

DAFTAR PUSTAKA

- Adarsh, S, S Kaleemuddin, Mohamed, Bose, Dinesh, and KI Ramachandran. 2016. *Performance Comparison of Infrared and Ultrasonic Sensors for Obstacles of Different Materials in Vehicle/Robot Navigation Applications*. Vol. 149, in *IOP Conference Series: Materials Science and Engineering*, 012141. IOP publishing.
- Bai, Geng, Yufeng Ge, Waseem Hussain, P Stephen Baenziger, and George Graef. 2016. "A Multi-sensor System for High Throughput Field Phenotyping in Soybean and Wheat Breeding." *Computers and Electronics in Agriculture* (Elsevier) 128: 181-192.
- Chowdhry, Sandeep. 2022. "Optimisation of Distance Measurement in Autonomous Vehicle using Ultrasonic and LIDAR Sensors." *International Research Journal of Engineering and Technology (IRJET)* 9 (5): 2072.
- Duong, Pham Duy, and Young Soo Suh. 2015. "Foot Pose Estimation Using an Inertial Sensor Unit and Two Distance Sensors." *Sensors* (MDPI) 15: 15888-15902.
- Fauzi, Edwin Maulana, Moch Bilal Zaenal Asyikin, and Ivan Yuda Prasetya. 2018. *Analisa dan Solusi Noise Sensor VL53L0X pada Berbagai Kondisi Cahaya*. Vol. 9, in *Prosiding Industrial Research Workshop and National Seminar*, 483-487.
- Gageik, Nils, Paul Benz, and Sergio Montenegro. 2015. "Obstacle Detection and Collision Avoidance for a UAV With Complementary Low-Cost Sensors." *IEEE Access* 3: 599-609.
- Hoomod, Haider Khadhim, and Sadeem Marouf M Al-Chalabi. 2017. "Objects detection and angles effectiveness by ultrasonic sensors HC-SR04." *IJSR* 6: 6.
- Huda, Akbar Sugih Miftahul, Tjut Awaliyah Zuraiyah, and Fajar Lukmanul Hakim. 2019. "Prototipe Alat Pengukur Jarak dan Sudut Kemiringan Digital Menggunakan Sensor Ultrasonik dan Accelerometer Berbasis Arduino Nano." *Bina Insani ICT Journal* 6: 75-84.
- Ishihara, Manabu, Makoto Shiina, and Shin-nosuke Suzuki. 2009. "Evaluation of Method of Measuring Distance Between Object and Walls Using Ultrasonic Sensors." *Journal of Asian Electric Vehicles* (Asian Electric Vehicle Society) 7: 1207-1211.
- Kaladewa, Yudhistira, and Kukuh Aris Santoso. 2021. "Implementasi Sensor Kemiringan Sudut untuk Alat Bantu (Grab) Gantry Luffing Crane (GLC)." *Jurnal Kajian Teknik Elektro* 6: 62-69.
- Kamal, Azmyin Md, Salman Habib Hemel, and Mohsan Uddin Ahmad. 2019. "Comparison of Linear Displacement Measurements Between a Mems Accelerometer and HC-SR04 Low-cost Ultrasonic Sensor." In *2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT)*, 1-6. IEEE.
- Kheirati, Afarin, and Amir Golroo. 2020. "Low-cost Infrared-based Pavement Roughness Data Acquisition For Low Volume Roads." *Automation in Construction* 119: 103363.
- Kim, Eung-su, and Soon-Yong Park. 2019. "Extrinsic Calibration Between Camera and LiDAR Sensors by Matching Multiple 3D Planes." *Sensors* (MDPI) 20: 52.
- Komarizadehasl, Seyedmilad, Behnam Mobaraki, Haiying Ma, Jose-Antonio Lozano-Galant, and Jose Turmo. 2022. "Low-cost Sensors Accuracy Study and Enhancement Strategy." *Applied Sciences* (MDPI) 12: 3186.
- Komarizadehasl, Seyedmilad, Behnam Mobaraki, Jose Antonio Lozano-Galant, and Jose Turmo. 2020. "Detailed Evaluation of Low-Cost Ranging Sensors for Structural Health Monitoring Applications." In *Proceedings of the International Conference*

of Recent Trends in Geotechnical and Geo-Environmental Engineering and Education, RTCEE/RTGEE, 8-12.

