

International Ubiquitous Computing Symposium

Ubiquitous Computing at Home and in the Office

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Ubiquitous Computing at Home and in the Office

Ubiquity

- ◆ A Continuing Trend Since 1960's
- ◆ Computing and Communications are Joined at the Hip
- ◆ Hardware and Software Evolution Supports Trend
- ◆ Public Demand and Acceptance is Growing
- ◆ Korea is Perfectly Positioned Due to Unique Forces

Ubiquitous Computing at Home and in the Office

Deployed (Isolated) Ubiquity

- ◆ Home
- ◆ Office
- ◆ Battlefield

Ubiquitous Computing at Home and in the Office

Enabling Technologies

- ◆ Nanotechnology
- ◆ MEMS
- ◆ SoC
- ◆ Conductive Textiles
- ◆ Sensors
- ◆ RFID
- ◆ Wireless Deployments
- ◆ Info Appliances
 - Cell Phones
 - PDAs
 - Tablets
 - WPC
- ◆ Robotics
- ◆ AI and Knowledge Management

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Future Ubiquity

- ◆ **Intelligent Home**
- ◆ **Intelligent Office**
- ◆ **Intelligent Battlefield**
- ◆ **Intelligent Transportation**

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Barriers to Ubiquity

- ◆ **Wireless Deployment**
- ◆ **Perceived "Cost" of Information Appliance**
- ◆ **Form Factor of User Supported Information Appliance**
- ◆ **Electronic "Tower of Babel"**
- ◆ **Existing Infrastructure and "Standards"**
- ◆ **Human Factors and Ergonomics**
- ◆ **Privacy vs. Security Trade-off**
- ◆ **Digital Divide**

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Conclusions and Predictions