

DAFTAR PUSTAKA

- Adetyobagus, D.S. 2019. Analysis of Demand for Beef in Semarang Regency. *Indones. J. Dev. Econ.* 2(2):395–403. doi:10.15294/efficient.v2i2.30798.
- Agus, A., dan T.S. Mastuti Widi. 2018. Current situation and future prospects for beef cattle production in Indonesia — A review. *Asian-Australasian J. Anim. Sci.* 31(7):976–983. doi:10.5713/ajas.18.0233.
- Agustine, R., S. Bintara, S. Andarwati, M.A.U. Muzayyanah, T.S.M. Widi, dan A.R.S. Putra. 2019a. Analysis in making decision of farmer to select bull frozen semen in Indonesia. *J. Indones. Trop. Anim. Agric.* 44(3):323–332. doi:10.14710/jitaa.44.3.323-332.
- Agustine, R., S. Bintara, S. Andarwati, T.S.M. Widi, dan A.R.S. Putra. 2019b. Farmer's decision in selecting the bull semen for artificial insemination in Central Java. *IOP Conf. Ser. Earth Environ. Sci.* 260(1):3–8. doi:10.1088/1755-1315/260/1/012048.
- Anindita, R., A.A. Sadiyah, N. Khoiriyah, dan D.R. Nendyssa. 2020. The demand for beef in Indonesian urban. *IOP Conf. Ser. Earth Environ. Sci.* 411(1):012057. doi:10.1088/1755-1315/411/1/012057.
- Antara, M., dan M.S. Sumarniash. 2019. Behind the Volatility of Beef Price in Indonesia. *Economy* 6(1):1–6. doi:10.20448/journal.502.2019.61.1.6.
- Arquitt, S., dan R. Johnstone. 2008. Use of system dynamics modelling in design of an environmental restoration banking institution. *Ecol. Econ.* 65(1):63–75. doi:10.1016/j.ecolecon.2007.05.013.
- Attri, R., N. Dev, dan V. Sharma. 2013. Interpretive structural modelling (ISM) approach: an overview. *Res. J. Manag. Sci.* 2(2):3–8.
- Badan Litbang Pertanian. 2017. Rencana strategis Badan Penelitian dan Pengembangan Pertanian. IAARD PRESS.
- Badan Pusat Statistik. 2020. Peternakan dalam Angka 2020. Subdirektorat Statistik Peternakan, ed. Badan Pusat Statistik, Jakarta.
- Badan Pusat Statistik Provinsi Jawa Tengah. 2021. Provinsi Jawa Tengah dalam Angka 2021. B.I.P. dan D. Statistik, ed. Badan Pusat Statistik Provinsi Jawa Tengah, Semarang.
- Bain, A., F. Peternakan, dan U. Halu. 2021. Revitalisasi sistem pengelolaan bahan pakan lokal untuk mewujudkan swasembada pakan ternak di daerah. Halaman 18–29 in *Prosiding Seminar Teknologi dan Agribisnis Peternakan VIII–Webinar*.
- Bokdam, J., dan M.F. De Vries Wallis. 1992. Forage Quality as a Limiting Factor for Cattle Grazing in Isolated Dutch Nature Reserves. *Conserv. Biol.* 6(3):399–408. doi:10.1046/j.1523-1739.1992.06030399.x.
- BPS-Statistics Indonesia. 2018. Indonesia Population Projection 2015-2045. Badan Pusat Statistik, Jakarta.
- BPS - Statistics of Jawa Tengah Province. 2017. Hasil Survei Struktur Ongkos Usaha Peternakan 2017. Badan Pusat Statistik Provinsi Jawa Tengah,

Semarang.

- Buda, M., dan Z. Mohamed. 2021. Impact of Different Importation Policies Scenarios on Beef Industry in Peninsular Malaysia. *Agrar. J. Agribus. Rural Dev. Res.* 7(1):24–35. doi:10.18196/agraris.v7i1.10540.
