

Defining the Digital Environment

A Point Cloud Approach to Object Extraction in 3D Point Clouds

by

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For the Ph.D. degree in Computer Science

by **Abhinav Kumar**. This dissertation presents an approach to extract objects from point cloud data. The approach is based on a novel point cloud segmentation method that uses a deep learning architecture to learn a point cloud representation. The approach is evaluated on a large dataset of point cloud data and shows superior performance compared to existing methods.

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