Backgrounder

HP Labs Demonstrations Overview

At the HP Labs EMEA AR/PR Summit on June 5, HP presented demonstrations of a number of innovative prototype technologies. These technologies will create new experiences for consumers in work and leisure, deliver new opportunities for enterprise customers and fundamentally change how people interact with information.

CloudPrint (through Idealab)
Social Computing Lab

CloudPrint is a free, web-based service offered by HP Labs that makes it possible to share, store and print documents, photos and web pages using a mobile phone. The service works in two ways: mobile users can send email attachments, data or Web pages from a mobile device to the CloudPrint virtual print server for later printing, or online users can print documents stored on the CloudPrint virtual server wherever they are while travelling.

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FaceBubble
Multimedia Interaction & Understanding Lab

The rise of digital photography has created an explosion of stored digital photos. FaceBubble offers an easier way for people to organise their rapidly expanding collection of digitised visual content. FaceBubble utilises a photo clustering system that combines face models and photo clustering methods to achieve automatic and accurate face identification in images. Consumers input into the tool a photo and name for each individual they want recognised. After analysing and storing information about the face, FaceBubble can then find other photos of the person in the image collection.

Snapfish Lab (through Idealab)
Multimedia Interaction & Understanding Lab

Snapfish Lab is a website that offers early access to multimedia research under development at HP Labs. Snapfish Lab houses experimental media processing tools to enhance individual photos, browse photo collections, and create new media content with existing photos. Anyone with a Snapfish account can try out the tools using their own photos. As the tools are under development, the site provides a way for HP to evaluate these technologies and incorporate customer feedback into the research process.

HP Indigo Photo Enhancement Server
Printing Automation Technology Lab

The HP Indigo Photo Enhancement Server is an automated software tool, designed specifically for the photo specialty market. It helps photofinishers and print service providers produce higher-quality digital photographs on their HP Indigo presses. The server uses 12 proprietary algorithms to automatically detect faults and improve image quality. It has the ability to sharpen and smooth images, adjust contrast and brightness, enhance shadow details, minimise JPEG artefacts and reduce red-eye.

Trusted Converged Client
Systems Security Lab

The Trusted Converged Client (TCC) eliminates the need to maintain strict physical separation of the personal and business worlds by using separate devices. The TCC uses virtualisation technology to isolate personal and business information within a single PC by creating different compartments. As a result, a business PC can be used for both personal and business needs without exposing corporate networks and information to the risks associated with the open Internet.

MyPaasPort
Automated Infrastructure Lab

MyPaasPort is a web-based beta service that allows users to easily produce high-quality documents that can be customised for each individual recipient. By combining automated document layout with customisable web-based user interfaces, MyPaasPort enables small businesses, franchises, and local branches of large organisations to easily adapt standardised documents to the needs of their business and customers.

Cells as a Service
Web Services & Systems Lab

Dynamic cloud services will be made possible by the emergence of large-scale, intelligent, automated computing infrastructures. The goal of the HP Labs Cells as a Service project is to create a management system for cloud infrastructures that can support the most demanding applications running as services in the cloud.

Quantum Key Distribution (QKD)
Systems Security Lab

QKD uses the principles of quantum cryptography to underwrite an ultra-secure, personal security device (a mobile phone or PDA) for self-identification, online shopping and cash withdrawals. It represents a modern (and usable) update on the unbreakable 'one-time pad' crypto system as used in the hotline between the White House and the Kremlin at the height of the Cold War.

mscapes (through Idealab)
Pervasive Computing Lab

mscapes enables the delivery of rich, context-aware services and media through pervasive computing technology. Researchers from HP Labs have created a software toolkit that enables anyone (primary school children and pensioners and ages in between have used it) to create their own 'situated' virtual experiences, games and visits anywhere in the world.