

## DAFTAR PUSTAKA

- [1] Peraturan Menteri Kesehatan Republik Indonesia, *Standar Baku Mutu Kesehatan Lingkungan dan Persyaratan Kesehatan Air Untuk Keperluan Higiene Sanitasi, Kolam Renang, Solus Per Aqua, dan Pemandian Umum*. Jakarta : Kementerian Kesehatan Republik Indonesia, 2017.
- [2] United Nations. “Water and Sanitation.” United Nations. <http://un.org> (accessed Nov. 1, 2019)
- [3] Badan Pusat Statistik. “Proporsi Populasi yang Memiliki Fasilitas Cuci Tangan Dengan Sabun dan Air Menurut Provinsi, 2016 – 2018.” Badan Pusat Statistik. <http://bps.go.id> (accessed Nov. 3, 2019)
- [4] Badan Pusat Statistik. “Proporsi Populasi yang Memiliki Akses Terhadap Layanan Sanitasi Layak dan Berkelaanjutan Menurut Provinsi, 2015 – 2018.” Badan Pusat Statistik. <http://bps.go.id> (accessed Nov. 3, 2019)
- [5] D. M. Hartono. “Sumber Air Baku Untuk Air Minum.” Sumber Air Baku Untuk Air Minum - Riset & Pengabdian Masyarakat FTUI. <http://research.eng.ui.ac.id/news/read/47/sumber-air-baku-untuk-air-minum> (accessed Nov. 5, 2019)
- [6] J. Bhardwaj, K. K. Gupta, and R. Gupta, “A Review of Emerging Trends on Water Quality Measurement Sensors”, in *2015 International Conference on Technologies for Sustainable Development*, Mumbai, India, 2015.
- [7] T. P. Lambrou, C. G. Panayiotou, and C. C. Anastasiou, “A Low-Cost System For Real Time Monitoring and Assessment of Portable Water Quality at Consumer Sites”, *IEEE Sensors Journal*, vol. 14, no. 8, pp. 2765-2772, Aug. 2014.
- [8] P. Damor and K. J. Sharma, “IoT Based Water Monitoring System : A Review”, *International Journal of Advance Engineering and Research Development*, vol. 4, no. 6, June 2017.
- [9] J. Bartram and R. Ballance, *Water Quality Monitoring – A Practical Guide to the Design and Implementation of Freshwater Quality Studies and Monitoring Programmes*. London, UK : E&FN Spon, 1996.
- [10] J. S. Hall, J. G. Szabo, S. Panguluri, and G. Meiners, *Distribution System Water Quality Monitoring: Sensor Technology Evaluation Methodology and Results*. Ohio : U.S. Environmental Protection Agency, EPA/600/R-09/076, 2009.
- [11] V. S. Kale, “Consequence of Temperature, pH, Turbidity, and Dissolved Oxygen Water Quality Parameters”, *International Advanced Research Journal in Science, Engineering and Technology*, vol. 3, no. 8, 2016.

- [12] World Health Organization, *Guidelines for Drinking-Water Quality – Fourth Edition*. Geneva : World Health Organization, 2017.
- [13] A. R. Moritz, F. C. Henrique, “Studies of Thermal Injuries: II The Relative Importance of Time and Surface Temperature in The Cautionof Cutaneous Burns”, *AM J Pathol*, vol 23, no. 5, pp. 695 – 720, 1947.
- [14] S. K. Priya, G. Shenbagalakshmi T. Revathi, “Design of Smart Sensor For Real Time Drinking Water Quality Monitoring and Contamination Detection in Water Distributed Mains”, *International Journal of Engingeering & Technology*, vol. 6, no. 5, pp. 35 – 40, 2017.
- [15] S. Choo-in, “The Relationship Between The Total Dissolved Solids and The Conductivity Value of Drinking Water, Surface Water, and Wastewater”, in *2019 IEEE First International Conference on Internet-of-Things Design and Implementation*, Amsterdam, Netherlands, 2019.
- [16] R. Islam *et al*, “Assesment of PH and Total Dissolved Substances (TDS) in The Commercially Available Bottled Drinking Water”, *IOSR Journal of Nursing and Health Science*, vol. 6, no. 5, pp. 35 – 40, 2017.
- [17] World Health Organization & International Programme on Chemical Safety, *Guidelines for Drinking-Water Quality Vol.2, Health Criteria and Other Supporting Information – Second Edition*. Geneva : World Health organization, 1996.
- [18] H. J. Zimmerman, *Fuzzy Set Theory – and Its Applications, Fourth Edition*. New York : Kluwer Academic Publisher, 2001.
- [19] G. J. Klir and Bo Yuan, *Fuzzy Sets and Fuzzy Logic : Theory and Applications*. New Jersey : Prentice Hall PTR, 1995.
- [20] M. Blej, M. Azizi, “Comparison of Mamdani-Type and Sugeno-Type Fuzzy Inference Systems for Fuzzy Real Time Scheduling”, *International Journal of Applied Engineering Research ISSN 0973-4562*, vol. 11, no. 22, pp. 11071 – 11075, 2016.
- [21] K. Mehran, “Takagi-Sugeno Fuzzy Modeling for Process Control”, *Newcastle University*, 2008.
- [22] Weiser, “The Computer For The 21st Century”, *Scientific American*, vol. 265, no. 3, pp. 66 – 75, Jan. 1991.
- [23] M. Friedewald and O. Raabe, “Ubiquitous Computing : An Overview of Technologu Impacts”, *Telematics and Informatics*, vol. 28, no. 2, pp. 55 – 65, 2011.
- [24] K. Ashton, “That ‘Internet of Things’ thing”, *IEEE RFID Journal*, vol. 22, pp. 97 – 114, 2009.

