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AUTOMATED LOW-COST PHOTOGRAMMETRY FOR FLE MONITORING

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Abstract. Structural monitoring requires instruments which can provide high possible measurements at good temporal resolution and rapid processing speeds. Long-terriare regarded as two of the most challenging subjects in monitoring engineering structure engineering is generally considered to be labourintensive and financially expensive arrange the necessary human resources, transportation and equipment mainten structure monitoring, it is of paramount importance that any monitoring equipments sampling. Low cost, automated, photogrammetric techniques therefore have the pot monitoring non-rigid structures.

This research aims to provide a photogrammetric solution for long-term flexible still automated approach was achieved using low-cost imaging devices (mobile phor acquisition stations and substantially reduce the equipment costs. A self-programme to deal with the hardware-software integration and system operation. In order to experiment was undertaken. Different network were used to determine the best configuration. A large quantity of image data was a four mobile phone cameras respectively. These image data were processed using calculate the final results for the system evaluation.

Conference Paper (PDF, 4644 KB)

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