

2nd JRC European Crisis Management Laboratory (ECML) Workshop: Map Interaction

11 – 12 October 2012, Ispra Italy



Participants

Key users (situation centre staff), map service providers, HCI service providers and product vendors, JRC staff

Goals

Presentation, demonstration, and exploration of map interaction techniques and devices:

- **SMART interactive whiteboard**
- **Microsoft Kinect**
(courtesy of Software Lab)
- **Microsoft Surface 2.0**
(courtesy of Software Lab)
- **3DConnexion SpaceNavigator**
- **Eye-Tracker**
(courtesy of SR Labs)



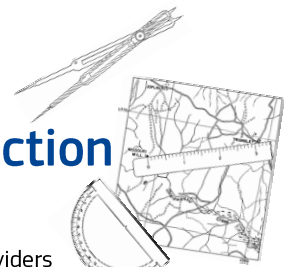
Benchmarking of available solutions in ECML via predefined basic tasks e.g., find, explore, relate, present, ...

Methodology

Experiment & collaborative evaluation discussion

Key variables

Time to completion, error rates, user satisfaction



Thursday, 11.10.2012

- 10:00 Arrival of technology providers
- 10:15 System installation / setup / adjustment
- 12:00 Lunch break
- 13:00 Arrival of workshop participants
- 13:15 Introduction: JRC, IPSC, Globesec, Critech.
- 13:15 Introduction: ECML MapInteract workshop
- 13:45 **Map interaction in mass casualty incidents**
(Tayfur Coskun, TU Munich, Germany)
- 14:30 **google.org map applications for crisis management** *(France Lamy, google.org) [t.b.c.]*
- 15:00 Coffee Break

Presentation and demonstration of HCI devices:

- 15:15 **Gaze interaction – direct eye control and adaptive interfaces**
(Roberta Castoldi, SR LABS, Italy)
- 15:35 **1. The interaction transformation: natural user interfaces with gesture control**
- 2. Multi-touch, multi-user, direct interaction: the amazing world of surface computing** *(Gian Paolo Santopaolo, Software Lab, Italy)*
- 16:15 Exploration of HCI devices. Showroom demos: WIN&I Gesture Control Software, Software Lab, SR LABS, ...

Friday, 12.10.2012

- 09:00 **Map interaction benchmarking experiment:** Overview, approach, and procedures
- 09:15 **The Analysis:** each participant uses each device for comparable sets of pre-defined tasks
- 11:15 **The Brainstorming:** groups of 5 use selected devices collaboratively
- 12:00 **The Briefing:** expert users present a situational picture to the audience with selected devices
- 12:45 Lunch Break
- 14:30 Preliminary first results of experiment

Collaborative Evaluation Discussions:

- 14:40 **SMART, Kinect, SpaceNavigator**
- 15:25 Coffee Break
- 15:40 **eye-tracker, Surface table, mouse/keyboard**
- 16:25 **Evaluation Discussion: Summary**
Which interaction technique is suitable for what task? What is the status quo of map interaction? What are the limitations and what are future development needs?

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