

Two Ph.D. project scholarships in Computer Science

Merging physical and virtual realities

Coherence, consistency, causality & synchronicity

About us

The High Performance Distributed Systems group is a part of the Department of Computer Science at the University of Tromsø, Norway. Our research is within the areas of:

- Distributed and parallel systems
- Human-computer interaction
- Graphics

Our research environment consists of:

- 22 megapixel wall-sized display
- 28-node display cluster
- 72-node compute cluster

We have two Ph.D. project positions available associated with the Verdione project.

About the Verdione project

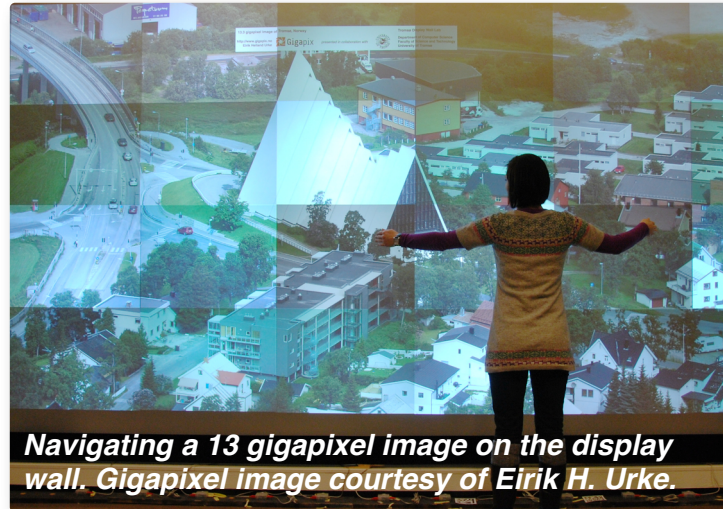
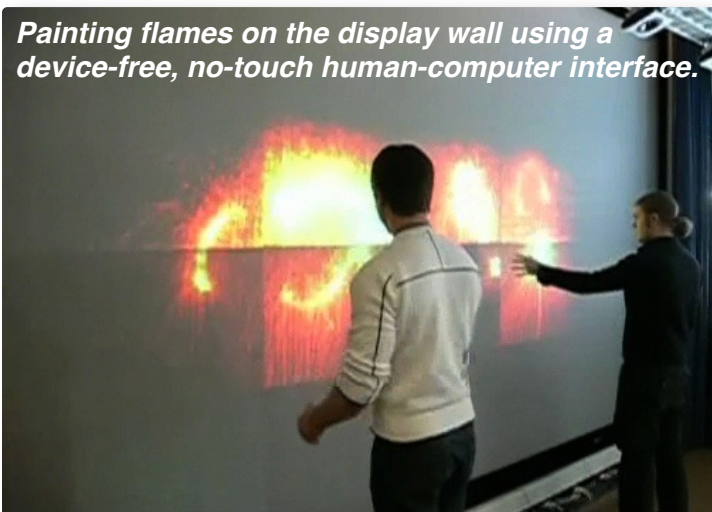
- Funded by the Norwegian Research Council
- Application domain: The World Opera
- Goal: Immerse local and remote musicians, actors, singers and audience in a mixed virtual reality environment

About the positions

The Ph.D. projects will focus on issues related to:

- Merging physical and virtual realities
- Blending artists and audience at one location with other locations
- Coherence and consistency when combining distributed physical and virtual realities
- Causality and synchronicity

Painting flames on the display wall using a device-free, no-touch human-computer interface.



Navigating a 13 gigapixel image on the display wall. Gigapixel image courtesy of Eirik H. Urke.

Our approach

We employ a systems approach to conduct research. A successful candidate will:

- Design and implement systems
- Conduct experiments on the developed systems
- Publish academic, peer-reviewed papers detailing the results

Interested?

To apply, you will need a Master of Science or equivalent degree in Computer Science. You can read more about the positions and detailed requirements here:

<http://www.cs.uit.no/~daniels/phd-verdione.pdf>

Both positions have a starting salary of about NOK 353 000 per year before taxes, and have a period of appointment of three years.

Applications will be evaluated continuously. Our goal is for the research to begin as soon as possible.

Contact us!

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