

Ladies and gentlemen,

You have just opened the Proceedings of the 12th edition of the **STUDENT EEICT 2006** Competition. The abbreviation in the name of this event is derived from the terms **E**lectrical **E**ngineering, **I**nformation and **C**ommunication **T**echnologies, which describe the priority specializations of the organizing faculties – the Faculty of Electrical Engineering and Communication and the Faculty of Information Technology of the Brno University of Technology.

The competition is aimed to motivate students in working on industrial and grant projects, which is more difficult than a simple defending a diploma thesis. Industrial and grant projects require a significant invention of the researcher and a huge portion of her (his) creativity. Naturally, the perfect engineering processing of the project is the matter of course.

In these proceedings, you can find papers describing the students' competitive projects. These projects were reviewed by academicians of the organizing faculties, were corrected and rearranged by authors in order to meet suggestions of reviewers, and now, they are ready to be defended in front of commissions consisting of industrial specialists, university people and representatives of students.

As already indicated, industrial partners play a very significant role in the frame of the competition. The organizing faculties are highly interested to meet companies' demands both in the education of their potential new employees (today's students of faculties) and in their research. Therefore, the organizers highly appreciate the goodwill of companies to nominate members of commissions evaluating students' projects, to participate in publishing proceedings of the competition, and to financially support the competition.

I hope the 12th edition of the **STUDENT EEICT 2006** competition is successful for all the participants. Students cannot only win prizes but also can hear the opinion on their development from industrial specialists. They can build contacts with companies. Companies can meet excellent students and offer them further cooperation or even job. And teachers can compare results reached by their students with results of students supervised by their colleagues.

I should like to thank all students and participants who contributed to the success of the competition. I believe that all of them have gathered much experience, inspiration and motivation for their further research work and that they will retain pleasant memories of a frank and open atmosphere of the competition.

Prof. Radimír Vrba

*Dean of the Faculty of Electrical Engg. and Communication
on behalf of all the organizers*