

Korea-EU ICT Forum – Convergence Technology Session(June 17, 2008)

1. NT Convergence Components for Next Generation Ubiquitous Terminal Companion - Park, Kang -Ho (ETRI)

- Ubiquitous Terminal Companion (UTC) platform which is next generation terminal to communicate mutually with actual feelings such as **real 3D image and directional sound, smell sense as well as the conventional voice and data within ubiquitous network at anytime and anywhere.**
 - Electro active polymer AF actuator using Ionic Polymer - Metal Composite (IPMC) for Lens Actuators
 - Personal audio space control service : Directivity control using micro speaker array
 - Mobile environmental monitoring services using low power consumption gas sensors
 - U-Chip: reconfigurable process based universal chip which provides high flexibility
 - Energy conversion device: flexible dye sensitive solar cells (world top class efficiency)
- **Collaboration areas :**
 - **Personal Audio Space Control, Reconfigurable Processor**
 - **EU suggested the collaborative work with Korea by providing their strong points such as basic technology or software parts and by getting Korea's outstanding technologies such as personal audio space control service or commercialization technology.**

2. IT-BIO Interface via Nanotechnology - Hong, Seung Hun(SNU)

- (Objective) Development of nano-biosensors to detect biomolecules and signals from organs and cells in real time.
- (Solution) Use "surface-templated assembly" strategy to build nanoscale biosensor transducer based on nanotubes and nanowires.
- **Collaboration Areas :** The followings are the parts that he needs to be provided from EU if the collaborative project is set: : **Development of business model and sensor signal processing method.**

3. Ubiquitous Healthcare - Park, Soo Jun (ETRI)

- Standardized S/W platform compatible to ISO TC215 as a playground for u-Healthcare and applications of u-Healthcare such as Fall detection phone, lifeCoaching, Proactive medication system (PROMES), BioPatch(Bio Signal Monitoring), and BMBmeter.(X-Ray based Bone Mineral Density Measuring System)
- **Collaboration Areas :**
 - **Linkage between game and u-Healthcare**
 - **Service Deployment based on the combination of user requirement, leading technology, and fast commercialization**