intensifikasi-di-kt-ngudi-makmur,-seworan,-triharjo.-w>
- Direktorat Warisan dan Diplomasi Budaya. (2019). *Sawah Surjan*. Direktorat Warisan Dan Diplomasi Budaya Indonesia. <https://kebudayaan.kemdikbud.go.id/ditwdb/sawah-surjan/>
- Djibran, Moh. M., Andiani, P., Nurhasanah, D. P., & Mokoginta, M. M. (2023). Analisis Pengembangan Model Pertanian Berkelanjutan yang Memperhatikan Aspek Sosial dan Ekonomi di Jawa Tengah. *Jurnal Multidisiplin West Science*, 2(10), 847–857. <https://doi.org/10.58812/jmws.v2i10.703>
- Fattah, A. N., & Purnomo, E. P. (2018). Analisis Kebijakan Alih Fungsi Lahan Pertanian ke Non-Pertanian di Kabupaten Klaten tahun 2013-2016 (Studi Kasus Kecamatan Ceper Kabupaten Klaten). *JISPO (Jurnal Ilmu Sosial Dan Ilmu Politik)*, 8(1), 113–140.
- Fitriantoro, M. I. (2020). Drivers of Conflict in Urban Infrastructure: Case Study of the New Yogyakarta Airport. *Jurnal Politik*, 6(1), 87. <https://doi.org/10.7454/jp.v6i1.214>
- Flores-Fillol, R., Garcia-López, M.-À., & Nicolini, R. (2016). Organization of Land Surrounding Airports: The Case of the Aerotropolis. *Land Economics*, 92(1), 57–81. <https://doi.org/10.3368/le.92.1.57>
- Getzels, J. W., & Guba, E. G. (1954). Role, Role Conflict, and Effectiveness: An Empirical Study. *American Sociological Review*, 19(2), 164–175. <https://doi.org/10.2307/2088398>
- Goetz, A. R. (2019). The airport as an attraction: the airport city and aerotropolis concept. In *Air Transport: A Tourism Perspective* (pp. 217–232). <https://doi.org/https://doi.org/10.1016/j.trpro.2020.02.076>



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- Gregory, J. A., Madala, J. P., Midgley, G., & Hodgson, A. M. (2020). Stakeholder identification and engagement in problem structuring interventions. *European Journal of Operational Research*, 283(1), 321–340. <https://doi.org/10.1016/j.ejor.2019.10.044>
- Hazell, P., Poulton, C., Wiggins, S., & Dorward, A. (2010). The Future of Small Farms: Trajectories and Policy Priorities. *World Development*, 38(10), 1349–1361. <https://doi.org/10.1016/j.worlddev.2009.06.012>
- Heron, H., & Kim, M. S. (2023). Between chili farms and an aerotropolis: the struggle against the new airport in Yogyakarta, Indonesia. *South East Asia Research*, 31(1), 51–71. <https://doi.org/10.1080/0967828X.2023.2208371>
- Hubbard, J. R., Mitra, S., & Miller, C. R. (2019). Analyzing human capital as a component of the aerotropolis model. *Journal of Air Transport Management*, 78, 63–70. <https://doi.org/10.1016/j.jairtraman.2019.04.008>
- Huo, B., & Guo, M. (2021). How Does an Aerotropolis Integrate? A Case from Zhengzhou Airport Economy Zone. *Logistics*, 5(2), 1–16. <https://doi.org/10.3390/logistics5020026>
- Idris, I., Adi, K. R., Firmasyah, R., Nadhianty, A., Mobarq, M. H., Putri, P. G., Pratama, A. S., & Wahono, E. R. (2021). DEVELOPING SMART TOURISM USING VIRTUAL REALITY AS A TOURISM PROMOTION STRATEGY IN INDONESIA. *GeoJournal of Tourism and Geosites*, 35(2), 332–337. <https://doi.org/10.30892/gtg.35210-656>
- Indriani, M. N. (2018). *Eksistensi Kearifan Lokal Hindu Bali Di Era Globalisasi (Arsitektur Bali dan Subak Kota Denpasar)*. UNHI Press.
- Kahn, R. L., Wolfe, D. M., Quinn, R. P., & Snoek, J. D. (1964). *Organizational stress: Studies in role conflict and ambiguity*. Wiley.
- Kamruzzaman, Md., Aston, L., Baker, D., Braun, B., & Shatu, F. (2021). Changes in land use typology of global airports: An empirical investigation with implications for the aerotropolis concept. *Journal of Transport Geography*, 97, 103217. <https://doi.org/10.1016/j.jtrangeo.2021.103217>
- Karaya, R. N., Onyango, C. A., & Ogendi, G. M. (2020). The Effect of Participation in Farmer Groups on Household Adoption of Sustainable Land Management Practices in Kenyan Drylands. *Asian Journal of Agricultural Extension, Economics & Sociology*, 38(11), 66–80. <https://doi.org/10.9734/ajaees/2020/v38i1130454>
- Katz, D., & Kahn, R. L. (1978). *The social psychology of organizations* (2nd ed.). Wiley.
- Kumar, P., Kumar, P., & Garg, R. K. (2021). A study on farmers' satisfaction and happiness after the land sale for urban expansion in India. *Land Use Policy*, 109, 105603. <https://doi.org/10.1016/j.landusepol.2021.105603>
- Latif, A., Karim, A., Sugianto, S., Romano, & Rusdi, M. (2022). Evaluation of the spatial planning in agropolitan area development in Nagan Raya Regency, Indonesia. *International Review for Spatial Planning and Sustainable Development*, 10(2), 219–234. [https://doi.org/10.14246/irspsd.10.2\\_219](https://doi.org/10.14246/irspsd.10.2_219)
- Latifah, U., Purnamasari, H., & Azizah, A. N. (2022). Manajemen Strategi Dinas Pertanian Dalam Menjaga Kestabilan Pertanian Di Kecamatan Cibarusah Kabupaten Bekasi. *Jurnal Ilmiah Muqoddimah: Jurnal Ilmu Sosial, Politik, Dan Humaniora*, 6(2), 444–452.
- LIU, J. J. H., HSU, C.-C., LI, C.-S. J., PINEDA, P. J. G., & CHANG, G.-W. (2018). DEVELOPING A SUCCESSFUL AEROTROPOLIS BY USING A HYBRID MODEL UNDER INFORMATION UNCERTAINTY. *Technological and Economic Development of Economy*, 24(3), 1080–1103. <https://doi.org/10.3846/20294913.2017.1289484>
- Michaelides, M., & Laouris, Y. (2024). A cascading model of stakeholder engagement for large-scale regional development using structured dialogical design. *European Journal of Operational Research*, 315(1), 307–323. <https://doi.org/10.1016/j.ejor.2023.11.050>
- Mosalagae, D., & Mogotsi, K. (2013). Caught in a sandstorm: an assessment of pressures on communal pastoral livelihoods in the Kalahari Desert of Botswana. *Pastoralism: Research, Policy and Practice*, 3, 1–20.
- Mwangi, M., & Kariuki, S. (2015). Factors determining adoption of new agricultural technology by smallholder farmers in developing countries. *Journal of Economics and Sustainable Development*, 6(5).
- Nasongkhla, S., & Sintusingha, S. (2010). Global aerotropolis versus local aqua-community: conflicting landscapes in the extended Bangkok Metropolitan Region, Thailand. *The Sustainable World*, 205–216. <https://doi.org/10.2495/SW100191>



