The European Network for Intelligent Information Interfaces

TWI-AYSİ/ CARE HERE

TWI-AYSİ: The World Is As You See It¹ (be it through rose-tinted glasses, from a hospital bed or from a wheel chair!)

Severely disabled children are, to a large extent, denied the experience of movement, including the ability to approach, reach out, discover, manipulate and make sense of the world. But the world of multimedia, through new technology applications, should be as accessible to these children as to anyone else. This is why the TWI-AYSİ research team set out to explore how and to what extent disabled children can enjoy and benefit from being immersed in a sonic and visual environment.

The team started out with a small-scale investigation (an i3 Future Probe called TWI-AYSİ) into some of the key ideas and into the reaction of severely disabled children to visual technology. We suspected, on the basis of the experience of the i3 project CARESS (to which TWI-AYSİ is a follow-up), that there is great potential in careful working with disabled children over many years. The probe results proved sufficiently encouraging for the team to instigate a full research proposal, entitled CARE HERE, which was accepted for funding (1.9 million Euro) in June 2001.

The CARESS project worked with sound. TWI-AYSİ/CARE HERE assumes that immersion in a visual environment can hold similar potential. Indeed, we were surprised at how readily aesthetic resonance could be observed by disabled children moving within the rather crude (and silent) visual spaces we assembled. The potential of combining auditory and visual stimuli in thoughtful and inventive ways now needs to be explored further. The project will do this by exploiting the children’s unencumbered movements through space, rather than through the use of wearable or touchable sensors, since cumbersome virtual-reality headsets, or indeed any kind of physical attachments, seem both undesirable and unnecessary in this context. Our exhibit at the i3 research village will give you the chance to experience generating sounds and images through movement.

¹ Quote from some ancient Indian scripture by the Yoga teacher Sage Vasishtha, translated from Sanskrit by Swami Venkateshananda in Yoga Vasishtha (1984).

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