- Bunmee, T., N. Chaiwang, C. Kaewkot, dan S. Jaturasitha. 2018. Current situation and future prospects for beef production in Thailand — A review. *Asian-Australasian J. Anim. Sci.* 31(7):968–975. doi:10.5713/ajas.18.0201.
- Burrow, H. 2019. Strategies for Increasing Beef Cattle Production under Dryland Farming Systems. *Indones. Bull. Anim. Vet. Sci.* 29(4):161. doi:10.14334/wartazoa.v29i4.2452.
- CADIS. 2019. Beef Outlook. Center for Agriculture Data and Information Systems, Ministry of Agriculture of the Republic of Indonesia, Jakarta.
- Darmawan, D.P. 2017. Pengambilan Keputusan Terstruktur dengan Interpretive Structural Modeling. Penerbit Elmatera, Yogyakarta.
- Djenadic, S., D. Ignjatovic, M. Tanasijevic, U. Bugaric, I. Jankovic, dan T. Subaranovic. 2019. Development of the Availability Concept by Using Fuzzy Theory with AHP Correction, a Case Study: Bulldozers in the Open-Pit Lignite Mine. *Energies* 12(21):4044. doi:10.3390/en12214044.
- Ekowati, T., D.H. Darwanto, S. Nurtini, dan A. Suryantini. 2011. The Analysis of Beef Cattle Subsystem Agribusiness Implementation in Central Java Province, Indonesia. *J. Indones. Trop. Anim. Agric.* 36(4):. doi:10.14710/jitaa.36.4.281-289.
- Ekowati, T., E. Prasetyo, dan M. Handayani. 2018. The factors influencing production and economic efficiency of beef cattle farm in Grobogan Region, Central Java. *J. Indones. Trop. Anim. Agric.* 43(1):76. doi:10.14710/jitaa.43.1.76-84.
- Ella, A., A. Nurhayu, D. Pasambe, dan L. Amna. 2020. Estimasi Keseimbangan Populasi Ternak Sapi dengan Ketersediaan Pakan di IP2TP Gowa (Estimation of Cattle Population Balance with Availability of Feed at Halaman 143–151 in Prosiding Seminar Nasional Teknologi Peternakan dan Veteriner Virtual 2020 Kesemuanya.
- Elly, F.H. 2021. Potensi dan prospek pengembangan agribisnis peternakan sapi potong. Halaman 38–49 in Prosiding Seminar Teknologi dan Agribisnis Peternakan VIII–Webinar.
- Elly, F.H., A. Lomboan, C.L. Kaunang, M. Rundengan, Z. Poli, dan S. Syarifuddin. 2020. Development Potential of Integrated Farming System (Local Cattle - Food Crops). *Anim. Prod.* 21(3):143. doi:10.20884/1.jap.2019.21.3.739.
- Etemadinia, H., dan M. Tavakolan. 2021. Using a hybrid system dynamics and interpretive structural modeling for risk analysis of design phase of the construction projects. *Int. J. Constr. Manag.* 21(1):93–112. doi:10.1080/15623599.2018.1511235.
- Evagorou, M., K. Korfiatis, C. Nicolaou, dan C. Constantinou. 2009. An investigation of the potential of interactive simulations for developing system

- thinking skills in elementary school: A case study with fifth-graders and sixth-graders. *Int. J. Sci. Educ.* 31(5):655–674. doi:10.1080/09500690701749313.
- Farras, M.F., R. Anindita, dan R. Asmara. 2021. Consumption pattern and demand of animal protein in Malang City application of Almost Ideal Demand System (AIDS). *J. Ekon. Pertan. dan Agribisnis* 5(2):286–297. doi:10.21776/ub.jepa.2021.005.02.01.
- Farris, D.R., dan A.P. Sage. 1975. On the use of interpretive structural modeling for worth assessment. *Comput. Electr. Eng.* 2(2):149–174. doi:10.1016/0045-7906(75)90004-X.
- Firmansyah, I., Widiatmaka, B. Pramudya, dan S. Budiharsono. 2019. The dynamic model of paddy field conversion control in Citarum watershed. *IOP Conf. Ser. Earth Environ. Sci.* 399(1):012009. doi:10.1088/1755-1315/399/1/012009.
