

Jeonghoon Kang

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Research Interests

Embedded Networked Sensor System

- OS, Energy-efficient MAC, Multi-hop Routing, Self-organization, Localization
- gathering and interpreting information from large numbers of possibly dispersed sensors

Ubiquitous Computing

- Heterogeneous sensor network, embedded system software, planetary-scale system, service discovery middleware

Work Experience

Researcher (Software Engineer, 1999 – Present)

Digital Media Research Center

Korea Electronics Technology Institute (KETI, Korea, <http://www.keti.re.kr>)

(established by Ministry of Commerce, Industry and Energy)

- Embedded Networked System Software (2002-Present)
 - Comparison of SMAC and TOS-MAC
 - Energy-efficient MAC and multi-hop routing on TinyOS (on-going)
 - In-depth comparison of TDMA-MAC, SMAC and TOS-MAC (on-going)
 - Priority based scheduler on TinyOS (on-going)
 - Context-aware Media discovery middleware (will be started)
- Digital TV Software (2000-2002)
 - Data Broadcasting Protocols on DVB-MHP Set-top Box (x86/Linux)
 - Object Carousel protocol
 - DVB-MHP Transport Stream(TS) Multiplexer (x86/Linux)
 - streaming / piping / multi-protocol encapsulation protocols
 - Middleware on DVB-MHP Set-top Box (x86/Linux, MIPS/VxWorks)
 - porting Java Virtual Machine
- High Definition Digital TV Software (1999)
 - HD level MPEG-2 Transport Stream(TS) Multiplexer and Demultiplexer (x86, Windows)

Software Skills	<p>Programming / Scripting / Markup Languages</p> <ul style="list-style-type: none"> ▪ C, nesC, C++, Java, Pearl, TCL/TCK, PHP, XML, HTML, LaTeX <p>Tools : NS-2, MATLAB</p> <p>Platforms : Linux/x86, Solaris/Sparc, BSD/x86, Windows/x86</p>
Publications	<p>Over 8 research papers (domestic), 4 patents (domestic)</p> <p>(Details on http://pinkfloyd.re.kr/rnd/publication.html)</p> <p>National Technology Roadmap</p> <p>(administrated by Ministry of Science & Technology, Korea)</p>
Education	<p>M.S. Electronic Engineering, Dankook University, Seoul, Korea, 1997 – 1999</p> <ul style="list-style-type: none"> ▪ Image Processing Lab. <p>B.S. Electronic Engineering, Dankook University, Seoul, Korea, 1993 – 1997</p>
Member	<p>Member of IEEE Computer Society</p> <p>Member of ACM</p>
Personal	<p>Hobby is listening music and collecting LP & CD (Rock, Jazz, Classical etc.)</p> <p>Jeonghoon especially loves Classic Rock Music. And likes rock bands such as Pinkfloyd, Yes, King Crimson, Latte e Miele, Osanna etc.</p> <p>Jeonghoon sometimes selects BGM(background music) for a Cable TV Documentary program which is broadcast nationwide in Korea. The documentary is 50 minutes long and produced by Q-channel (http://www.qchannel.co.kr).</p>

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