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# Interactive Snow Sculpture Painting

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## **Abstract**

This video shows the live-painting of snow sculptures with dabs of digital paint, deploying a mobile phone (virtual spray can) with accelerometer, a PC and a video projector - creating 100% recyclable art. The technology used is called MobiSpray, which has been reported by the author at SIGGRAPH 2009 in the Art papers track. Using a mobile phone in this context allows the painter to roam freely (walk, stand, lie) around the target object, far or near in real physical space, while looking directly at its surface to see how the painting appears in real time. The phone's keyboard keys are used for controlling the drawing tools such as spraying colors or spraying intensity.

## **Keywords**

Snow sculpture, video, MobiSpray, accelerometer, virtual graffiti.

## **ACM Classification Keywords**

H5.m. Information interfaces and presentation (e.g., HCI): Miscellaneous.

## **General Terms**

Snow sculpture, video, MobiSpray, accelerometer, virtual graffiti.



**figure 1:** Snow sculptures painted with MobiSpray.

## References

- [1] Dachsel R., Buchholz R. 2009. Natural throw and tilt interaction between mobile phones and distant displays. In Proceedings of CHI'09. ACM.
- [2] Scheible J. 2010. Empowering Mobile Art Practice: A Recontextualization of Mobile and Ubiquitous Computing. Dissertation publishing series 107, Aalto University.
- [3] Scheible J., Ojala T. 2009. MobiSpray: Mobile Phone as Virtual Spray Can for Painting BIG Anytime Anywhere on Anything, Special Issue of Leonardo. In The Journal of the International Society of the Arts, Sciences and Technology, Vol. 42, No. 4, pp. 332–341.
- [4] Scheible J., Ojala T., Coulton P. 2008. MobiToss: A novel gesture based interface for creating and sharing mobile multimedia art on large public displays. In Proceedings of ACM MULTIMEDIA'08, 957–960. ACM.