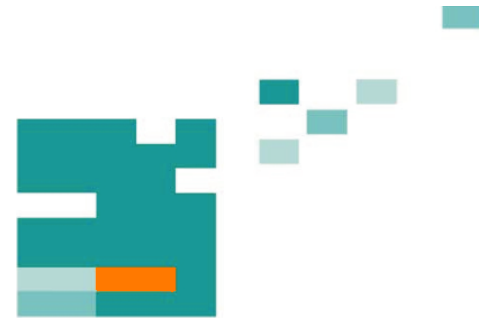


## 55. IWK

Internationales Wissenschaftliches Kolloquium  
International Scientific Colloquium



13 - 17 September 2010

# Crossing Borders within the **ABC**

**A**utomation,

**B**iomedical Engineering and

**C**omputer Science



Faculty of  
Computer Science and Automation

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## Preface

Dear Conference Participants,

It is our great honour and pleasure to welcome you to Ilmenau on behalf of the organizers of the 55th International Scientific Colloquium (IWK).

The IWK looks back on fifty five years of tradition in exchanging scientific ideas and bridging disciplines. In 2010, from September 13 to 17, the central theme is "Crossing Borders within the ABC - Automation, Biomedical Engineering and Computer Science". The Colloquium's structure reflects the interdisciplinary title with 15 workshops and 215 talks.

The common denominator of all International Scientific Colloquiums in Ilmenau is the way the intersecting topics relate to aspects of computer science, engineering, biomedical science and other sciences, treating highly relevant topics in the multidisciplinary manner with the help of many and varied contributing scientists. This is in contrast to many other workshops or conferences, which concentrate on specific applications or subfields of science. The Colloquium series is unique in bringing together and promoting interaction between scientists from various backgrounds and from all over the world. In 2010 it is certain that the 55th International Scientific Colloquium will substantially contribute to the exchange of new ideas and new views in Automation, Biomedical Engineering and Computer Science.

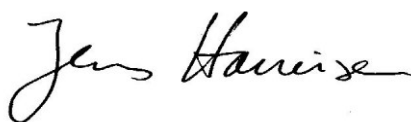
We are very happy that this year many young scientists will contribute to the success of the IWK in various sessions. Young people are a major driving force in science with their fresh ideas and unconventional views. 2010 sees the start of what we hope will be a tradition of special sessions for young scientists.

Without the help of a large number of people the 55th International Scientific Colloquium would not have been possible. We would like to thank all contributors, all reviewers, all sponsors, and Prof. Detschew and his team for the wonderful preparation. Special thanks go to the organizing team of Mrs. Schneider.

With our welcome, we extend to you our good wishes — may you find stimulating conversations and valuable contacts and may your stay at Ilmenau University of Technology bring you an interesting time in our town and its delightful surroundings.



Professor Peter Scharff  
Rector, Ilmenau University of Technology



Professor Jens Haueisen  
Dean of the Faculty of Computer Science and Automation

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