



## Digitalization of Objects by Photogrammetry

By Zemichael, Yodahe

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Development of a Mechatronic System for the Digitalization of Objects by Photogrammetry | This work is part of the completion of a project centered on the Development of a Mechatronic System integrating a photogrammetric platform, a mechanical framework as well as a computer vision platform working on the interpretation of the acquired data using various artificial vision technics into a three-dimensional 'point-cloud' format. It involves acquiring two pairs of synchronized images from stereoscopic CCD cameras mounted on a custom designed mechanical system that has a rotating base to mount the target object. After the image data is fed into the computer in real-time, it is taken in as an array of two-dimensional images of the target captured from rotating angles. And it is the final objective of the project work to interpret this data into a three-dimensional representation. The work has found its applications in the Humanoid Robotics areas as well as novel prototyping techniques. | Format: Paperback | Language/Sprache: english | 352 gr | 224 pp.



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