- Forrester, J.W. 1971. Counterintuitive behavior of social systems. *Technol. Forecast. Soc. Change* 3(C):1–22. doi:10.1016/S0040-1625(71)80001-X.
- Forrester, J.W. 2007. System dynamics — a personal view of the first fifty years † *23(2):345–358.* doi:10.1002/sdr.
- Fuah, A.M., A. Yani, R. Priyanto, B.P. Purwanto, J.R. Riwukore, dan F. Habaora. 2020. Analysis of the Development of Bali Cattle Population in Agriculture Ecosystem of Timor Island using System Dynamics. *Anim. Prod.* 22(2):105–117. doi:10.20884/1.jap.2020.22.2.45.
- Galarneau, K.D., R.S. Singer, dan R.W. Wills. 2020. A system dynamics model for disease management in poultry production. *Poult. Sci.* 1–13. doi:10.1016/j.psj.2020.08.011.
- Gebremariam, M.K., C. Vaqué-Crusellas, L.F. Andersen, F.M. Stok, M. Stelmach-Mardas, J. Brug, dan N. Lien. 2017. Measurement of availability and accessibility of food among youth: a systematic review of methodological studies. *Int. J. Behav. Nutr. Phys. Act.* 14(1):22. doi:10.1186/s12966-017-0477-z.
- Gilarso, T. 2004. Pengantar Ilmu Ekonomi Mikro. Kanisius, Yogyakarta.
- Guan, D., W. Gao, W. Su, H. Li, dan K. Hokao. 2011. Modeling and dynamic assessment of urban economy – resource – environment system with a coupled system dynamics – geographic information system model. *Ecol. Indic.* 11(5):1333–1344. doi:10.1016/j.ecolind.2011.02.007.
- Hafid, H.H., Nuraini, dan Herman. 2013. Karakteristik karkas dan bagian-bagian karkas sapi peranakan ongole jantan dan betina pada peternakan rakyat di Provinsi Sulawesi Tenggara. Halaman 116–121 in Seminar Nasional Teknologi Peternakan dan Veteriner 2013.
- Haraldsson, H. V. 2000. Introduction to Systems and Causal Loop Diagrams. System Analysis course, LUMES, Lund University.
- Harini, R., B. Susilo, dan E. Nurjani. 2015. Geographic information system-based spatial analysis of agricultural land suitability in Yogyakarta. *Indones. J. Geogr.* 47(2):171–179. doi:10.22146/ijg.9260.

- Harmini, H., R.W. Asmarantaka, dan J. Atmakusuma. 2011. Model dinamis sistem ketersediaan daging sapi nasional. *J. Ekon. Pembang. Kaji. Masal. Ekon. dan Pembang.* 12(1):128. doi:10.23917/jep.v12i1.211.
- Heryana, A. 2017. *Sistem: Teori, Pengertian dan Berfikir Sistem Aplikasi dalam Bidang Kesehatan.* Universitas Esa Unggul, Jakarta.
- Heryanto, M.A., Y. Sukayat, dan D. Supyandi. 2012. Sistem inovasi berkelanjutan dalam agribisnis: mengurai stagnasi inovasi agribisnis. *Sist. Inov. Berkelanjutan Dalam Agribisnis Mengurai Stagnasi Inov. Agribisnis.*
- Ilham, N. 2009. Kebijakan Pengendalian Harga Daging Sapi Nasional: Policy on national beef price control. *J. Anal. Kebijak. Pertan.* 7(3):211–221.
- Imaz, J.A., S. Garcia, dan L.A. González. 2019. Feeding Behaviour , and Growth Rate as A ff ected by Forage Quantity and Quality of Rotationally Grazed. *Animals* 9(12):1–14.
- Jufiardi, J.W., dan F.A. Pinagara. 2019. Analysis of supply chain management in ABC poultry using system dynamics approach. *IOP Conf. Ser. Mater. Sci. Eng.* 567(1):012034. doi:10.1088/1757-899X/567/1/012034.
