

The 13th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications

August 21-24, 2007

Daegu, Korea

SCOPE: The 13th IEEE RTCSA will bring together researchers and developers from academia and industry for advancing the technology of embedded and real-time systems and ubiquitous computing applications. The conference has the following goals: to investigate advances in embedded and real-time systems and ubiquitous computing applications; to promote interaction among the areas of embedded computing, real-time computing and ubiquitous computing; to evaluate the maturity and directions of embedded and real0time system and ubiquitous computing technology.

RTCSA2007 invites submissions of papers presenting a high quality original research and development for the conference tracks: (1) Real-time Systems, (2) Ubiquitous Computing, and (3) Embedded Systems.

Track I: Real-Time Systems

- Real-time operating systems and scheduling,
- Timing analysis,
- Fault-tolerance,
- Databases,
- Programming language and run-time systems,
- Middleware systems,
- Design and analysis tools,
- Communications networks and protocols,
- Architectures,
- Formal methods,
- Case studies, and
- Applications

Track II: Ubiquitous Computing

- Real-time issues in ubiquitous computing
- Infrastructure for ubiquitous computing
- Location-dependent and context-aware computing
- Smart sensors and sensor network
- Portable devices and wearable computers
- Passive, active and smart tags
- Software architecture for ubiquitous computing
- Human computer interaction
- Security and privacy

Track III: Embedded Systems

- Operating systems and scheduling
- System-on-chip design
- HW/SW co-design
- Power/thermal-aware design issues
- Embedded multimedia application
- Embedded system design practices
- Networks-on-chip design
- Embedded system architecture
- Design optimization (memory, performance etc.)

Paper Submission

Both research and industry track papers are solicited. Research papers should be full papers describing original research; papers describing new ideas, promising approaches, experiences with practical and research systems are considered particularly appropriate. Industry track papers should describe interesting technical aspects of industrial applications, prototypes, experiences, and standards. Research papers must not exceed 16 pages single-column or 8 pages double-column with 9pt or 10pt font and industry track papers must not exceed 10 pages single-column or 5 pages double-column. Papers should be submitted electronically through our web form in a pdf or postscript format. The material must be unpublished and not under submission elsewhere.

Important Dates

Submission Deadlines	31 March
Notification of Acceptance	12 May
Camera-ready Copy	8 June
(On-line Conference Registration)	to be opened 15 June
Early Bird	25 July
Conference Dates	21-24 August

General Co-chairs

Giorgio Buttazzo, *Scuola Superiore S. Anna, Italy*

Taewhan Kim, *Seoul National U and AITrc, Korea*

Program Co-chairs

Sanjoy Baruah, *U. of North Carolina, USA*
(Real-Time Track)

Naehyuck Chang, *Seoul National U, Korea*
(Embedded Systems Track)

Yoshito Tobe, *Tokyo Denki U, Japan*
(Ubiquitous Computing Track)

Tutorial Co-chairs

Seongsoo Hong, *Seoul National U, Korea*

Chang-Gun Lee, *Seoul National U, Korea*

Publicity Co-chairs

Tulika Mitra, *National U. of Singapore, Singapore*

Joseph K. Ng., *HKBU, HK*

Stefan M. Petters. *NICTA, Australia*

Oleg Sokolsky, *U. of Pennsilvania, USA*

Yasuyuki Sumi, *Kyoto U, Japan*

Registration Chair

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Finance Chair

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Tei-wei Kuo, *National Taiwan U, Taiwan*

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