Supporting Informal Communication With Video Snapshots

Introduction

Talking to the person next to you is easy, there's no need to arrange a meeting or wait for a returned phone call, you just talk, and when you're done you stop. The high degree of reciprocal aural and visual awareness between people in the same physical space enables them to appreciate both long term rhythms and current activity, and easily slip in and out of conversation. This informality is key for building relationships. Similar awareness could help enable informal communication between physically remote colleagues.

Prototype

We have constructed a prototype support informal system to communication between networked PC users.

Jeremy Thorne jeremy.thorne@bt.com

System

Building on the open source instant messaging platform Jabber, the system operates on a reciprocal "if I can see you, you can see me" model. A client can only receive presence information from those it is prepared to trust with its own status.



Figure 1 System Diagram

Our key unit of presence information is motion snapshots - every 10 seconds, one second of audio and video information is captured by the client and distributed to its buddies. This provides clear representation of current activity; the motion also allows perception of activity when displayed in the visual periphery.

To allow continuous unconscious perception of the activity of buddies, we have created a semi-transparent interface that floats over the top of the desktop.

In Figure 2 each rectangle represents a different buddy. Offline contacts are represented by static portraits, while online contacts are represented by the current video snapshot. This snapshot is looped until the next update arrives. The corresponding audio loops are played on mouse-over of the contact.

nic	ations	itex.	dra	lft-a
nic	ations	stex.	bał	Ċ
hic	ations	.tex		
hic	ations	s.ps		
nic	ations	.pdf		
nic	ations	s.log		
nic	ations	a.dvi		
		1.4		

Interface



Figure 2 Visual Interface