- Kamble, S.S., A. Gunasekaran, dan R. Sharma. 2020. Modeling the blockchain enabled traceability in agriculture supply chain. *Int. J. Inf. Manage.* 52(April 2019):101967. doi:10.1016/j.ijinfomgt.2019.05.023.
- Komalawati, R.W. Asmarantaka, R. Nurmalina, dan D.B. Hakim. 2019. Modeling price volatility and supply response of Beef in Indonesia. *Trop. Anim. Sci. J.* 42(2):159–166. doi:10.5398/tasj.2019.42.2.159.
- Kondratenko, Y. 2003. How can systems thinking be used to support rural development decisions in latvia.
- Kusuma, S.B., N. Ngadiyono, dan S. Sumadi. 2017. ESTIMASI DINAMIKA POPULASI DAN PENAMPILAN REPRODUKSI SAPI PERANAKAN ONGOLE DI KABUPATEN KEBUMEN PROVINSI JAWA TENGAH. *Bul. Peternak.* 41(3):230. doi:10.21059/buletinpeternak.v41i3.13618.
- Kuswati, dan T. Susilawati. 2016. *Industri Sapi Potong.* UB Press, Malang.
- Lange, A., R. Siebert, dan T. Barkmann. 2015. Sustainability in land management: An analysis of stakeholder perceptions in Rural Northern Germany. *Sustain.* 7(1):683–704. doi:10.3390/su7010683.
- Larsson, M. 2009. *Learning Systems Thinking: the Role of Semiotic and Cognitive Resources.* Lund University, Svedala.
- Lee, D.M. 2007. Structured decision making with interpretive structural modeling: implementing the core of interactive management. Sorach, Ottawa.
- Leveson, N.G. 2001. *Engineering A Safer World Systems Thinking Applied to Safety,* Massachussets. MIT Press.
- Mahbubi, A. 2013. Model Dinamis Supply Chain Beras Berkelanjutan dalam Upaya Ketahanan Pangan Nasional. *J. Manaj. dan Agribisnis* 10(2):81–89. doi:10.17358/jma.10.2.81-89.
- Mai, T., dan C. Smith. 2015. Addressing the threats to tourism sustainability using systems thinking: a case study of Cat Ba Island, Vietnam. *J. Sustain. Tour.*

23(10):1504–1528. doi:10.1080/09669582.2015.1045514.

- Marisa, J., dan S.A. Sitepu. 2020. Relationship Analysis between Production Factors with Business Production of Beef Cattle Livestock in Binjai Barat District, Indonesia. *Asian J. Adv. Res. Reports* 9(1):1–7. doi:10.9734/ajarr/2020/v9i130208.
- Marpaung, P., Hasnudi, dan Rahmanta. 2020. Analysis of factors influencing beef cattle productivities and their development strategies in Dairy Regency, Sumatera Utara Province, Indonesia. *IOP Conf. Ser. Earth Environ. Sci.* 454(1):. doi:10.1088/1755-1315/454/1/012054.
- Milford, A.B., C. Le Mouël, B.L. Bodirsky, dan S. Rolinski. 2019. Drivers of meat consumption. *Appetite* 141(January): doi:10.1016/j.appet.2019.06.005.
- Miller. 2006. Explaining Keynes Theory of Consumption, and Assessing its Strength and Weakness. Penebar Swadaya, Jakarta.
- Moradi, S., F. Nasirzadeh, dan F. Golkhoo. 2015. A hybrid SD-DES simulation approach to model construction projects. *Constr. Innov.* 15(1):66–83. doi:10.1108/CI-10-2013-0045.
- Muatip, K., T. Widiyastuti, N.N. Hidayat, H. Purwaningsih, dan E. Purwanto. 2017. Forage Business at Kebumen District Central Java Province. *Anim. Prod.* 19(2):135–142.
- Mukson, W. Roessali, dan H. Setiyawan. 2014. Analysis Development Regional of Cattle Beef in Support Meat Self-Sufficiency in Central Java. *J. Peternak. Indones.* 16(1):.
