RESEARCH ARTICLE

SMELL-O-VISION-THE FUTURE DIGITAL DISPLAY DEVICE

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Abstract— The smelling screen is a new olfactory display that can generate a localized odor distribution on a two-dimensional display screen. The generated odor distribution is as if an odor source had been placed on the screen, and leads the user to perceive the odor as emanating from a specific region of the screen. The position of this virtual odor source can be shifted to an arbitrary position on the screen. The user can freely move his/her head to sniff at various locations on the screen, and can experience realistic changes in the odor intensity with respect to the sniffing location. Smell-O-Vision works by continuously feeding odours from vaporizing gel pellets into four air streams, one in each corner of the screen. These air streams are blown out parallel to the screen's surface by fans, and varying the strength and direction of them spreads the scent to any given spot on the screen. Now Smell-O-Vision becomes the digital display device.

Keywords— Smell; vision; odor; screen; position

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