DAFTAR PUSTAKA

Allen, R.G., Pereira, L.S., Raes, D., Smith, M. 1998. *Crop Evapotranspiration: Guidelines for Computing Crop Water Requirements*. Irrigation and Drainage Paper 56. Food and Agriculture Organization of the United Nations, Rome.

Anggara, A., Aulia, Rahman., Alfatirta, Mufti. 2018. Rancang Bangun Sistem Pengatur Pengisian Air Galon Otomatis Berbasis Mikrokontroler Atmega328P. Jurnal Online Teknik Elektro. 3(2): 90-9.

Aris, Triwiyatno. 2011. Konsep Umum Sistem Kontrol. Buku Ajar Sistem Kontrol Analog. Undip

Ashari, Gurit., S. 2015. Sistem Pengaturan Suhu dan Kelembaban On Off dan Hysteresis Pada Model Smart Greenhouse Berbasis Mikrokontroler Arduino ATMEGA 2560 dan Sensor DHT22. Skirpsi. Fakultas Teknologi Pertanian. UGM. Yogyakarta

Auernhammer, H. 2001. *Precision Farming, The Environmental Challenge. Computers and Electronics in Agriculture*. Volume 30 Issues 1-3. Februari 2001.

Ayu, I.W., Prijono, S., Soemarno, S. 2013. Evaluasi Ketersediaan Air Tanah Lahan Kering di Kecamatan Unter Iwes, Sumbawa Besar. Jurnal PAL. Vol 4. No 1. Januari 2013: 18-25.

Budiharto, W. 2008. Membuat Sendiri Robot Cerdas (Edisi Revisi). Gramedia, Jakarta.

Bing, Z., Feng, J. H., & Xia, H. (2015). *Study on corn water saving irrigation decision-making model.* Advance Journal of Food Science and Technology, 9(1), 9–12. https://doi.org/10.19026/ajfst.9.1925

BPTP Sumut. 2004. Petunjuk Lapang Pengelolaan Tanaman Terpadu (PTT) Padi Sawah-Meningkatkan Hasil Panen dan Menghemat Saprodi. BPTP. Sumatera Utara.

Chapagain, T., Riseman, A., & Yamaji, E. (2011). *Assessment of System of Rice Intensification (SRI) and Conventional Practices under Organic and Inorganic Management in Japan. Rice Science*, 18(4), 311–320. https://doi.org/10.1016/S1672-6308(12)60010-9

Eka, D., Subekti, P., Teknik, F., & Universitas, E. (2015). Desain Sistem Pengendali Pintu Air Otomatis Menggunakan Logika *Fuzzy* Berbasis Ketinggian Permukaan Sungai Dan Komunikasi Frekuensi Radio Design

Automatic Sluice Control System Using *Fuzzy* Logic Based on the Level of the River and Radio Frequency Communica. *E-Proceeding of Engineering*, *2*(3), 7044–7049.

Firmansyah, A. (2020). Perancangan Automatic Weather Station Berbasis IoT dengan Fitur Swaenergi untuk Monitoring Kondisi Lingkungan. Universitas Gadjah Mada.

García M., Raes, D., Jacobsen, S-E., & Michel, T. (2007). *Agroclimatic constraints for rainfed agriculture the Bolivian Altiplano. J. Arid Environ*. 71. 109-121.

Hamidah, A., Nugroho, A. P., Masithoh, R. E., Murtiningrum. (2018). Perancangan sistem irigasi otomatis berbasis sensor hibrid lengas dan sensor lingkungan dengan logika *fuzzy* untuk menunjang pertanian presisi. *Universitas Gadjah Mada*

Hasanah, N. A. I., Setiawan, B. I., Arif, C., & Widodo, S. (2017). Muka Air Optimum Pada System Of Rice Intensification (SRI). *Jurnal Irigasi*, *12*(1), 55. https://doi.org/10.31028/ji.v12.i1.55-64