- Nasution, A. M. D., Harisdani, D. D., & Napitupulu, P. P. (2017). The Implementation of Aerotropolis Concept on New Town Planning and Design in Mebidangro, Sumatera Utara. *IOP Conference Series: Materials Science and Engineering*, 180, 012293. <https://doi.org/10.1088/1757-899X/180/1/012293>
- Pemerintah Kabupaten Kulon Progo. (2019). *Luas Pertanian Lahan Surjan Capai 820 Ha*. Pemerintah Kabupaten Kulon Progo. <https://kulonprogokab.go.id/v31/detil/6540/luas-pertanian-lahan-surjan-capai-820-ha>
- Pesurnay, A. J. (2018). Local Wisdom in a New Paradigm: Applying System Theory to the Study of Local Culture in Indonesia. *IOP Conference Series: Earth and Environmental Science*, 175(1). <https://doi.org/10.1088/1755-1315/175/1/012037>
- Phan, T. T. (2023). Farmers' Resistance to Agricultural Land Transformation in Vietnam. *Thammasat Review*, 26(2), 273–296.
- Poomchalit, W., Suzuki, K., & Suzuki, A. (2018). Review on the Relationship between the Spatial Developments and the Change of Wooden Houses in Original Settlements in the Suburban Expansion of Bangkok. *International Review for Spatial Planning and Sustainable Development*, 6(2), 12–29. <https://doi.org/10.14246/irspsd.6.2.12>
- Pornpimon, C., Wallapha, A., & Prayuth, C. (2014). Strategy Challenges the Local Wisdom Applications Sustainability in Schools. *Procedia - Social and Behavioral Sciences*, 112, 626–634. <https://doi.org/10.1016/j.sbspro.2014.01.1210>
- Prastyadewi, M. I., Susilowati, I., & Iskandar, D. D. (2021). Preserving the Existence of Subak in Bali: The Role of Social, Cultural, and Economic Agencies. *Economia Agro-Alimentare*, 22(3), 1–20. <https://doi.org/10.3280/ecag3-2020oa11045>
- Prayitno, G., Dinanti, D., Sari, N., Hidayana, I. I., & Azizi, F. A. A. (2021). The impact of incentives on the decision to transfer agricultural land functions to non-agricultural uses. *IOP Conference Series: Earth and Environmental Science*, 916(1), 1–7. <https://doi.org/10.1088/1755-1315/916/1/012029>
- Rijanta, R. (2018). Sustainability of the Sawah Surjan Agricultural Systems in Depok Village, Panjatan Subdistrict, Kulonprogo Regency, Yogyakarta Special Province. *Forum Geografi*, 32(2), 109–118. <https://doi.org/10.23917/forgeo.v32i2.5798>
- Rizzo John, R., House Robert, J., & Lirtzman Sidney, I. (1970). Role conflict and ambiguity in complex organizations. *Administrative Science Quarterly*, 15(2), 150–163.
- Rogerson, C. M. (2018). Urban tourism, aerotropolis and local economic development planning: Ekurhuleni and O.R. Tambo International Airport, South Africa. *Miscellanea Geographica*, 22(3), 123–129. <https://doi.org/10.2478/mgrsd-2018-0019>
- Rondhi, M., Pratiwi, P. A., Handini, V. T., Sunartomo, A. F., & Budiman, S. A. (2018). Agricultural Land Conversion, Land Economic Value, and Sustainable Agriculture: A Case Study in East Java, Indonesia. *Land*, 7(4), 148–166. <https://doi.org/10.3390/land7040148>
- Saputra, B. E., Triyanto, M., Murdi, L., Hadi, M. S., & Murcahyanto, H. (2022). Peranan Penyuluh Pertanian Lapangan pada Masyarakat di Era Modern. *Kaganga: Jurnal Pendidikan Sejarah Dan Riset Sosial Humaniora*, 5(2), 289–301. <https://doi.org/10.31539/kaganga.v5i2.4316>
- Soemardiono, B., & Fabrian Gusma, A. (2014). The Development of Code River Area in Yogyakarta as a Sustainable Urban Landscape Asset acknowledging Local Traditional Knowledge. *International Review for Spatial Planning and Sustainable Development*, 2(4), 4–18. <https://doi.org/10.14246/irspsd.2.4.4>
- Syaifuddin, M., Purnomo, E. P., Salsabila, L., Fathani, A. T., & Mitra Adrian, M. (2021). Development of Aerotropolis in Kulon Progo with Green Infrastructure Concept. *IOP Conference Series: Earth and Environmental Science*, 837(1). <https://doi.org/10.1088/1755-1315/837/1/012014>
- Uspayanti, R., Butarbutar, R., Fredy, Hiskya, H. J., Sajriawati, & Ainani, A. F. (2021). Local Wisdom and its Implication for Nature Conservation. *Review of International Geographical Education*, 11(5), 292–302.
- Utami, S. N. H., Hermania, P. M., & Purwanto, B. H. (2023). Sawah Surjan Environmental Management for Food Crop Diversification in Kulon Progo of Yogyakarta, Indonesia. *Journal of Smart Agriculture and Environmental Technology*, 1(2), 49–58. <https://doi.org/10.60105/josaet.2023.1.2.49-58>
- Van Hecken, G., Merlet, P., Lindtner, M., & Bastiaensen, J. (2019). Can Financial Incentives Change Farmers' Motivations? An Agrarian System Approach to Development Pathways



