AutoCollage: From Paper To Product

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SIBGRAPI 2008, Campo Grande, Brazil, October/2008

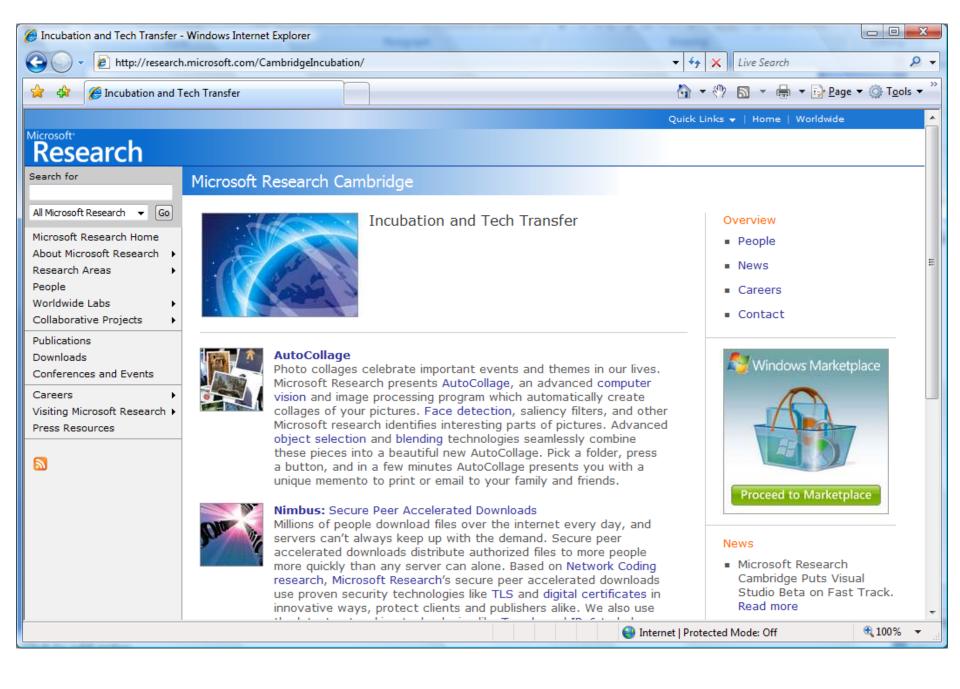
- Software for papers/events x product
- Researchers and the "path to market"
- Companies and the "path to market"

A Big Software Company

- 100,000 employees
- 10,000 "software development professionals"
- 1,000 researchers
- About 500 ongoing "projects"

Incubation and Tech Transfer

- "Microsoft Research" team:
 - Identify technologies ready for use in products
 - Work with product teams
 - Work with external partners
 - Recruiting, management, revisions, etc.
 - TAB (Technical Advisory Boards)



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Digital Tapestry



Figure 1. Tapestry comparison. Top: eight different images from a consumer photo collection. Bottom: Four different ways to visually summarize such a collection: (a) Manually created tapestry using commercial image editing software [1]; (b) mosaic of representative images; (c) shape and appearance preserving epitome [7]; (d) digital tapestry created with the proposed method.

AutoCollage

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Figure 1: AutoCollage automatically creates a collage of representative elements from a set of images. Novel and desirable properties include: boundaries between images are appropriately positioned; there is little duplication of material; small and meaningless image fragments are avoided; faces are preserved whole; blends may either cut along natural boundaries or be transparent, decided automatically.

Software For Papers/Events

- Demo (if possible)
 - Matlab Application

Final Product

- Demo
- Expectations for the product

From Paper to Product

- Main issues (generic)
 - Installation (setup)
 - Test
 - Support
- Specific issues

Installation

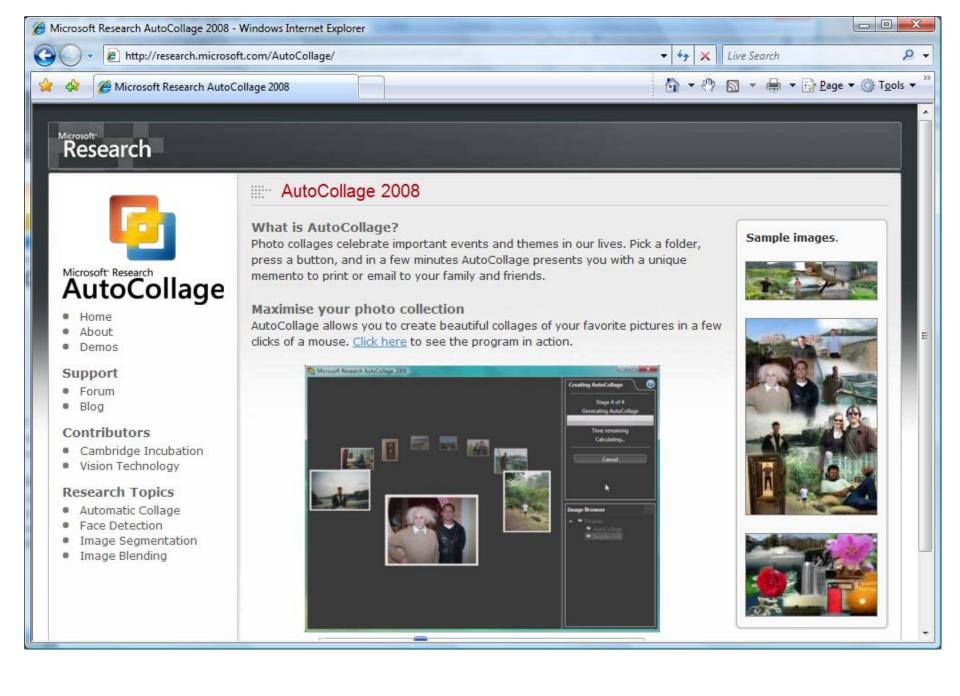
- Software for papers/events
- Product
 - Always work
 - Detect and install dependencies
- "It works on my computer!"

Test

- Software for papers/events
- Product
 - Test Matrix: test cases and their execution schedule
 - Test cases: positive, negative, stress, globalization/localization, compatibility, accessibility, internationalization, extensibility, programmability, etc.
 - Executions: BVTs (Build Verification Tests), daily, weekly, test pass, regression, etc.
- "This was working yesterday..."

Support

- Software for papers/events
- Product
 - Support to other teams
 - Product Management, User Education, Test, Marketing, Sales, IT, etc.
 - PSS (Product Support Services)
 - Customer support (alpha, beta, final)
- "The application does <this>"
 - (No matter what the documentation says...)



Specific Issues

- Only happens with products
 - Usability: the customer is the "expert"
 - Compatibility: other applications and versions
 - Bugs: fix as per user priorities
- Specific projects = specific problems
 - Hardware
 - Deterministic x random

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Researchers

- Good technology <> "good product"
 - The "P"s from marketing
- A "good product" = market test
 - Some products will always be "seasonal"
- Let go...
 - At some point, it is no longer "your research"

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Thanks!

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