

Presentation of Mälardalen Real-Time Research Centre (MRTC) at Mälardalen University

Mälardalen Real-Time research Centre (MRTC) was initiated by a grant from the Swedish KK-foundation (*Stiftelsen för Kunskap och Kompetensutveckling*) to further develop the real-time research at Mälardalen University (MdH) in close co-operation with Swedish industry. As a result, a group of leading industries has joined the MRTC-effort by supporting industrial graduate students and participating in research projects. Strong support from Mälardalen University, the Swedish Foundation for Strategic Research (SSF; via the programme ARTES) and the Swedish National Board for Industrial and Technical Development (NUTEK/Vinnova) has enabled a fast build up of a focused research programme with a healthy balance between applied and fundamental research.

The research plan for MRTC is based on a three-pronged vision:

1. To provide state-of-the-art competence for industry.
2. To advance basic and applied research in relevant areas.
3. Education for engineers and researchers.

The advancement of these are mutually supportive, in that insights gained in one will guide the advancement in the others.

On a more technical level the guiding vision is to

provide engineers with substantially better tools and methods for the development of real-time computer systems and applications.

In this presentation we will introduce

- the overall organisation, the goals, the funding situation, and the pros and cons of building up of a research organisation at a small university,
- the education in real-time at undergraduate level, graduate level, and programmes for industrial active people, and
- three current research projects in the areas system design, computer architecture and computer science.

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