

TU Dresden conducts university research in the area of natural interaction in multiple-display environments. The massive MultiTaction iWall[®] is perfect for inspiring users to collaborate, communicate and explore, thus making it a valuable research tool.

Using modalities such as touch, gestures, pens and markerbased input by means of tangible objects, TU Dresden explores ways of working on and with interactive surfaces in different application domains. The installation at TU Dresden also combines the MultiTaction iWall[®] with handheld devices such as smartphones and tablets.

"We expect large interactive displays to be omnipresent in the future," explains Professor Raimund Dachselt, head of the Interactive Media Lab at TU Dresden. "The MultiTaction iWall[®] allows us to not only display 24 Megapixels of information in a seamless fashion, but in particular to interact with the data in a way which no other tiled display wall allows. The MultiTaction technology is the only one worldwide to support this variety of interaction modalities at this size."



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Dresden University of Technology

Case Study

Interactive wall for research

Product Use Case

MultiTaction iWall®

Education

Research on Next Generation User Interfaces for Interactive Surfaces

TU Dresden and its Computer Science department have already started using MultiTaction iWall[®] for a range of research and student projects, studies and other purposes.

"In our research, we use the rich input of multiple users at the large wall," tells Professor Dachselt. "At the same time, we combine various interaction modalities, such as touch, pen, tangible objects, gaze, hand gestures and handheld devices, to interact on or in front of the display wall or from the distance. That way the whole space on and in front of the display can be considered one large interactive space."

"We want to be the first lab with this equipment to do groundbreaking research in the human-computer interaction field. While research on large displays (mostly projective, though) has been done over a decade already, research on high-resolution interactive display walls is very new."

Professor Raimund Dachselt head of the Interactive Media Lab at TU Dresden



Groundbreaking research tool for data visualization

In addition to research in the field of novel, intuitive and natural human-computer interaction, TU Dresden also works on interactive data visualizations. The research scientists at TU Dresden apply this science in order to find perception-oriented techniques that can effectively handle big data on a big display wall for several users to fields such as cell or systems biology, computerisation of traditional industries such as manufacturing, press and publishing sector, media management, gaming and other areas. Besides research, a giant interactive display wall can also be used for educational purposes. TU Dresden has used the MultiTaction iWall[®] in several public demonstrations; in particular for pupils, prospective students and for teaching students. Their aim is to contribute to ultimately making people more satisfied by providing user interfaces with a great user experience and even an appeal of magic

More Information

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