

Dr. Erenst Kruijff



I am a senior researcher at the Institute for Computer Graphics, Graz University of Technology.

My research areas are 3D User Interfaces (3DUI) for virtual and mixed environments, human factors and ergonomics, unconventional human-computer interfaces, and distributed systems. I have coordinated multiple scientific projects and designed, developed, and evaluated a variety of 3D input devices and displays.

In addition I have taught courses at universities and conferences (including ACM SIGGRAPH) in the areas of 3DUI, virtual reality, modeling and animation, and general human-computer interaction themes, and supervised multiple students.

I enjoy investigating new ways of interaction that enrich our daily life. I try to design interfaces for user experience, offering compelling ways to perform "normal" actions, or doing more extraordinary things. All with the human in mind... a human being has enormous capabilities which are still hardly used in our current interfaces.

I have published a multitude of refereed publications and, together with Doug Bowman, Joseph LaViola and Ivan Poupyrev, authored the book *3D User Interfaces: Theory and Practice*, published in 2004 by Addison-Wesley. Furthermore, I am actively serving a large amount of program and review committees.

I am a member of ACM and igroup.

Current activities

HYDROSYS: I am coordinating an EU-funded project focusing on the development of spatial analysis tools for on-site environmental monitoring and management. The project deploys mobile sensor stations and a blimp to gather environmental data, displayed on outdoor augmented reality setups or cell phones. The project is a cooperation between TU Graz, EPFL (Switzerland), WSL (Switzerland), University of Cambridge (UK), Helsinki University of Technology (Finland), Ubisense (UK) and Luode consulting (Finland). [HYDROSYS website](#)