Johannes van der Kwas.2009. Thesis entitled "*Quantification of top soil moisture patterns"*. Nederlandse Geografische Studies / Netherlands Geographical Studies

Khuluqi, M.A., Nugroho, A. P., Masithoh, R. E., Rahayoe , S.(2020). Perancangan sistem pengendalian suhu dan kelembaban terintegrasi cloud pada penyimpanan produk hortikultura. *Universitas Gadjah Mada*

Kizito, F., Campbell, C. S., Campbell, G. S., Cobos, D. R., Teare, B. L., Carter, B., & Hopmans, J. W. (2008). *Frequency, electrical conductivity and temperature analysis of a low-cost capacitance soil moisture sensor*. Journal of Hydrology, 352(3–4), 367–378. https://doi.org/10.1016/j.jhydrol.2008.01.021

Krishnan, R. S., Julie, E. G., Robinson, Y. H., Raja, S., Kumar, R., Thong, P. H., & Son, L. H. (2020). *Fuzzy Logic based Smart Irrigation System using Internet of Things*. Journal of Cleaner Production, *252*, 119902. https://doi.org/10.1016/j.jclepro.2019.119902

Krishnan, P., B. Ramakrishnan, K. R. Reddy & V. R. Reddy. 2011. *High-temperature effects on rice growth, yield, and grain quality. In: Donald L. Sparks. Advances in Agronomy*. Academic Press. Burlington. 1-121

Malik, M.S dan Shukla J.P,. 2014. *Estimation Of Soil Moisture By Remote Sensing and Field Methods: A Review*. International Journal of Remote Sensing

and Geoseience Vol 3.

Manalu, L. P. (2019). Aplikasi Kontrol Digital Untuk Pemupukan Secara Variable Rate Pada Sistem Pertanian Presisi. *Jurnal Sains Dan Teknologi Indonesia*, *15*(3), 31–38. https://doi.org/10.29122/jsti.v15i3.3394

Nabi, F., Jamwal, S., Padmanbh, K. (2020). *Wireless sensor network in precision farming for forecasting and monitoring of apple disease: a survey*. Int. J. Inform. Technol.1–12.

Nazirah, L., & Sengli, J. (2015). Laila Nazirah dan B. Sengli J. Damanik (2015) J. Floratek 10: 54 - 60. *Jurnal Floratek*, *10*, 54–60.

Nugroho, A. P., Rahayu, D. E., Sutiarso, L., Murtiningrum, Fallah, M. A. F., & Okayasu, T. (2021). *Development of short-term evapotranspiration forecasting model using time series method for supporting the precision agriculture management in tropics*. *IOP Conference*

Nugroho, A. P., Sutiarso, L., & Okayasu, T. (2019). *Appropriate adaptation of precision agriculture technology in open field cultivation in tropics.* In IOP Conference Series: Earth and Environmental Science (Vol. 355, No. 1, p. 012028). *IOP Publishing.e*

Nugroho, A. P., Okayasu, T., Hoshi, T., Inoue, E., Hirai, Y., Mitsuoka, M., & Sutiarso, L. (2016). *Development of a remote environmental monitoring and control framework for tropical horticulture and verification of its validity under unstable network connection in rural area*. Computers and Electronics in Agriculture, 124, 325-339.

Ogata, K. 1997. Teknik Kontrol Otomatik Edisi 2 Jilid ½. Erlangga. Jakarta.

Ojha, T., Misra, S., Raghuwanshi, N.S. (2015). *Wireless sensor networks for agriculture: the state-of-the-art in practice and future challenges*. Comput. Electron. Agric. 118, 66–84.
https://doi.org/10.1016/j.compag.2015. 08.011

Pascual, V.J., & Wang, Y.M. (2017). *Impact of water management on rice varieties, yield, and water productivity under the System of Rice Intensification in Southern Taiwan*. Water, 9(1), 1-15.

Prayatna, Soni. (2007). Pertanian Organik: Mengapa Harus SRI (System of Rice Intensification). Dinas Pertanian Kabupaten Tasikmalaya, Kerjasama dengan KTNA Kabupaten Tasikmalaya.

