

DAFTAR PUSTAKA

- Bangal, N. S., 2013. Design and Performance of LQR and LQR based Fuzzy Controller for Double Inverted Pendulum System. *Journal of Image and Graphics*, September.
- Bingul, S. K. & Z., 2006. *Robot Kinematics: Forward and Inverse kinematics*. s.l.:s.n.
- Brandão, M., Hashimoto, K., Santos-Victor, J. & Takanishi, A., 2016. Footstep Planning for Slippery and Slanted Terrain Using Human-Inspired Models. *IEEE Transactions on Robotics*, 32(4), pp. 868-879.
- Caron, S., Kheddar, A. & Tempier, O., 2019. Stair Climbing Stabilization of the HRP-4 Humanoid Robot using Whole-body Admittance Control. *2019 International Conference on Robotics and Automation (ICRA)*.
- Dharmawan, A., Habiba, C. & Auzan, M., 2019. Walking Stability Control System on Humanoid When Turning Based on LQR Method. *INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 8*.
- Fuadin, M. R. & Dharmawan, A., 2018. Sistem Kendali Robot Humanoid Ketika Berdiri dengan Satu Kaki.
- Fu, C. & Chen, K., 2008. Gait Synthesis and Sensory Control of Stair Climbing for a Humanoid Robot. *IEEE Transactions on Industrial Electronics*, 55(5), pp. 2111-2120.
- Hibbeler, R., 2016. *Dynamics*. New Jersey: Pearson.
- Huayan, Z. et al., 2019. Target Location and Gait Planning for Humanoid Robot Climbing Stairs. *2019 IEEE 4th International Conference on Advanced Robotics and Mechatronics (ICARM)*.
- Jazar, R. N., 2010. *Theory of Applied Robotics*. New York: Springer.
- Kaewlek, N. & Maneewarn, T., 2010. Inclined plane walking compensation for a humanoid robot. *ICCAS 2010*.
- Kajita, S., Hirukawa, H., Harada, K. & Yokoi, K., 2014. *Introduction to Humanoid Robotics*. Berlin Heidelberg: Springer.
- Kasaei, M., Lau, N. & Pereira, A., 2018. An optimal closed-loop framework to develop stable walking for humanoid robot. *2018 IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC)*.
- Kasaei, M., Nuno, L. & Pereira, A., 2018. An optimal closed-loop framework to develop stable walking for humanoid robot.
- Kuo, C.-H., Zal1, F. & Wu, S.-L., 2016. Development of Fuzzy Logic Controllers for Controlling Bipedal Robot Locomotion on Uneven Terrains with IMU Feedbacks. *Indian Journal of Science and Technology*.

- Malhotra, A. & Vasanth, S., 2019. Application Of Flexiforce Sensor In Dynamic Balancing For *Humanoid Robot*. *2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON)*.
- Mason, S., Righetti, L. & Schaal, S., 2014. Full Dynamics LQR Control of a *Humanoid Robot* An Experimental Study on Balancing and Squatting. *14th IEEE-RAS International Conference on Humanoid Robots (Humanoids)*, pp. 18-20.
- Mason, S., Rotella, N., Schaal, S. & Righetti, L., 2016. Balancing and Walking Using Full Dynamics LQR Control With Contact Constraints. *IEEE-RAS 16th International Conference on*.
- Ogata, K., 2010. *Modern Control Engineering*. s.l.:Pearson.
- Paetzel, M. & Hofer, L., 2019. The RoboCup *Humanoid League* on the Road to 2050 [Competitions]. *IEEE Robotics & Automation Magazine (Volume: 26, Issue: 4, Dec. 2019)*, pp. 14-16.
- Saputra, A. A., Sulistijono, I. A. & Khalilullah, A. S., 2014. Combining Pose Control and Angular Velocity Control for Motion Balance of *Humanoid Robot Soccer EROS*. *IEEE Symposium on Robotic Intelligence in Informationally Structured Space (RiiSS)*.
- Sari, W. P., Dewanto, R. S. & Pramadihanto, D., 2019. Kinematic and Dynamic Modelling of "T-FLoW" *Humanoid Robot* for Ascending and Descending Stair. *2019 International Electronics Symposium (IES)*.
- Sivanandam, S. N., Sumathi, S. & Deepa, S. N., 2007. *Introduction to Fuzzy Logic using MATLAB*. New York: Springer.
- Starlino, 2009. A Guide To using IMU (Accelerometer and Gyroscope Devices) in Embedded Applications.
- Sung, C. H., Kagawa, T. & Uno, Y., 2011. Planning of Kicking Motion with Via-Point Representation for *Humanoid Robots*. *The 8th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI)*, pp. 23-26.
- Sun, Y., Wang, C., Jia, W. & Ma, S., 2019. Practical Kicking Motion Generation Method for NAO. *IEEE International Conference on Mechatronics and Automation (ICMA)*.
- Wang, J., Liang, Z., Zhou, Z. & Zhang, Y., 2016. Kicking Motion Design of *Humanoid Robots* Using Gradual Accumulation Learning Method Based on Q-learning. *2016 Chinese Control and Decision Conference (CCDC)*, pp. 5274-5279.
- Widodo, N. S., Arsadiando, W., Rahman, A. & Hatta, M. I. F., 2017. Parameterized Kick Engine For R-SCUAD Robot. *4th International Conference on Electrical Engineering, Computer Science and Informatics (EECSI)*.
- Wise, E. L. & K. A., 2013. *Robust and Adaptive Control, Advanced Textbooks in Control and Signal Processing*. London: Springer.
- Yoo, S. M., Hwang, S. W. & Kim, D. H. P. J. H., 2018. Biped Robot Walking on Uneven Terrain Using Impedance Control and Terrain Recognition Algorithm.