

## DAFTAR PUSTAKA

- Al-Ali, A. R., Ragini Gupta, dan Ahmad Al Nabulsi, 2018, *Cyber Physical System Role in Manufacturing Technologies, AIP Conferences Proceedings 1957*, <https://doi.org/10.1063/1.5034337>.
- Anonim, 2014, *History*, Available at: <http://gazebosim.org/>, diakses 28 Mei 2021.
- Anonim, 2017, *rospy*, Available at: <http://wiki.ros.org/rospy>, diakses 9 Mei 2022.
- Anonim, 2018, *smach*, Available at: <http://wiki.ros.org/smach>, diakses 9 Mei 2022.
- Anwar, Arsalan, 2021, *Part1: Getting Started with ROS – Overview, Installation, and ROS Computational Graph Model*, Available at: <https://medium.com/analytics-vidhya/getting-started-with-ros-overview-installation-and-ros-computational-graph-model-e94d7a16187f>, diakses 15 juni 2022.
- Becue, Adrien, dkk., 2020, *A New Concept of Digital Twin Supporting Optimization and Resilience of Factories of the Future, applied science* 10(13):4482. <https://doi.org/10.3390/app10134482>.
- Boren, Jonathan, dan Steven Cousin, 2010, *The SMACH High-Level-Executive, IEEE Robotics and Automations Magazine* 17(4):18-20, <https://doi.org/10.1109/MRA.2010.938836>.
- Cordero, Alejandro Hernandez, dkk., 2021, Tutorial: Using Gazebo plugins with ROS, Available at: [https://classic.gazebosim.org/tutorials?tut=ros\\_gzplugins](https://classic.gazebosim.org/tutorials?tut=ros_gzplugins), diakses 9 Mei 2022.
- Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Gadjah Mada, 2009, Panduan Penulisan Tugas Akhir, Yogyakarta.
- Gillis, Alexandre S., 2020, *What is the internet of things (IoT)?*, Available at: <https://www.techtarget.com/iotagenda/definition/Internet-of-Things-IoT>, diakses 15 Juni 2022.
- Jiang, Jhehn-Ruey, 2018, *An Improved Cyber-Physical Systems Architecture for Industri 4.0 Smart Factories, Advances in Mechanical Engineering* 10(6):1-15, <https://doi.org/10.1177/1687814018784192>.
- Karthika, R.A., Shaik Rahamtula, dan Yalavarthi Anusha, 2018, *Internet of things for industrial monitoring and control applications, International Journal of Engineering & Technology* 7(2.21): 280-282.
- Khandelwal, Piyush, dkk., 2013, Available at: <https://github.com/ros->

simulation/gazebo\_ros\_pkgs/blob/noetic-devel/gazebo\_plugins/src/gazebo\_ros\_planar\_move.cpp, diakses 9 Mei 2022.

Koenig, Nathan, dan Andrew Howard, 2004, *Design and Use Paradigms for Gazebo, An Open-Source Multi-Robot Simulator, International Conference on Intelligent Robots and Systems*, Available at: <https://davidwatkinsvalls.com/files/papers/gazebo.pdf>.

Liu, Chengliang, Liang Gong, dan Wei Zang, 2020, *Manipulating Complex Robot Behavior for Autonomous and Continuous Operations, IntechOpen*, <https://doi.org/10.5772/intechopen.92254>.

Martinez, Aaron, dan Enrique Fernandez, 2013, *Learning ROS for Robotics Programming, PactPublishing Ltd.*, Birmingham B3 2PB, UK, ISBN: 978-1-78216-144-8.

Mofidul, Bin Raihan, Shahadath Hossain Sabbir, Amit Kumer Podder, 2019, *Design and Implementation of Remote Controlling and Monitoring System for Automatic PLC Based Packaging Industry, 1st International Conference on Advances in Science, Engineering and Robotics Technology 2019 (ICASERT 2019)*, Available at: <https://researchgate.net/publication/334450935>.

Moore, Karleigh, dan Dishant Gupta, 2018, *Finite State Machine*, Available at: <https://brilliant.org/wiki/finite-state-machines/>, diakses 15 Juni 2022.

Pushpakala, Kalva, Kalva Gopinath, 2017, *A Real Time Cyber Physical System for Monitoring Environmental Status, International Journal of Electrical, Electronics and Data Communication*, ISSN: 2320-2084.

Pyo, Yoonseok, dkk., 2017, *ROS Robot Programming, ROBOTIS Co., Ltd., Republic of Korea*, ISBN: 979-11-962307-1-5.

RESLab Sistem Komputer UNAND, 2018, Mengenal MQTT Protokol untuk IoT, Available at: [http://reslab.sk.fti.unand.ac.id/index.php?option=com\\_k2&view=item&id=229:mengenal-mqtt-protokol-untuk-iot&Itemid=303](http://reslab.sk.fti.unand.ac.id/index.php?option=com_k2&view=item&id=229:mengenal-mqtt-protokol-untuk-iot&Itemid=303), diakses 1 Mei 2021.

Swati, Thimmapuram, K. Raghavendra R., 2019, *Industrial Process Monitoring System Using Esp32*, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878.

Thomas, Dirk, 2013, *roslib*, Available at: <http://wiki.ros.org/roslib>, diakses 9 Mei 2022.

Vadluri, Thirupathi, dan Sagar, K., 2018, *Implementation of Home Automation System using MQTT Protocol and ESP32, International Journal of*

*Engineering and Advanced Technology (IJEAT)* 8(2), ISSN: 2249-8958,  
Available at: <https://researchgate.net/publication/334657137>.

Vuksanović, D., J. Ugarak, dan D. Korčok, 2016, *INDUSTRY 4.0: THE FUTURE CONCEPTS AND NEW VISIONS OF FACTORY OF THE FUTURE DEVELOPMENT*, *Sinteza 2016 – International Scientific Conference on ICT and E-Business and Related Research*, <https://doi.org/10.15308/Sinteza-2016-293-298>.