- Muzayyanah, M.A.U., dan N.H.U. Dewi. 2019. Determinants of household beef consumption in Indonesia: A binary logistic analysis. *IOP Conf. Ser. Earth Environ. Sci.* 387(1):. doi:10.1088/1755-1315/387/1/012107.
- Muzayyanah, M.A.U., S. Nurtini, R. Widiati, S.P. Syahlani, dan T.A. Kusumastuti. 2017. Household decision analysis on animal protein food consumption: evidence from D.I Yogyakarta Province. *Bul. Peternak.* 41(2):203. doi:10.21059/buletinpeternak.v41i2.18062.
- Nugroho, E., S.J. Oosting, R. Ihle, dan W.J.M. Heijman. 2020. Smallholders' perceptions of policies for preserving the traditional Ongole cattle breed of Indonesia. *Outlook Agric.* (1):003072702098358. doi:10.1177/0030727020983588.
- Nurmalina, R. 2017. Berpikir sistem (system thinking) dalam pendekatan sistem (system aproach) [System thinking in a sistem approach]. Departemen Agribisnis Fakultas Ekonomi dan Manajemen Institute Pertanian Bogor, Bogor.
- Palobo, F., dan Y. Baliadi. 2019. Penerapan Interpretive Structural Modeling (ISM) Dalam Penentuan Elemen Pelaku Pengelolaan Tanaman Terpadu (PTT) Padi Sawah Menuju Pertanian Berkelanjutan Di Kabupaten Merauke. *J. Penelit. Pertan. Terap.* 19(1):30–44. doi:10.25181/jppt.v19i1.1396.
- Parmawati, R., A. Budiarto, dan A.S. Kurnianto. 2018. Developing Sustainable Livestock Production by Feed Adequacy Map : A Case Study in Pasuruan , Indonesia (April):67–76.

- Prahasta, E. 2018. *System Thinking dan Pemodelan Sistem Dinamis*. Informatika, Bandung.
- Pratama, I.W., R. Agustine, A. Astuti, Kasmiyati, C.T. Noviandi, A. Agus, dan A.R.S. Putra. 2021. Local forage development strategies based on beef cattle farmer's preferences. *IOP Conf. Ser. Earth Environ. Sci.* 782(2):022086. doi:10.1088/1755-1315/782/2/022086.
- Priyanti, A., I. Inounu, dan N. Ilham. 2018. Prevention of Productive Cows Slaughter through Management of Local State Enterprises. *Indones. Bull. Anim. Vet. Sci.* 27(2):53. doi:10.14334/wartazoa.v27i2.1405.
- Priyanto, D., dan B. Arsana. 2020. Analisis Performa Produksi Sapi Potong di Kawasan Sumber Ternak (NTB, NTT dan Jatim) Pensuplai Wilayah Konsumen. Halaman 205–223 in *Prosiding Seminar Nasional Teknologi Peternakan dan Veteriner Virtual 2020* ditunjukkan.
- Priyono, P., dan A.A. Hapsari. 2017. The dynamics of beef production in Java through econometric approach. Halaman 248–256 in *Teknologi Peternakan dan Veteriner Mendukung Diversifikasi Sumber Protein Asal Ternak*. Pusat Penelitian dan Pengembangan Peternakan.
- Putra, A.B., S. Mukaromah, dan P.M. Kusumantara. 2015. Demand forecast of broiler/ layer egg with system dynamics approach. Halaman D.53-D.58 in *Proceedings of the 3rd Bali International Seminar on Science and Technology (BISSTECH)*.
- Rathod, P., M. Chander, dan G. Chethan Sharma. 2017. Adoption status of artificial insemination in Indian dairy sector: Application of multinomial logit model. *J. Appl. Anim. Res.* 45(1):442–446. doi:10.1080/09712119.2016.1208099.
- Rianto, M.S., E.B. Demmallino, dan Amrawaty. 2020. The slaughter control on the productive cows on animal health division in food security, animal husbandry, and animal health service in Merauke Regency. *IOP Conf. Ser. Earth Environ. Sci.* 473(1):012040. doi:10.1088/1755-1315/473/1/012040.