- Komarizadehasl, Seyedmilad, Behnam Mobaraki, Jose Lozano Galant, Antonio, and Jose Turmo Coderque. 2020. "Practical Application of Low-Cost Sensors for Static Tests." In *Current Topics and Trends on Durability of Building Materials and Components: proceedings of the XV edition of the International Conference on Durability of Building Materials and Components (DBMC 2020), Barcelona, Spain, 20-23 October 2020*, 1711-1718.
- Kudic, Haris, and Dejan Jokic. 2023. "Highly Reliable Time-of-Flight L-Shaped Gesture Recognition System." *European Journal of Engineering and Technology Research* 8: 69-72.
- Kumar, G Ajay, Jin Hee Lee, Jongrak Hwang, Jaehyeong Park, Sung Hoon Youn, and Soon Kwon. 2020. "LiDAR and Camera Fusion Approach for Object Distance Estimation in Self-driving Vehicles." *Symmetry* (MDPI) 12: 324.
- Li, Zongkang, John H Marsh, and Lianping Hou. 2020. "High Precision Laser Ranging Based on STM32 Microcontroller." In *2020 International Conference on UK-China Emerging Technologies (UCET)*, 1-4. IEEE.
- Maksymova, Ievgeniia, Christian Steger, and Norbert Druml. 2018. *Review of LiDAR Sensor Data Acquisition and Compression for Automotive Applications*. Vol. 2, in *Proceedings*, 852. MDPI.
- Muliadi, Al Imran, and Muh Rasul. 2020. "Pengembangan Tempat Sampah Pintar Menggunakan ESP32." *Jurnal Media Elektrik* 17: 73-79.
- Muzayyanah, Esti, Megananda Megananda, Hervina Puspita Darmayanti, and Zihan Ika Priana. 2021. "Development of Digital Distance Measurement Instrument Based on Arduino Uno for Physics Practicum." *Impulse: Journal of Research and Innovation in Physics Education* 1: 80-88.
- Ningtyas, Sekar. 2020. *Niagahoster*. May. Accessed July 2023. <https://www.niagahoster.co.id/blog/cara-menggunakan-ifttt/>.
- Nur, Zajilah CA. 2010. "Penggunaan Mikrokontroler Sebagai Pendeteksi Posisi Dengan Menggunakan Sinyal GSM." *Jurnal Informatika* 4: 434.
- Poquita-Du, Rosa Celia, Ian Peter Morgia Du, and Peter A Todd. 2023. "EmerSense: A low-cost multiparameter logger to monitor occurrence and duration of emersion events within intertidal zones." *HardwareX* (Elsevier) 14: 00410.
- Santoso, Iman Hedi, and Arif Indra Irawan. 2022. "Analisis Perbandingan Kinerja Sensor Jarak HC-SR04 dan GP2Y0A21YK Dengan Menggunakan Thingspeak dan Wireshark." *Jurnal Rekayasa Elektrika* 18.
- Sirenden, Bernadus Herdi. 2019. "Data Fusion Method Based on Adaptive Kalman Filtering." *Makara Journal of Technology* 23: 6.
- Smaili, Fidan, Plotdon Beqiri, and Rinor Lubovci. 2021. "Errors in Distance and Angle Measurements of Ultrasonic Sensor HC-SR04." *UBT International Conference* 298.
- Tsujia, Satoshi, and Teruhiko Kohamaa. 2019. "Development of Omni-Directional Proximity Sensor for Drone." In *roceedings of the 7th IIAE International Conference on Intelligent Systems and Image Processing 2019*, 311-315.
- Werries, Adam, and John Dolan. 2016. "Adaptive Kalman Filtering Methods for Low-cost GPS." *INS Localization for Autonomous Vehicles* (Carnegie-Mellon University).
- Widayaka, Parama Diptya, Sirojul Hadi, Radimas Putra Muhammad Davi Labib, and Khairan Marzuki. 2022. "Komparasi Performansi Sensor sebagai Perangkat Pengukuran Ketinggian Air pada Sistem Notifikasi Banjir." *Jurnal Bumigora Information Technology (BITe)* 4: 37-48.

- Xiao, Fuyuan. 2019. "Multi-sensor Data Fusion Based on The Belief Divergence Measure of Evidences and The Belief Entropy." *Information Fusion* (Elsevier) 46: 23-32.
- Yuyang, Jing. 2021. "Design of Ultrasonic Range Finder Based on STM32 Single Chip Computer." In *2021 2nd International Conference on Electronics, Communications and Information Technology (CECIT)*, 482-486. IEEE.