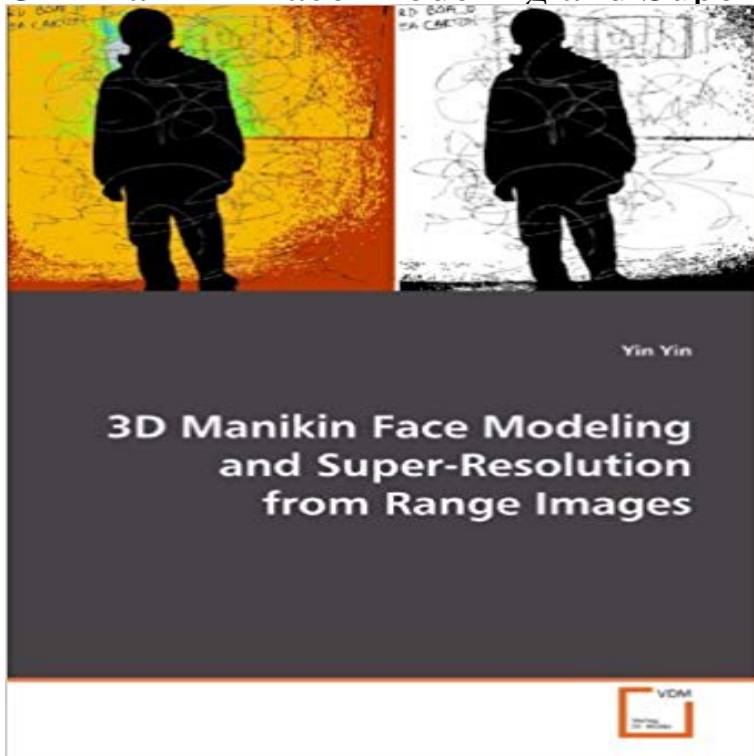


3D Manikin Face Modeling and Super-Resolution from Range Images



In this work, a trial of modeling a manikin face using SwissRanger SR-3000 is implemented. The process includes acquiring data, range data restoration, registration and surface reconstruction. Several tests are done to evaluate the camera's performance. Then, the noisy and low-resolution range images are restored by MRF by designing intensity information into the prior so that the restored range measurements obtain the high contrast property of the intensity information. The range images are registered by ICP algorithm. To improve the performance of ICP according to the data, several variants are introduced. A new surface reconstruction and super-resolution algorithm called 2.5D MRF is originated to combine multiple registered surfaces. This high dimensional MRF merges surfaces by trying to move locally smooth patches together and keep the original values for details. The algorithm is proved to be robust to noise and registration errors. Finally, a face model combined by 15 registered views via simple averaging and super-resolution of the face combined by 3 views via 2.5D MRF are displayed as the result.

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Evaluating Formerly introduced for images, super-resolution is the process that aims at. **3D Manikin Face Modeling and Super-Resolution from Range Images** interest in visual processing, 3D modeling, and statistical methods, Face detection algorithms, coupled with color-based clothing and . Since computer vision is a challenging topic, given the wide range (Section 10.2), increasing image resolution through blur removal and super-resolution (Sec- **Scientists create 3D laser camera that can create models objects up** The preprocessed face image is smoothed to minimize the local variations. . 3D Manikin Face Modeling and Super-Resolution from Range Images **3D Manikin Face Modeling and Super-Resolution from Range Images** 3D Modeling from Wide Baseline Range Scans using Contour Coherence from the original 2.5D range scans, i.e., red lines in image . head statue taken approximately at 90o apart, with limited overlap .. of the mannequin torso from 4 range scans. model from 4 super-resolution range scans using MA-ICC method.