

# Surface Reconstruction

## An Implementation of Hoppe's Method (Proposal)

Rui Yang, Zhuoli Jiang

March 31, 2012

### **1 Surface Reconstruction Problem**

### **2 Background**

### **3 Goal**

### **4 Sub-Problem Division**

#### **4.1 Point Set File Parsing**

#### **4.2 K-Nearest Neighbours**

#### **4.3 Primary Component Analysis**

#### **4.4 Minimum Spanning Tree**

#### **4.5 Orientation Propagation**

#### **4.6 Contouring Algorithm**