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Preface

This volume contains the papers presented at the 2nd ARTES Graduate Student Conference, held at Chalmers University of Technology in Göteborg, from March 16 to 17, 2000.

As of today, more than 70 graduate students have joined the ARTES network by registering as Real-Time Graduate Students, and thereby getting access to the benefits provided by ARTES, including free-of-charge participation at the ARTES Summer School, as well as at other ARTES conferences and meetings, not to mention the mobility support provided by ARTES. The 70+ real-time graduate students clearly indicate that a substantial amount of real-time research is conducted in Sweden today. Due to ARTES and other efforts, it is fair to say that Sweden is one of the world-leaders in real-time systems research. During 1999 more than 20 papers authored/co-authored by Swedish researchers were presented at the four leading real-time conferences: IEEE Real-Time Systems Symposium (RTSS), Euromicro Conference on Real-Time Systems (RTS), IEEE Real-Time Technology and Applications Symposium (RTAS) and The International Conference on Real-Time Computing Systems and Applications (RTCSA). In 2000 we expect this number to increase even further. The ARTES Graduate Student conference is one of the ARTES supported activities aiming at ensuring this.

The main idea with the ARTES Graduate Student Conference is to provide a forum for technical presentations and discussions among the Swedish graduate students active in the real-time area. For newly recruited graduate students it will provide an opportunity to experience "a real conference situation" (maybe) for the first time. For everyone, the conference will be an excellent opportunity to, in a relatively short time, get an overview of the current state of the national research.

As an extra bonus, we have invited Prof. Jack Stankovic from University of Virginia, one of the founding fathers of modern real-time systems research. He will give an exciting tutorial on *Feedback Control Real-Time Scheduling*, as well as sharing his experiences and views on the work being presented. Our second invited speaker is Alexander Dean from CMU, who will talk about *Automating Hardware to Software Migration for Real-Time Embedded Systems*.

This conference has been organized with the support from the Department of Computer Engineering at Chalmers, for which we are grateful. I would in particular like to thank Ewa Wäringelin and Jan Jonsson for their excellent support. As always, ARTES deputy programme director Roland Grönroos has provided invaluable assistance in organizing the event.

The papers included in this volume show an impressing width and quality, and I'm certain that the conference will be an event with intense technical and other discussion.

Enjoy it!

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<http://www.docs.uu.se/artes/>
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