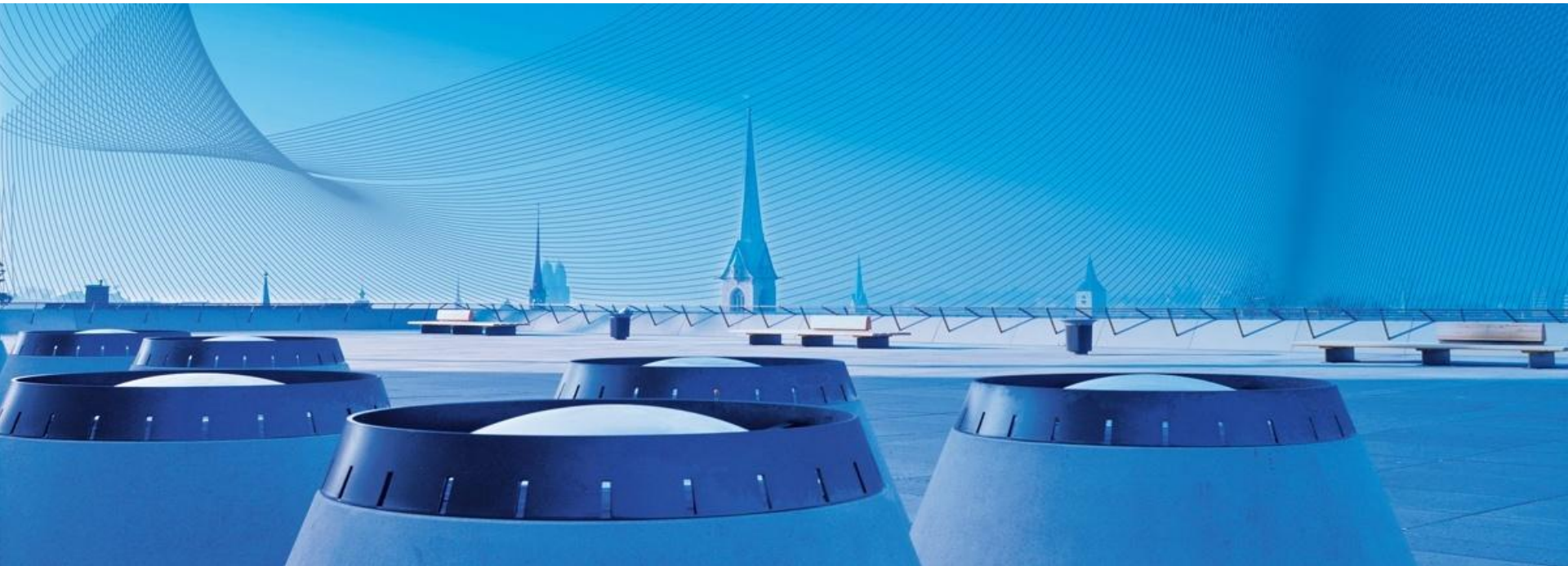


Distributed Systems – Closing Words

Matthias Kovatsch

kovatsch@inf.ethz.ch



EXAM

Friday, 8 February 2012

09:00 – 12:00

Exam

- Split into two parts
 - Mattern (90 points)
 - Wattenhofer (90 points)
 - 180 minutes shared for both parts (work in any order)
- Exam preparation exercises will be available on Web site
<http://www.vs.inf.ethz.ch/edu/HS2012/VS/>
- No Android programming questions

