

MASTER'S THESIS AT FLATFROG

Investigation of mathematical models for trace prediction of pen input on a multi-touch screen

For large multi-touch screens designed for collaboration, total system latency is an important parameter affecting user experience. The system latency is a combination of the latency of the multi-touch system, the operating system and the display rendering system. One way of improving the latency experienced by a user, is to reduce the visual lag of traces in a drawing application by means of trace prediction.



This project aims at investigating different mathematical models for trace prediction of pen input in a drawing application. Implementing the prediction in an application, rather than in the touch system itself, gives extra degrees of freedom since trace prediction can be changed when new data is available from the touch system and traces can be redrawn in the application. The models should be based on knowledge of the capabilities and limitations of human muscle movement when drawing with a pen on a large screen. The focus of the project should be on improving user experience. The prediction models should be implemented in a PC environment and evaluated using data from Flatfrog's large multi-touch screens.

Please send your application to jobs@flatfrog.com.
Enter the name of the Master Thesis you apply for in the subject field.

ABOUT FLATFROG LABORATORIES AB.

FlatFrog is revolutionizing the touch industry with its patented InGlass™ touchscreen technology. FlatFrog's products offer a perfect touch and viewing experience, supporting over 80 touches with more than 1,000 pressure detection levels in a flush, bezel-free design or an incredible precision pen experience. It works with glove and passive or active pen. It supports Windows, Android and Linux. InGlass™ touch is designed for mass production and integration into tablets, PCs and large interactive displays. FlatFrog Laboratories AB is based in Lund, Sweden with offices in Silicon Valley, Taipei and Seoul.

www.flatfrog.com | info@flatfrog.com | Tel: +46 46 10 25 00

