Aplikasi Android untuk Estimasi Masak Fisiologis Benih Padi Berdasarkan Akumulasi Panas (***Android App for Estimation of Physiological of Rice Seeds Based on Heat Accumulation).***

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## *ABSTRACT*

*Rice (Oryza Sativa L.) is a leading commodity for cultivation in Indonesia. Unfortunately, rice yields have decreased every year. One of the factors causing the decrease in yield is the use of seeds that do not pay attention to seed quality. Seed quality is determined by the physiological maturity of rice seeds. To facilitate the retrieval of temperature data as input for heat accumulation that will be used in forecasting the physiological ripening time of rice seeds, an IoT is created that is connected to an accurate android application regarding the physiological ripening time of rice seeds. IoT is calibrated with a mini hygrometer for comparison. Forecasting is done using the Trend Linear method by entering daily parameter data for at least 2 days. Forecasting results depend on the type of rice variety used, planting time and observation time.*

***Key words:*** *Heat Unit Accumulation, Trend Linear, IoT, Android Application*