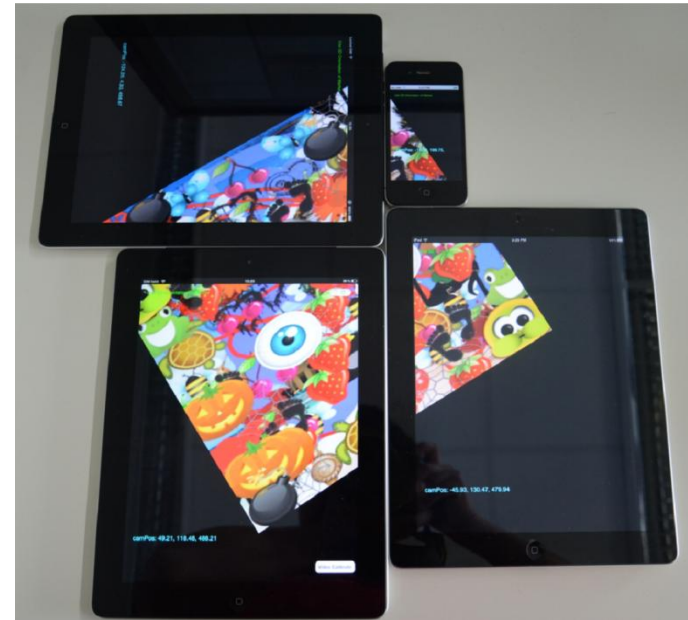
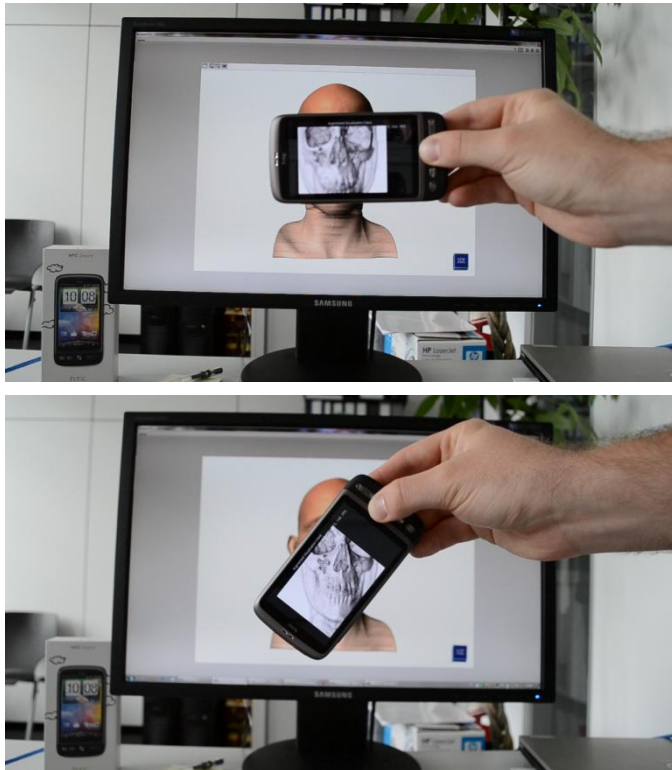


AVAILABLE PROJECTS

<http://www.vs.inf.ethz.ch/edu/theses.html>

Smartphones and Displays

- Interaction with large public displays
- Building a tiled display from smartphones

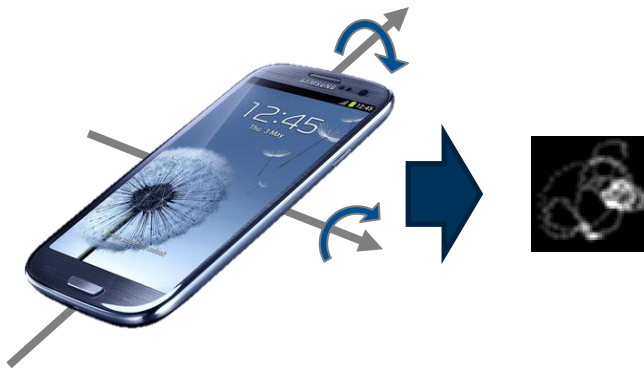


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<http://people.inf.ethz.ch/soeroesg/>

Blurry Barcode Recognition

- Image stabilization
- Live photo sharpening
- Super resolution



Mobile Shopping Assistant

- Price label recognition on mobile phones
- Product recognition in grocery stores
- Product augmented reality



