RTCSA 07 conference

The 13th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications, tries to bring together researchers and developers from academia and industry for advancing the technology of embedded and real-time computing systems and applications. Three tracks were offered in this conference including Real time systems, Ubiquitous Computing and Embedded systems. Two parallel sessions were organized.

Contribution

My contribution to this conference was a paper titled Real-Time Control and Scheduling Co-Design for Efficient Jitter Handling. In this paper we propose an integrated approach for control design and real-time scheduling, suitable for both discrete-time and continuous-time controllers. It guarantees system performance by accepting a certain minimum value of jitter for control tasks and feasibly schedules them together with other tasks in the system. Results from comparison with other approaches from real-time and control theory domains underline the effectiveness of our method.

The following papers were interesting;

- **Contract-Based Reusable Worst-Case Execution Time Estimate.** *(selected as a best paper)*
  Johan Fredriksson, Thomas Nolte, Mikael Nolin, and Heinz Schmidt

- **An Approach to the Timing Analysis of Hierarchical Systems**
  Marco Panunzio and Tullio Vardanega

- **Networked Control Systems : Definition and Analysis of a Hybrid Priority Scheme for the Message Scheduling**
  Guy Juanole and Gerard Mouney

My overall impression is that this conference was good. The acceptance ratio for long papers is (29.6%) and for short papers (14.8%) out of 142 submitted papers, which shows that this conference is getting more important in real time community. More than halve of submissions where from Asia, so there were many Asian researchers at this conference.