

## LoCA 2007 – Accepted Papers

### Session: WIFI LOCATION TECHNOLOGY

#### *Bootstrapping a Location Service through Geocoded Postal Addresses*

Gayathri Chandrasekaran (Rutgers University, US); Mesut Ali Ergin (WINLAB, Rutgers University, US); Marco Gruteser (WINLAB / Rutgers University, US); Richard Martin (Rutgers University, US)

#### *Deployment, Calibration, and Measurement Factors for Position Errors in 802.11-based Indoor Positioning Systems*

Thomas King (University of Mannheim, DE); Thomas Haenselmann (University of Mannheim, DE); Wolfgang Effelsberg (University of Mannheim, DE)

#### *LifeTag: WiFi-based Continuous Location Logging for Life Pattern Analysis*

Jun Rekimoto (University of Tokyo, JP)

### Session: ACTIVITY AND SITUATIONAL AWARENESS

#### *Scalable Recognition of Daily Activities with Wearable Sensors*

Tam Huynh, Ulf Blanke, Bernt Schiele (TU Darmstadt, DE)

#### *Information Overlay for Camera Phones in Indoor Environments*

Harlan Hile (University of Washington, US); Gaetano Borriello (University of Washington, US)

#### *SocialMotion: Measuring the Hidden Social Life of a Building*

Christopher Wren (Mitsubishi Electric Research Laboratories, US); Yuri Ivanov (Mitsubishi Electric Research Laboratories, US); Ishwinder Kaur (MIT, US); Darren Leigh (Mitsubishi Electric Research Laboratories, US); Jonathan Westhues (Mitsubishi Electric Research Laboratories, US)

### Session: TAXONOMIES, ARCHITECTURES, AND A BROADER PERSPECTIVE

#### *A Unified Semantics Space Model*

Juan Ye (University College Dublin, IE)

#### *Federation and Sharing in the Context Marketplace*

Carsten Pils (Waterford Institute of Technology, IE); Ioanna Roussaki (National Technical University of Athens, GR); Tom Pfeifer (Waterford Institute of Technology, TSSG, IE)

#### *Towards a Taxonomy for Location Fingerprinting*

Mikkel Kjærgaard (University of Aarhus, DK)

Session: THE MEANING OF PLACE

*Inferring the Everyday Task Capabilities of Locations*

Patricia Shanahan (University of California, San Diego, US); William Griswold (UC San Diego, US)

*The Whereabouts Diary*

Gabriella Castelli (University of Modena and Reggio Emilia, IT); Marco Mamei (Università di Modena e Reggio Emilia, IT); Alberto Rosi (University of Modena and Reggio Emilia, IT)

*Adaptive Learning of Semantic Locations and Routes*

Keshu Zhang (Motorola, Inc., US)

Session: RADIO ISSUE IN LOCATION TECHNOLOGY

*How Signal Patterns are Affected by Terminal Movement in CDMA/WCDMA Networks*

Daehyung Jo (Seoul National University, KR); Jeongkeun Lee (Seoul National University, KR); Semun Lee (SNU, KR); Taekyoung Kwon (Seoul National University, KR); Yanghee Choi (Seoul National University, Seoul, Korea, KR)

*Modeling and Optimizing Positional Accuracy based on Hyperbolic Geometry for the Adaptive Radio Interferometric Positioning System*

Hao-ji Wu (National Taiwan University, TW); Ho-lin Chang (National Taiwan University, TW); Chuang-wen You (National Taiwan University, TW); Hao-hua Chu (National Taiwan University, TW); Polly Huang (National Taiwan University, TW)

Session: NEW APPROACHES TO LOCATION ESTIMATION

*Inferring Position Knowledge from Location Predicates*

Joerg Roth (Univ. of Nuremberg, DE)

*Preserving Anonymity in Indoor Location System by Context Sensing and Camera-based Tracking*

Takeshi Iwamoto (KDDI R&D Laboratories Inc., JP); Arei Kobayashi (KDDI R&D Laboratories Inc., JP); Satoshi Nishiyama (KDDI R&D Laboratories, JP)

*Localizing Tags Using Mobile Infrastructure*

Ying Zhang (Palo Alto Research Center, US); Kurt Partridge (PARC, US); Jim Reich (Palo Alto Research Center, US)