First Workshop on Space, Time and Ambient Intelligence

COSIT 2009
Aber Wrac’h, France
Organizers: Mehul Bhatt and Hans Guesgen

September 21, 2009
Participants:
- 2 Invited speakers
- 5 Papers contributors
- 27 Registrations (total)

Organizers:
- COSIT 2009
- STAMI 09 Program Committee
- Funding Organization:
  - SFB/TR 8 Spatial Cognition, Universities of Bremen and Freiburg
Why do we need STAMI?

**Ambient Intelligence: The 'I' in AmI**
- Space
- Change (Time)
- Interaction - Action, Events and broadly, HCI

**Spatial Intelligence for AmI Systems**
Qualitative Spatial and Temporal Reasoning is a natural partner:
- qualitative characterizations of space
  - e.g., qualitative scene modeling, static scenario inference
- dynamic spatial phenomena (e.g., space, actions and change)
- predictive and explanatory analyses with spatial data

**QSR as a field:**
Needs more application outlets.
AMI and STAMI 09 (present and future)

**Theoretical**
- Ontology: space, action and change
- Scene description, moving objects, localisation
- Perceptual grounding
- Spatial systems

**Analytical**
- Experience (empirical)
- Capability analysis
- Projection and explanation

**Practical**
- Sensor / actuator control
- Sensor data processing algorithms
- Smart workspaces

**Applied**
- Security and monitoring
- Assisted living

**Infrastructure**
- Distributed systems
- Device interconnection

**Ethical**
- Privacy and trust
- Personal and data security

**Analytical**
- Dynamic spatial systems
- Security and monitoring

**Analytical**
- Experience (empirical)
- Capability analysis

**Analytical**
- Projection and explanation
- Scene description, moving objects, localisation

**Analytical**
- Ontology: space, action and change

**Analytical**
- Spatial systems

**Analytical**
- Perceptual grounding

**Analytical**
- Spatial systems

**Analytical**
- Device interconnection

**Analytical**
- Distributed systems

**Analytical**
- Sensor / actuator control

**Analytical**
- Sensor data processing algorithms
Invited talk

Speaker

Norbert Streitz

Designing Information, Communication, and Experiences in Ubiquitous Hybrid Worlds

“Keep the Human in the Loop”

People-Centered Design of Information, Interaction, and Experiences

Smart Future Initiative, Germany. www.smart-future.net
Michael Pirker

Spatial and Temporal Modeling for AmI Systems
Industrial Applications

SIEMENS AG, Corporate Technology, Germany. www.siemens.de
Open Calls for journal contributions

Building on contributions to:

STAMI 09 – IJCAI 09 S-T Workshop – AAAI 09 Spring Symposium

- Journal of Spatial Cognition and Computation (application-oriented)
  - Emerging Applications of Spatial and Temporal Reasoning

- Journal of Universal Computer Science (theoretical focus)
  - Advances in Spatial and Temporal Reasoning

Editors: Woelfl, Hazarika, Guesgen, Bhatt