- Roessali, W., M. Masyhuri, S. Nurtini, dan D.H. Darwanto. 2011. Factors Influencing Farmers' Decision to Increase Beef Cattle Business Scale in Central Java Province. *J. Indones. Trop. Anim. Agric.* 36(1):. doi:10.14710/jitaa.36.1.27-35.
- Romjali, E. 2018. Program Pembibitan Sapi Potong Lokal Indonesia. *Wartazoa* 28(4):199–210.
- Rusdiana, S. 2019. Fenomena Kebutuhan Pangan Asal Daging Dapat Dipenuhi Melalui Peningkatan Usaha Sapi Potong Di Petani. *SOCA J. Sos. Ekon. Pertan.* 13(1):61. doi:10.24843/soca.2019.v13.i01.p06.
- Rusdiana, S., I. Ismail, R. Sulaiman, A. Amiruddin, R. Daud, Z. Zainuddin, dan M. Sabri. 2018. The Effort of Beef Needs Supplying for Coming Years in Indonesia. *Int. J. Trop. Vet. Biomed. Res.* 3(1):48–59. doi:10.21157/ijtvbr.v3i1.11364.
- Rusdiana, S., dan L. Praharani. 2019. Development of people's people livestock: swat private vocational policy and feasibility study of animal businesses. *Forum Penelit. Agro Ekon.* 36(2):97. doi:10.21082/fae.v36n2.2018.97-116.

- Rusdiana, S., dan N. Soeharsono. 2018. SIWAB Program to Improve Cattle Population and Economics Value for The Business Economics. Forum Penelit. Agro Ekon. 35(2):125. doi:10.21082/fae.v35n2.2017.125-137.
- Saldias, B., dan S.J. Gibbs. 2016. Brief communication: Ad libitum fodder-beet and pasture beef-finishing systems: Intake, utilisation, grazing behaviour and liveweight gains. New Zeal. Soc. Anim. Prod. Conf.
- Salendua, A.H.S., F.H. Elly, R.E.M.F. Osak, dan I.D.R. Lumenta. 2018. Cattle Farm Development by Forages Cultivation on Coconut Land Based on Carrying Capacity in West Bolangitang, Indonesia. Int. J. Environ. Agric. Biotechnol. 3(3):1139–1144. doi:10.22161/ijeab/3.3.54.
- Salman, A., S.A. Prihatno, dan B. Sumiarto. 2021. Reproductive performance of beef cattle with ovarian hypofunction and repeat breeding in Jepara Regency, Central Java, Indonesia. Vet. World 14(3):784–787. doi:10.14202/vetworld.2021.784-787.
- Sanjaya, I.G.A.M.P., dan S. Nyoman. 2019. Farmers motivation to raising cow on Bali cattle breeding business (Case Study at Pelaga Village, Petang District, Badung Regency). IOP Conf. Ser. Earth Environ. Sci. 3471–9. doi:10.1088/1755-1315/347/1/012124.
- Santoso, A.B., dan Nurfaizin. 2017. Proteksi daya dukung pakan dan populasi sapi di Provinsi Maluku. J. Sos. Ekon. dan Kebijak. Pertan. 6(1):1–11. doi:http://dx.doi.org/10.21107/agriekonomika.v6i1.1895.
- Santoso, B., dan B.W.H.E. Prasetyono. 2018. Planning of Beef Cattle Development in District Blora, Central Java, Indonesia. E3S Web Conf. 3109022. doi:10.1051/e3sconf/20183109022.
- Sari, D.D.K., W. Busono, dan H. Nugroho. 2016a. Cattle Production Performance in Semi-Intensive and Extensive Farming System from Jembrana District , Bali , Indonesia. Res. Zool. 6(2):17–20. doi:10.5923/j.zoology.20160602.01.
- Sari, E.C., M. Hartono, dan S. Suharyati. 2016b. Faktor- Faktor Yang Memengaruhi Service Per Conception Sapi Perah Pada Peternakan Rakyat di Provinsi Lampung. J. Ilm. Peternak. Terpadu 4(1):313–318.