Qian, L., Chen, X., Wang, X., Huang, S., & Luo, Y. (2020). *The effects of flood, drought, and flood followed by drought on yield in cotton*. *Agronomy*,

10(4),1–18. https://doi.org/10.3390/agronomy10040555

Qirom, Q., Niam, B., & Sungkar, M. S. (2019). Sistem Monitoring Pengairan Otomatis Dengan Metode Logika *Fuzzy*. *Infotekmesin*, *10*(1), 12–17. https://doi.org/10.35970/infotekmesin.v10i1.21

Raharjo, S. 2015. Cara Uji Independent Sample T-Test dan Interpretasi dengan SPSS. www.spssindonesia.com. Diakses pada hari Rabu, 10 Januari 2018.

Rathnayake, W.M.U.K., R.P. De Silva, N.D.K. Dayawansa. 2016. *Assessment of the suitability of temperature and relative humidity for rice cultivation in rainfed lowland paddy fields in Kurunegala District*. Tropical Agricultural Research 27: 370– 388.

Ritawati, Sri, N, Dewi F, dan Fitriani. 2015. *Changes in Soil Moisture Content and Yield of Several Peanut Varieties Arachis hypogaea L. were Given Drip Irrigation in Dry Land*. Sultan Ageng Tirtayasa University: Banten.

Rizal F., Alfiansyah, & Rizalihadi, M. (2014). Analisis perbandingan kebutuhan air irigasi tanaman padi metode konvensional dengan metode SRI organik. Jurnal Teknik Sipil, 3(4), 67-76.

Rodríguez, S. F. F., Enríquez, M. Á. U., Escalona, Y. P., Larramendi, L. R., Guevara Hernández, F., Árias Yero, I., Conci Rinaudo, M. C., Tamagno Sánchez, M. R., Árias Yero, I., Conci Rinaudo, M. C., Mercado Ollarzábal, Á. L., Travieso Torres, M., Tamayo López, L., Tamagno Sánchez, M. R., & Fonseca Flores, M. (2016). *Disturbances Caused By Floods In Three Physical Properties Of A Vertisol Soil In The East Region Of Cuba, Cultivated With Sugarcane* (Saccharum spp.). Holos, 4, 115. https://doi.org/10.15628/holos.2016.4658

Ross, T.J. (2010). *Fuzzy logic.* Wiley.

Sofiyuddin, H.A., L.M. Matrief, B.I. Setiawan, C. Arif. 2012. Evaluasi koefisien tanaman padi berdasarkan konsumsi air pada lahan sawah. *Jurnal Irigasi*, Vol. 7(2):127.

Subari, S., Joubert, M. D., Sofiyuddin, H. A., & Triyono, J. (2012). Pengaruh Perlakuan Pemberian Air Irigasi pada Budidaya SRI, PTT dan Konvensional terhadap Produktivitas Air. Jurnal Irigasi, 7(1), 28. https://doi.org/10.31028/ji.v7.i1.28-42

Suyanto. 2014. *Artificial Intelligence*. Penerbit Informatika, Bandung

Temesken, B., S. Eching, B. Davidoff dan K. Frame. 2005. *Comparison of Some Reference Evapotranspiration Equations for California*. Journal of Irrigation and Drainage Engineering 131 (1):73-84

Uphoff, 2002. *What Is The System Of Rice Intensification? in Asessments of the System of Rice Intensification.* Proceedings of an International Conference, Sanya, China. April 1-4. 2002. Cornell International Institute for Food Agriculture and Development, and China National Hybrid Rice Research and Development Center. Sebastian Rafaralahy

Veeramani P, Singh RD, Subrahmaniyan K. (2012). Study of Phyllochron – *System of Rice Intensification (SRI) technique*. Agricultural Science Research Journal. 2(6): 329-334.

Whelan, B., Taylor, J., 2013. *Precision Agriculture for Grain Production Systems,* Csiro Publishing, Clayton.