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this paper, we present
an algorithm capable
to perform a fine and
accurate 3D surface
reconstruction of the
environment from

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depth sensors. From the statistics of the input point cloud sampled into a voxel grid, local approximations of the surface are performed using an adaptive neighborhood capable to cope with the

3D Surface Reconstruction from Voxel-based Lidar Data

The methods used to digitize and reconstruct

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produce state of the
art 3D surface
reconstructions with
high fidelity, resolution
and detail. Method

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Given a set of input masked 2D images, our goal is to infer the following three unknowns: (i) the geometry of the scene, represented as a zero level-set of an MLP f ; (ii) the light and reflectance properties of the scene; and (iii) the unknown camera parameters.

Multiview Neural Surface Reconstruction with

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High-quality reconstruction of geometry A core goal of our work is to capture detailed (or dense) 3D models of the real scene. Many SLAM systems (e.g. [15]) focus on real-time tracking, using sparse maps for localization rather than reconstruction. Others have used simple point-based representations (such as surfels [12] or

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aligned point-

KinectFusion: Real-time 3D

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The 3D reconstruction of objects is a generally scientific problem and core technology of a wide variety of fields, such as Computer Aided Geometric Design (CAGD), computer graphics, computer animation, computer

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vision, medical
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imaging, computational
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science, virtual reality,
digital media, etc.

Concepts And **3D reconstruction - Wikipedia**

In this work we address
the challenging
problem of multiview
3D surface recon-
struction. We introduce
a neural network
architecture that
simultaneously learns
the unknown
geometry, camera

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parameters, and a neural renderer that approximates the light reflected from the surface towards the camera. The geometry is represented

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Delaunay triangulation
is.

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Reconstruction of a 3D shape from a single 2D image is a classical computer vision problem, whose difficulty stems from the inherent ambiguity of recovering occluded or only partially observed surfaces.

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**Front2Back: Single
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The recent advent of increasingly affordable and powerful 3D scanning devices capable of capturing high resolution range data about real-world objects and environments has fueled research into...

(PDF) Survey on 3D
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We investigate the problem of learning to generate 3D parametric surface representations for novel object instances, as seen from one or more views. Previous work on learning shape reconstruction from multiple views uses discrete representations such as point clouds or voxels, while

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continuous surface
generation approaches
lack multi-view
consistency.

Pix2Surf: Learning Parametric 3D Surface Models of Objects ...

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expanding field of 3D reconstruction.

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Surface reconstruction from magnetic resonance (MR) imaging data is indispensable in medical image analysis and clinical research. A reliable and effective reconstruction tool should: be fast in

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prediction of accurate well localised and high resolution models, evaluate prediction uncertainty, work with as little input data as possible. Current deep learning state of the art (SOTA) 3D ...

Probabilistic 3D surface reconstruction from sparse MRI ...

Manipulating facial expressions is a challenging task due to

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fine-grained shape changes produced by facial muscles and the lack of input-output pairs for supervised learning. Unlike previous methods using Generative Adversarial Networks (GAN), which rely on cycle-consistency loss or sparse geometry (landmarks) loss for expression synthesis, we propose a novel GAN framework to exploit 3D dense ...

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