- Schaffernicht, M.F.G. 2021. Three Generic Policies for Sustained Market Growth Based on Two Interdependent Organizational Resources—A Simulation Study and Implications. Systems 9(2):43. doi:10.3390/systems9020043.
- Şenaras, A.E. 2017. Structure and behavior in system dynamics: a case study in logistic. J. Bus. Res. - Turk 9(4):321–340. doi:10.20491/isarder.2017.334.
- Senge, P.M. 2004. The Fifth Discipline:The art and practice of learning organisation.
- Setiyono, A.H.A. Kusuma, dan Rusman. 2017. Pengaruh bangsa, umur, jenis kelamin terhadap kualitas daging sapi potong di Daerah Istimewa Yogyakarta. Bul. Peternak. 41(2):176–186. doi:10.21059/buletinpeternak.v41i2.9935.
- Singh, R.K., S.K. Garg, S.G. Deshmukh, dan M. Kumar. 2007. Modelling of critical success factors for implementation of AMTs. J. Model. Manag. 2(3):232–250. doi:10.1108/17465660710834444.

- Skaržauskiene, A. 2010. Managing complexity: Systems thinking as a catalyst of the organization performance. *Meas. Bus. Excell.* 14(4):49–64. doi:10.1108/13683041011093758.
- Sodiq, A., P. Yuwono, J. Sumarmono, S.A. Santosa, Y.N. Wakhidati, F.R. Fauziyah, M. Rayhan, A.H. Sidhi, dan A. Maulianto. 2019a. Improving beef cattle production system for sustainable rural development in Central Java. Halaman 020028 in AIP Conference Proceedings.
- Sodiq, A., P. Yuwono, J. Sumarmono, Y.N. Wakhidati, M. Rayhan, A.H. Sidhi, dan A. Maulianto. 2019b. Improving production system of beef cattle agribusiness. *IOP Conf. Ser. Earth Environ. Sci.* 250(1):012050. doi:10.1088/1755-1315/250/1/012050.
- Sterman, J.D. 2000. *Business Dynamics: Systems Thinking and Modeling for a Complex World*. Jeffrey J. Shelstad, Cambridge.
- Sterman, J.D. 2002. *Business Dynamics, System Thinking and Modeling for a Complex World*. ESD-WP-2003-01.13. Cambridge.
- Susanti, I., M. Ihsan, dan S. Wahjuningsih. 2015. Effect of male breed on AI calf growth at Subdistrict Bantur Malang Regency. *TERNAK Trop. J. Trop. Anim. Prod.* 16(1):41–47. doi:10.21776/ub.jtapro.2015.016.01.7.
- Susanti, Y., D.S. Priyarsono, dan S. Mulatsih. 2017. Beef Cattle Farm Development for Economic Improvement of Central Java Province: A Regional Planning Approach. *J. Indones. Agribus.* 2(2):177. doi:10.29244/jai.2014.2.2.177-190.
- Sushil. 2012. Interpreting the Interpretive Structural Model. *Glob. J. Flex. Syst. Manag.* 13(2):87–106. doi:10.1007/s40171-012-0008-3.
- Tan, F., R. Febriamansyah, dan A.D. Concentration. 2016. An integrated approach of Interpretive Structural Modeling (ISM) and Analytic Hierarchy Process (AHP) in developing institutional system of the beef cattle industry. *Agriekonomika* 5(1):74–84.
- Thundathil, J.C., A.L. Dance, dan J.P. Kastelic. 2016. Fertility management of bulls to improve beef cattle productivity. *Theriogenology*. doi:10.1016/j.theriogenology.2016.04.054.
- Trilestari, E.W., dan L. Amamalik. 2008. *System Thinking Suatu Pendekatan Pemecahan Permasalahan yang Kompleks dan Dinamis*.
- Trilestari, E.W.M. s. 2004. *Systems Thinking dan System Dynamics Sebagai Suatu Pendekatan dalam Pengukuran Kinerja Pelayanan B . Keunggulan Pendekatan Systems Thinking dan System Dynamics*. *J. Ilmu Adm.* 71–81.
