Software Engineering Project Weekly Report

3D-KORN

University of Bourgogne

Luca Canalini Ezequiel De La Rosa Benjamin Lalande Chatain
Roberto Paolella Umamaheswaran Raman Kumar Savinien Bonheur
Albert Clerigues Garcia Daniel Gonzalez Adell Nayee Muddin Khan Dousai
Pamir Ghimire Di Meng

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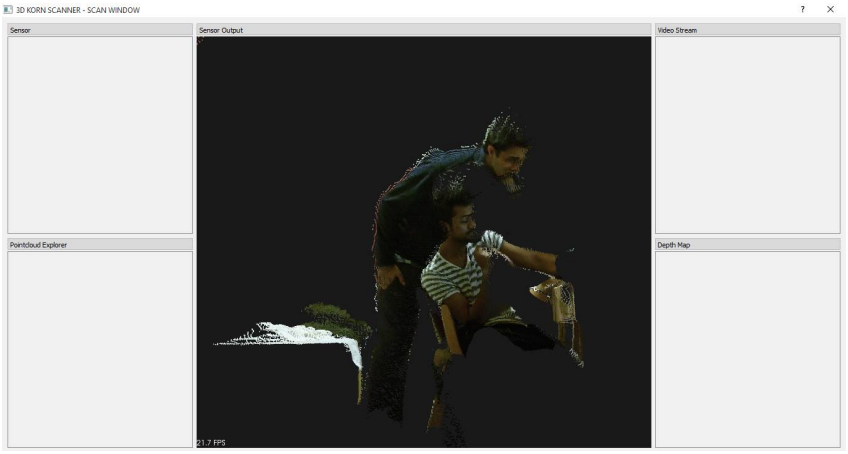
1 Tasks Completed

- **Point Cloud Operations Class**
  - *Research and documentation about watertightness*
  - *Conversion from vtk format to stl*
- **GUI Class**
  - *Research, documentation and test for menubar, toolbar and statusbar.*
  - *Kinnect stream add to the GUI*
  - *Improvements on the scanning interface*



- **Scan Registration Class**
  - *Compensation with the scanner turntable known center of rotation and angle difference between scans*

- **Kinect Controller Class**
  - *Fix the acquisition of null points*
  - *Definition of a cropBox for the acquisition of points*
  - *Complete the TDK_KinectV2Controller class*

2 Main Goals For Next Week

- **Point Cloud Operations Class**
  - *Complete the implementation of watertightness*
  - *Save and Load Class*
- **GUI Class**
  - *Integration of registration and meshing classes to the GUI*
  - *Improvement of the GUI in term of Friendly User Abilities*
- **Scan Registration Class**
  - *Research and Documentation for improvements*
  - *Complete the Scan registration*
- **Kinect Controller Class**
  - *Implement controller functions for R200*
- **Platform**

  A reunion with the different groups for the turntable issue has been organized.
  The main goal is now to evaluate the feasibility of the proposed design. 4 axes of development have been raised:
  - *The structure of the turntable itself*
  - *The step motor and shield for the Arduino interface*
  - *The traction belt*
  - *The motor encoder*
- **Knowledge transfer session**

  A knowledge transfer session will be organized this week, where each member will share the features implemented and the work in progress with the rest of the team.

3 Important links

- Task allocation and progress (`https://goo.gl/WDHEjf`)
- Github repository (`https://github.com/umaatgithub/3D-KORN`)