Modern Art Scanning

Dipl.-Ing. Thomas Weber
Technische Universität München
Chair of Geodesy

Cooperation Partners
- Doerner Institut
- Die neue Sammlung

Documentation of Installation Art
- Installations consist often by many objects
- The objects expression is effected by their topological arrangement
- Geodetic measurements serve as documentation of each objects position
- Derived scaled plans allow later an almost authentically reconstruction of the installation

Document Topology by Geodetic Methods

Documentation by Laserscanning

2D-Plan generated from laserscans
Revers Engineering of Modern Design

- Detailed 3D Model of an exceptional habitation design was needed for documentation and for analysis done by the restorers
- Futuro was scanned completely inside and outside in two days
- A self-developed software tool classified surfaces of second order degree from pointclouds to reconstruct the geometry of Futuro’s shapes

Deformation analysis of Futuros surface

- Ellipsoidal coordinates allow analysis by the ellipsoidal heights

3D Modell of Futuro

- Geometric data should be the base of an information system for restorers which helps them by documenting damages on Futuro’s surfaces
- Documentation of the Futuro will be part of an exhibition shown in Paris next year

Plans of Futuro

- Profile without furniture
- Groundplan
Questions?

We would be pleased to welcome you at our booth "Geodätisches Prüflabor":
INTERGEO Hall C1 Booth 1751