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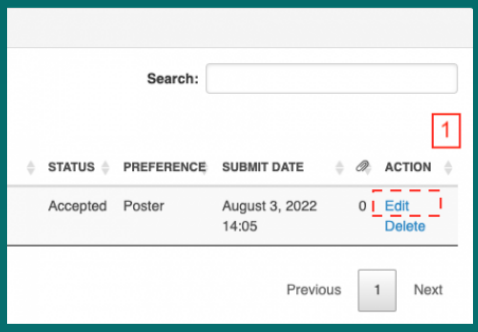

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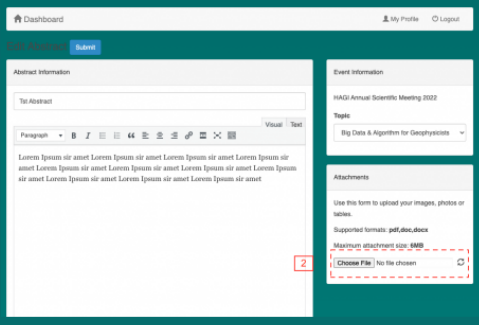

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Abstract Information

Title SPUN PILE IDENTIFICATION OF BUILDINGS USING THE GROUND PENETRATING RADAR METHOD

Description

Ground Penetrating Radar (GPR) is a nondestructive geophysical exploration method that records the response of the subsurface based on reflected electromagnetic waves. In this study, the GPR method was used for geotechnical studies, especially in identifying the depth of the spun pile in the gas engine power plant (PLTMG) Project, Baloi, Batam Island. This research is useful as basic information in evaluating the subsurface condition as the PLTMG is planned to be builded on a former diesel power plant location. The location of the GPR measurement point is carried out on the floor surface just above the spun pile based on information on the former building structure plan, using the GPR AKULA 9000C with a frequency of 100 MHz made by Geoscanner. The results of the analysis of GPR measurements provide information on the depth of the top and bottom spun piles. The top depth of the spun pile ranges from 2 meters and the bottom depth of 20 meters.

Keywords Ground penetrating radar, spun pile, electromagnetic, Geotechnical

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Event Information

Event HAGI Annual Scientific Meeting 2022

Topic Infrastructure & Engineering Geophysics

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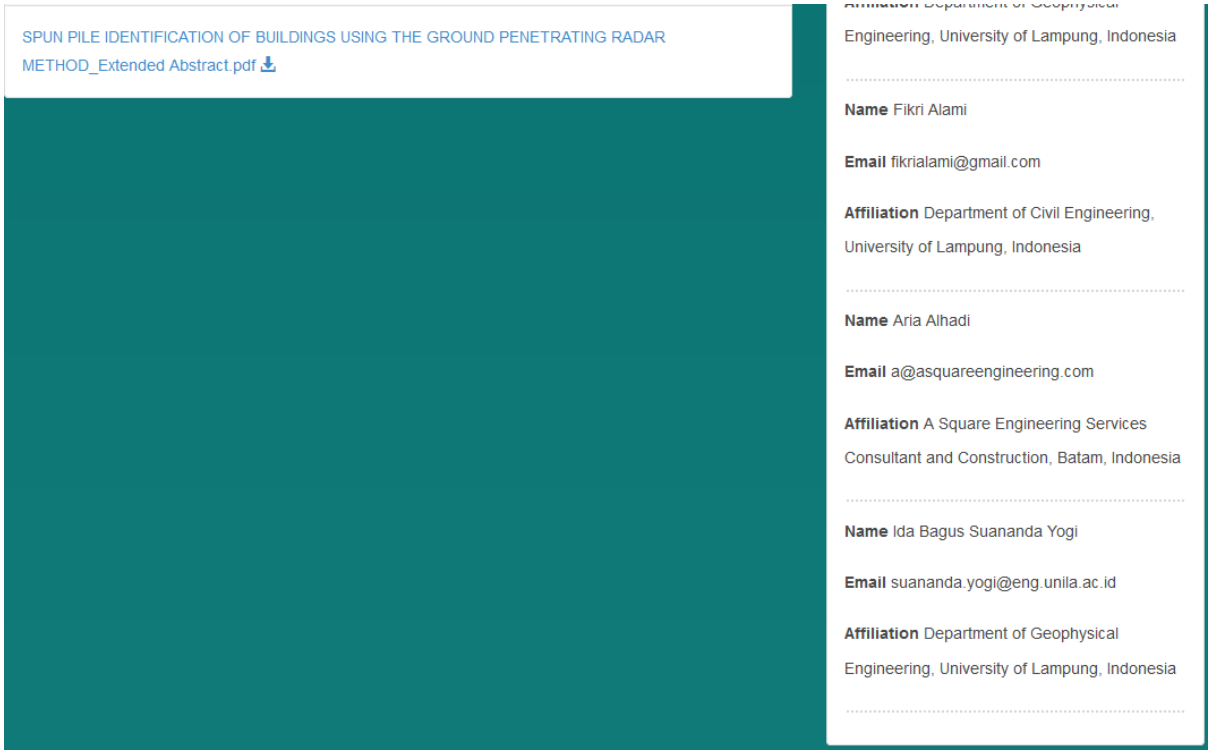

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