14.30



1.75



149.99

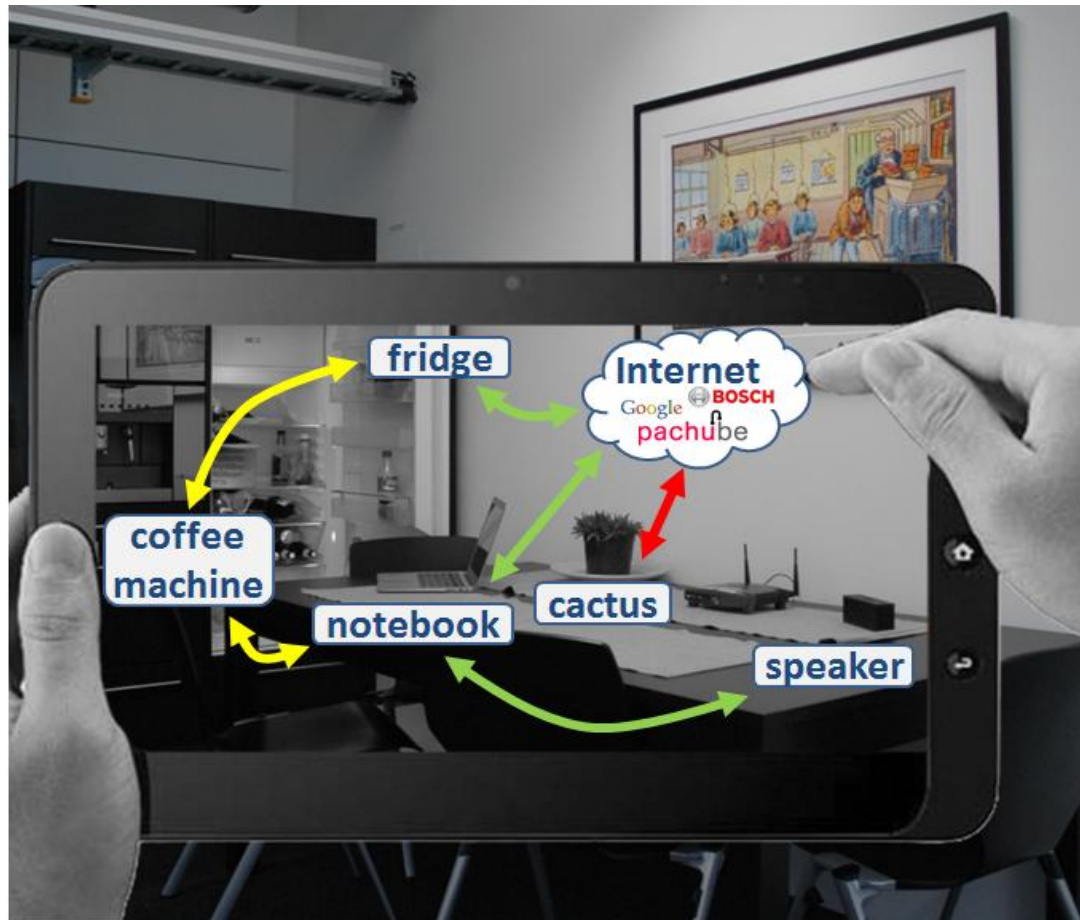


© WordLens



Scandit

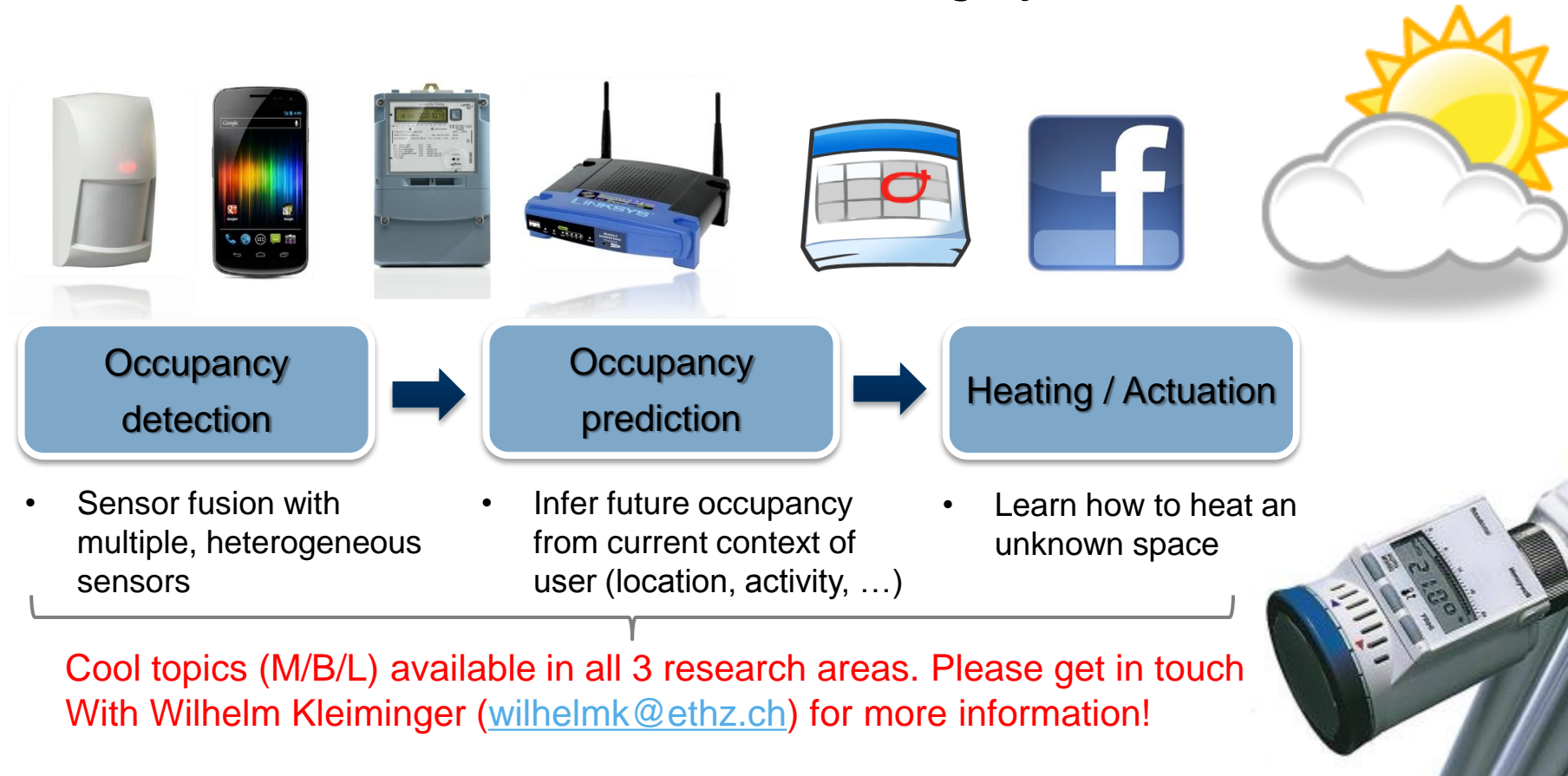
A Magic Lens for Visualizing Device Interactions



Interested? simon.mayer@inf.ethz.ch

A Smart Heating System Using «Opportunistic» Sensors

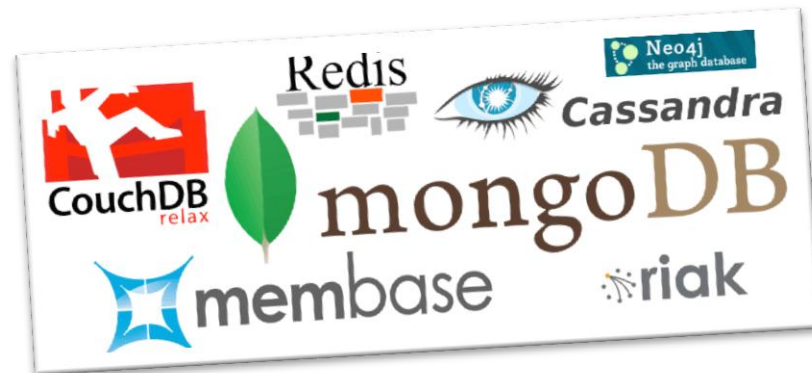
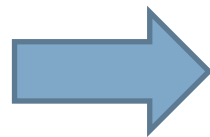
Goal: *To use sensors - which already exist in the household - to build an efficient heating system!*