- Vafa-Arani, H., S. Jahani, H. Dashti, J. Heydari, dan S. Moazen. 2014. A system dynamics modeling for urban air pollution: A case study of Tehran, Iran. *Transp. Res. Part D Transp. Environ.* 3121–36. doi:10.1016/j.trd.2014.05.016.
- Vinothraj, S., A. Subramaniyan, R. Venkataramanan, C. Joseph, dan S.N. Sivaselvam. 2016. Genetic evaluation of reproduction performance of Jersey × Red Sindhi crossbred cows. *Vet. World* 9(9):1012–1017. doi:10.14202/vetworld.2016.1012-1017.

- Warfield, J.N. 1974. Developing Interconnection Matrices in Structural Modeling. IEEE Trans. Syst. Man Cybern. SMC-4(1):81–87. doi:10.1109/TSMC.1974.5408524.
- Weinberg, G.M. 2011. An Introduction to General Systems Thinking Preface to the Silver Anniversary Edition How to Use This Book Chapter 1 . The Problem Chapter 2 . The Approach Chapter 3 . System and Illusion Chapter 4 . Interpreting Observations Chapter 5 . Breaking Down Obs. Weinberg & Weinberg.
- Widarni, N.A.A., T.A. Kusumastuti, dan A.R.S. Putra. 2020. A study on farmers' choice in integrating paddy and cattle farming as farm management practices. J. Indones. Trop. Anim. Agric. 45(4):356–364. doi:10.14710/jitaa.45.4.356-364.
- Widi, T.S.M. 2015. Mapping the impact of crossbreeding in smallholder cattle systems in Indonesia. Wageningen University, Wageningen, The Netherland,.
- Widiati, R. 2014. Developing Beef Cattle Industry at Smallholders to Support Beef Self-Sufficiency. Wartazoa 24(4):191–200. doi:10.1007/978-3-642-31698-2_86.
- Widiati, R., N. Umami, dan T. Gunawan. 2017. Land capability for cattle-farming in the merapi volcanic slope of sleman regency yogyakarta. Indones. J. Geogr. 49(1):80–88. doi:10.22146/ijg.17299.
- Widiatmaka, W. Ambarwulan, I. Firmansyah, C.E. Sjamsudin, dan C. Kusmana. 2015. Land use and land cover change inside production forest in South Kalimantan Province, Indonesia, as analyzed using landsat imagery and dynamic system model. ACRS 2015 - 36th Asian Conf. Remote Sens. Foster. Resilient Growth Asia, Proc.
- Widiatmaka, W., W. Ambarwulan, I. Firmansyah, K. Munibah, P.B.K. Santoso, dan S. Sudarsono. 2014. Land suitability and dynamic system modelling to define priority areas of soybean plantation in paddy fields in Karawang, West Java. Agrivita 36(3):235–248. doi:10.17503/Agrivita-2014-36-3-235-248.
- Wiyatna, M.F., A.M. Fuah, dan K. Mudikdjo. 2012. Potensi Pengembangan Usaha Sapi Potong Berbasis Sumber daya Lokal di Kabupaten Sumedang Jawa Barat 12(2):16–21.
- World Health Organization. 2009. System Thinking for Health System Strengthening. D. de Savigny dan T. Adam, ed. World Health Organization.
- Yao, H., L. Shen, Y. Tan, dan J. Hao. 2011. Simulating the impacts of policy scenarios on the sustainability performance of infrastructure projects. Autom. Constr. 20(8):1060–1069. doi:10.1016/j.autcon.2011.04.007.
- Zakiah, Z., A. Saleh, dan K. Matindas. 2017. Leadership Style and Communication Behavior of GPPT with Institutional Capacity of Community Animal Husbandry Schools in Muara Enim Regency. J. Penyul. 13(2):133. doi:10.25015/penyuluhan.v13i2.14977.
- Zanker, M., dan K. Štekerová. 2020. A Decade of System Dynamics Modelling for Tourism: Systematic Review. Halaman 881–893 in Proceedings of the

international scientific conference Hradec Economic Days 2020.