- [25] M. Ganzha, M. Paprzycki, W. Pawłoski, P. Szmeja, K. Wasilewska, “Semantic Technologies For The IoT – an Inter-IoT Persepective”, in *2016 IEEE First International Conference on Internet-of-Things Design and Implementation*, Berlin, Germany, 2016.
- [26] K. K. Patel, S. M. Patel, “Internet of Things-IoT : Definition, Characteristics, Architecture, Enabling Technologies, Application, and Future Challenges”, *International Journal of Engineering Science and Computing*, May 2016.
- [27] T. Sugapriyaa, S. Rakshaya, K. Ramyadevi, M. Ramya, P. G. Rashmi, “Smart Water Quality Monitoring System For Real Time Applications”, *International Journal of Pure and Applied Mathematics*, vol. 118, no. 20, pp. 1363 – 1369, 2018.
- [28] M. S. Sassi, F. G. Jedidi, L. C. Fourati, “A New Architecture For Cognitive Internet of Things and Big Data”, *Procedia Computer Science*, vol. 159, pp. 534 – 543, 2019.
- [29] S. Fang *et al*, “An Integrated System for Regional Environmental Monitoring and Management Based on Internet of Things”, *IEEE Transactions on Industrial Informatics*, vol. 10, no. 2, pp. 1596 – 1605, May 2014.
- [30] B. Nakhuva and T. Champaneria, “Study of Various Internet of Things Platforms”, *International Journal of Computer Science & Engineering Survey*, vol. 6, no. 6, Dec. 2015.
- [31] Blynk, “Blynk.” Blynk. <http://docs.blynk.cc> (accessed Nov. 6, 2019)
- [32] R. Wulandari, “Analisis QoS(Quality of Service) Pada Jaringan Internet (Studi Kasus : UPT Loka Uji Teknik Penambangan Jampang Kulon – LIPI)”, *Jurnal Teknik Informatika dan Sistem Informasi*, vol. 2, no. 2, pp. 162 – 172, Aug. 2016.
- [33] ETSI, “Telecommunications and Internet Protocol Harmonization Over Networks (TIPHON); General Aspects of Quality of Service (QoS)”, France, 1999.
- [34] S. Karastogianni, S. Sotiropoulos, S. T. Girousi, “pH: Principles and Measurements”, *The Encyclopedia of Food and Health*, vol. 4, pp. 333 – 338, Dec. 2016
- [35] Analog Devices, Norwood, MA, USA. *Circuit Notes CN-0411*. (2018). Accessed: May. 4, 2020. [Online]. Available: <https://www.analog.com/media/en/reference-design-documentation/references-designs/CN0411.pdf>
- [36] A. F. Rusydi “Correlation Between Conductivity and Total Dissolved Solid in Various Type of Water: A Review”, in *IOP Conference Series: Earth and Environmental Science*, 2018

- [37] A. Bin Omar and M. Bin MatJafri, “Turbidimeter Design and Analysis: A Review on Optical Fiber Sensors for the Measurement of Water Turbidity”, *Sensors*, vol. 9, no. 10, pp. 8311 – 8335, Oct. 2009.
- [38] G. R. Delpierre, B. T. Sewell, “Temperature and Molecular Motion”, 2002.
- [39] W. Kester, “Temperature Sensors,” in *Practical Design Techniques for Sensor Signal Conditioning*, Norwood, Massachusetts: Analog Devices, 1999.