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UNIVERSITAS GADJAH MADA  
aGADJAH MADA Agricultural Frontier. *Ecological Economics*, 156, 519–529.

<https://doi.org/10.1016/j.ecolecon.2016.12.030>

- Ventura, P., Zazzi, M., Rossetti, S., & Carra, M. (2020). Urban Development and Airports in Northern and Central Italy: Main Trends and a Focus on Parma Giuseppe Verdi Case Study. *Transportation Research Procedia*, 45, 914–921. <https://doi.org/10.1016/j.trpro.2020.02.076>
- Viator, R. E. (2001). The association of formal and informal public accounting mentoring with role stress and related job outcomes. *Accounting, Organizations and Society*, 26(1), 73–93. [https://doi.org/10.1016/S0361-3682\(00\)00002-7](https://doi.org/10.1016/S0361-3682(00)00002-7)
- Widiyanto, D. (2018). An Exploration of Food Insecurity, Poverty, Livelihood and Local Food Potentials in Kulon Progo Regency, Indonesia. *Forum Geografi*, 32(1), 64–87. <https://doi.org/10.23917/forgeo.v32i1.5818>
- Wiegratz, J., & Cesnulyte, E. (2016). Money Talks: Moral Economies of Earning a Living in Neoliberal East Africa. *New Political Economy*, 21(1), 1–25. <https://doi.org/10.1080/13563467.2015.1041479>
- Yun, J. (2015). A New City Prototype?: Songdo International City as an Airport City. *Journal of Asian Architecture and Building Engineering*, 14(3), 549–556. <https://doi.org/10.3130/jaabe.14.549>