OneSpace 2008

First International Workshop on Blending Physical and Digital Spaces on the Internet

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Online Proceedings

Vlad Tanasescu (Ed.)

Preface

The first International Workshop on Blending Physical and Digital Spaces on the Internet (OneSpace 2008) took place in conjunction with the Future Internet Symposium, on September 28th in Vienna, Austria.

The aim of OneSpace 2008 was to investigate how the Internet challenges our notions of space. Indeed, one of the most important effects of the Internet and of the Web has been to relax spatiotemporal constraints on human activities by allowing fast global access to information as well as to physical resources and services. Moreover, the Internet has familiarised us with new topologies leading to the creation of virtual spaces and communities. P2P networks of devices create semi-private sharing subspaces and communities; (micro-) blogging induces new notions of spatial as well as social proximity, while sensor and controller networks enable ubiquitous access, sensing and interaction. Furthermore, positioning systems (e.g. GPS, GSM based, WiFi-based, etc.) together with new Web mapping technologies or virtual globes contribute to blur the boundaries between spatial representation and perception by providing geographic mashup opportunities, photorealistic visual navigation, and three-dimensional representations.

The authors contributed new, and sometimes controversial ideas, which helped to a better understanding of the topic. Arno Scharl demonstrated the spatial navigation of information landscapes and the use of collaborative social networks for the acquisition of local information. Pierre Grenon presented new directions toward ontologies of spaces, either *abstract*, *real* or *virtual*, and ways in which spaces can interact. Emanuele Della Valle introduced the audience to the challenges of urban computing, and the requirement for new techniques of *stream reasoning* in such an environment. Vlad Tanasescu investigated the use of *spatiotemporal metaphors* for Internet technologies, and advocated their usefulness. Mathias Baldauf described the integration of mobile computing with a tagging platform, and described a prototype of a "Real World Web Browser". Georgios Sakellariou presented an adaptive GIS tool for image characterisation using spatial techniques borrowed from robotics to describe shape and change in geographic space. Barton Thurber presented the use of display, simulation and augmented reality settings for the humanities classrooms. And Anna Zhdanova introduced Mobile Social Spaces as a interaction environment on the Internet, and a means to share and gather personal content.

On behalf of the organizers, I would like to thank the authors for their submissions and presentations, as well as our Program Committee for their hard work and for submitting their reviews on time. I would also like to thank the FIS conference organizers for their support, without which this event would not have happened.

<div style="text-align: right">October 2008</div>

Vlad Tanasescu
OneSpace 2008 Co-Organizer

Organisation

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