

ARTES Travel Report:

Embedded Real-Time Systems Implementation Workshop
in conjunction with the
26th IEEE International Real-Time Systems Symposium
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Introduction

The main goal of my trip was to present a research paper at the Embedded Real-Time Systems Implementation Workshop, a workshop focusing on future techniques and directions in the embedded real-time community. However, since the conference was co-located with the famous International Real-Time Systems Symposium I decided to stay for a few extra days.

The conference took place at the Eden Roc Hotel in Miami Beach, in the sunny state of Florida USA.

ERTSI

This workshop seeks to identify the open issues and key future research directions in the area of embedded real-time systems. The workshop was based on 30 minute paper presentations followed by “round-table” discussions. However, not very many people attended the workshop – and, hence, the discussions were not as interesting and focused as I had expected.

I presented the paper: “Industrial Grading of Quality Requirements for Automotive Software Component Technologies”. The presentation was followed by 15-20 minutes discussions about the results and contributions. Overall I am satisfied with the presentation and the following discussions.

There were a few interesting presentations about component-based development and enhanced quality of service for embedded systems, and at the end of the day, Daniel Mosse from the University of Pennsylvania, Tarek Abdelzaher from the University of Virginia, Chris Gill from Washington University, and Luis Almeida from Universidade de Aveiro concluded with 10-15 minutes presentations about future research areas and open questions. This part was very interesting and gave rise to interesting discussions and some new ideas.

RTSS

The Real-Time Systems Symposium (RTSS) is a very competitive and tradition-bound conference, and the main focus is on scheduling and schedulability analysis. However, RTSS provides a forum for the presentation of high-quality, original research covering all aspects of real-time systems design, analysis, implementation, evaluation, and case-studies.

From my point of view this conference is interesting but far too theoretical. It is indeed interesting to attend the presentations, but I am doubtful about the actual usefulness of many of the topics discussed. Hence I preferred the less competitive and much more applicable discussions during the ERTSI part of the conference.

Miami Beach

Miami Beach is an interesting place. It is a somewhat fancy and exclusive area, but at the same time pretty tacky. My understanding is that not many people live in this area; it is all covered with five-star hotels, restaurants and bars – culminating at Ocean Drive (a beach-strip with hotels, clubs and bars on one side and the beach on the other).

The conference was located at the fancy and beach-front Eden Roc Hotel (see the picture below) about 2 km north from Ocean Drive.



The scenery from the Eden Roc Hotel

Conclusions

My impression from this trip is that the most important aspects going to a conference is the meetings with new and interesting people. I spend a lot of time discussing future research with researchers both from Mälardalen University and from other universities around the world.

The ERTSI conference was interesting, especially the fruitful discussions following the paper presentations. The RTSS was interesting but a bit too theoretical for me.

Overall, I had a great time in the US and after coming home I am more focused then before on my research.