[MS/BS/Lab]

Designing Future Energy Systems

- Project with **energy provider** in Switzerland
 - Multiple households equipped with sensors
 - ~ 150 MB per day(!)
- **Challenge:** Efficient data storage & retrieval



- **Contact:** Christian Beckel
<http://people.inf.ethz.ch/beckelc/>
- Other projects (machine learning) available

The Copper (Cu) CoAP user-agent for Chrome

Learn to develop browser add-ons for new protocols



CoAP protocol handler
and GUI for Mozilla Firefox

Port to Google Chrome

Create tool for code updates
(target code generation)

<http://people.inf.ethz.ch/mkovatsc/>

Automated Integration Testing for Embedded Web Services

Learn proper build automation for software projects



CoAP back-end framework

Already uses Apache Maven

Provide integration tests

Add support for travis-ci.org

<http://people.inf.ethz.ch/mkovatsc/>

Top Students: Work on Mozilla Firefox

Mozilla is open for patches to roll out new Web protocols



mozilla
Firefox[®]

Make Firefox's new
DTLS 1.2 support scriptable

Port CoAP code to C++

Help offered by Mozilla
networking engineer

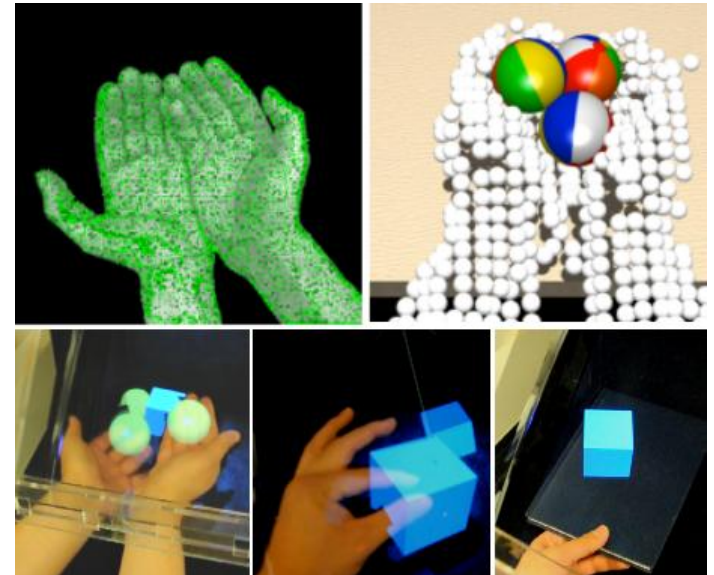
<http://people.inf.ethz.ch/mkovatsc/>

SEMINAR FS2013

252-3600-02L

252-3600-02L Distributed Systems Seminar

- Focus on ubiquitous computing and computer interaction
- With Otmar Hilliges
(new professor, previously Microsoft Research, UK)
- About ten slots for participants
- Preparation meeting
will be announced
- See catalogue



<http://www.vvz.ethz.ch/Vorlesungsverzeichnis/lerneinheitPre.do?lerneinheitId=82961&semkez=2013S>

OPEN PROJECT PRESENTATION

Monday, 17 December 2012

One Minute Madness

Submission

- Provide one (or very few) slides to introduce your project
- Submit slides as PDF

On Monday

- One presenter per group
- Line up next to stage
- No chance to exceed your one minute

Presentation Booths

- Present your projects to us and other students
- Small tables provided outside NO C 6
- Come early to set up your demo

Demo not feasible indoors?

- Prepare a mock-up
- Have slides on your laptop to present project
- Be creative



HTC Desires

- May keep devices until exam
- Return at the office (CNB H 108), not after presentation
- Apply for continuing project

