

# Jurnal Teknokes

Volume 17, Issue 1, March 2024

## List of Content

All articles in this issue include authors from one universities in **INDONESIA** (Department of Medical Electronics Technology, Poltekkes Kemenkes Surabaya;) and seven universities from other countries (Institute of Medical Engineering and Mechatronics, Ulm University of Applied Sciences, **GERMANY**; Department of Ophthalmology, Otorhinolaryngology, and Head and Neck Surgery – Ribeirão Preto Medical School, University of São Paulo–Brazil. Campus Universitario, **BRAZIL**; Department of Electronics & Communication Engineering, Nepal Engineering College Pokhara University, Bhaktapur, **NEPAL**; Department of Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, **INDIA**; Faculty of Information Technology, Angiang University, Long Xuyen city, An Giang province, **VIETNAM**; Faculty of Integrated Technologies, Universiti Brunei Darussalam, Bandar Seri Begawan, **BRUNEI DARUSSALAM**; Department of Computer Engineering, Azerbaijan State Oil and Industry University, Baku, **AZERBAIJAN**).

- Fast and Mobile Cataract Detection by Applying Line Laser Eye Illumination**  
*Nicole Fehler, Robin Haag, André Messias, Martin Hessling* 1-7
- Automated Environmental Stewardship: A Ribbon-Cutting Robot with Machine Vision for Sustainable Operation**  
*Biplov Paneru, Bishwash Paneru, Ramhari Poudyal, Krishna Bikram Shah, Khem Narayan Poudyal, Yam Krishna Poudel* 8-19
- Design of Incu Analyzer for IoT-Based Baby Incubator Calibration**  
*Salsabilla Kusuma Maulani, Syaifudin Syaifudin, Anita Miftahul Maghfiroh, Levana Forra Wakidi* 20–28
- Fuzzy Logic Temperature Control on Baby Incubator Transport Battery Efficiency**  
*Yohanes Cristomus Co'o, I.D.G. Hari Wisana, Abd Kholiq* 29–36
- Design of Ambulatory Blood Pressure Monitoring for IOT-Based Hypertension Patients**  
*Alvy Noorlatifa Sari, Priyambada C. N., Muhammad Ridha Mak'ruf, Her Gumiwang Ariswati, Moch. Prastawa Assalim T.P. T.P., Anita Miftahul Maghfiroh* 37-42
- PID Temperature Control of Baby Incubator Transport Battery Efficiency**  
*Angga Vidaryanto, I.D.G Hari Wisana, Abd Kholiq, Riqqah Dwi Dewiningrum* 43-47
- Fuzzy Logic Method to Control Evenly Distributed and Stable Waterbath Temperature with Four Heaters**  
*Ripqi Kurniawan, Syaifudin Syaifudin, Lamidi Lamidi, Shubhrojit Misra* 48–56
- Non-contact Respiration Monitoring Using Bio- Radar Sensor Based on Linear Regression Classifier**  
*Muhamad Fahrudin Y., Syaifudin Syaifudin, Bambang Guruh Irianto, Phuoc-Hai Huynh* 57-62
- Improvement of Non-invasive Blood Sugar and Cholesterol Meter with IoT Technology**  
*Ahmad Faisal Islamudin, Triana Rahmawati, Triwiyanto Triwiyanto, Vugar Abudlayev* 63-68

**Exploration of Digital Filter on Cardiac Monitor through Carotid Pulse and PCG (Phonocardiogram)**

*Bahrurrizki Ramadhan, Endro Yulianto, Sari Lutfiyah, Wahyu Caesarendra*

69-76

**The Enhancing Accuracy in Mycobacterium Tuberculosis Counting on Acid-Fast Bacteria Sputum through Microscope Camera and Image Processing with Thresholding Method**

*Achmad Agus Sholichuddin, M. Prastawa Assalim T.P*

79-83