

12.08.-27.08.11



DAAD Deutscher Akademischer Austausch Dienst German Academic Exchange Service

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7th International Summer School in Latvia!!!

# BALTIC SUMMER SCHOOL

Technical Informatics & Information Technology

## CONTACT

### GERMANY:

University of Rostock  
Department of Computer Science

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### LATVIA:

Riga Technical University  
Faculty of Computer Science and Information Technology  
Meza iela 1/4, Riga, LV-1048, Latvia

Local Director: Prof. Dr. Agris Nikitenko  
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### ORGANISER:

Science Confederation IuK, Rostock  
Coordinator: Dr. Christine Bräuning  
Scientific Director: Prof. Dr. Clemens Cap



Funded by the German Academic Exchange Service by means of the German Federal Ministry of Education and Research

## WELCOME TO RIGA

This year, the Science Confederation IuK has organised an International Summer School at Riga Technical University under the aegis of the German Embassy in Riga. The DAAD now supports the Summer School the seventh year.

The International Summer School offers special courses to support the internationalisation of education and the cooperation among the universities of the Baltic Sea Region.

## AIMS:

- Preparation for international Master and Ph.D. programmes in Germany
- Further specialisation in computer science and information technology
- Learning in a stimulating environment

## CONTENT:

- Courses in technical informatics and information technology
- Introduction into academic writing and advanced research topics
- Attendance at conference „Human - Computer Interaction“ and Robotic Cup
- Tutorials and practical work
- Language training for academic talk and presentation
- Excursions and social events

**SPECIAL EVENT**  
→ 23<sup>rd</sup> to 24<sup>th</sup> August 2011  
**BALTIC CONFERENCE „HUMAN - COMPUTER INTERACTION“**



**LOCATION :**  
Riga Technical University  
Faculty of Computer Science and Information Technology  
Meza iela 1/4  
Riga, LV-1048  
Latvia

- ORIENTATION :**
- 1 Welcome Meeting: Svedbank Building, Balasta dambis 1a
  - 2 Courses and Workshops: Faculty of Computer Science and Information Technology, Meza iela 1/4
  - 3 Accommodation: Student Hostel, Azenes iela 22a
- ✈ From Riga Airport you can take the Bus No. 22 to City centre.

**TARGET GROUP:**  
Students and professionals in the field of Informatics, computer or electrical engineering

**REQUIREMENTS:**  
• A completed Bachelor's Degree in Informatics, computer or electrical engineering or similar subject  
• Good knowledge of German and/or English language

**APPLICATION PROCEDURE:**  
Send the following documents to the contact address in Germany:  
• Letter of Intent  
• Short Curriculum Vitae  
• Certificate of Examinations or Academic Transcript  
• Language Certificate for German and/or English  
• (optional) Letter of Recommendation  
Or use online registration at our website:  
<http://basoti.uni-rostock.de>

**DEADLINE FOR APPLICATION:**  
8<sup>th</sup> June 2011

**INFORMATION TO SUCCESSFUL APPLICANTS:**  
10<sup>th</sup> June 2011

**AVAILABILITY OF LECTURE MATERIALS:**  
15<sup>th</sup> July 2011

**DEADLINE FOR CONFERENCE PAPERS:**  
8<sup>th</sup> June 2011

DAY	9:00 - 10:30	10:45 - 12:15	13:30 - 15:00	15:15 - 16:45	17:00 - 18:30	19:00
12.08.	Welcome	Placement Test	Visit IT Company	Visit Robotic Lab	City Tour	Welcome
13.08.	Academic Presentation Course	Lecture A	Lecture B	Lecture C	Lecture C	Evening Talk
14.08.	Academic Presentation Course	Lecture A	Lecture B	Lecture C	Lecture C	Evening Talk
15.08.	Academic Presentation Course	Lecture A	Lecture B	Lecture C	Lecture C	Evening Talk
16.08.	Student Presentations	Lecture A	Lecture A	Lecture B	Lecture B	Evening Talk
17.08.	Lecture C	Tutorial C	Academic Writing	Academic Writing	Academic Writing	Evening Talk
18.08.	Lecture D	Lecture E	Lecture D	Lecture E	Lecture D	Evening Talk
19.08.	Lecture D	Lecture E	Lecture D	Lecture E	Lecture D	Evening Talk
20.08.	Lecture D	Lecture E	Lecture D	Lecture E	Lecture D	Evening Talk
21.08.	Lecture D	Lecture E	Lecture D	Lecture E	Lecture D	Evening Talk
22.08.	Lecture F	Lecture F	Lecture F	Lecture F	Lecture F	Evening Talk
23.08.	Introduction Robo Cup	Student's Talk	Conference	Alumni Meeting	Studying in Germany	Evening Talk
24.08.	Conference	Conference	Conference	Conference	Conference	Evening Talk
25.08.	Team Contest Robo Cup	Feedback	Feedback	Feedback	Feedback	Evening Talk
26.08.	Excursion / Guided Tour 2	Excursion / Guided Tour 2	Excursion / Guided Tour 2	Excursion / Guided Tour 2	Excursion / Guided Tour 2	Evening Talk
27.08.	Exam (Part 1)	Exam (Part 1)	Exam (Part 1)	Exam (Part 1)	Exam (Part 1)	Evening Talk
27.08.	Exam (Part 2)	Exam (Part 2)	Exam (Part 2)	Exam (Part 2)	Exam (Part 2)	Evening Talk

**DURATION AND CERTIFICATE:**  
The Summer School takes 16 days and contains six special modules, one module „Academic Presentation“ (German or English) plus individual research and studies for the module „Academic Writing“ with a total amount of 8 credits. Credits are allocated, based on student's workload (ECTS-system).

The Summer School ends with a final exam. On successful completion of the courses, a certificate, which confirms the ECTS-credits earned as well as the grade, is awarded. The certificate is signed by all lecturers and includes a detailed description of the content and number of the courses attended.

**PLANNED TOPICS AND LECTURERS:**

- **MODULE A: Digital Social Media**  
Prof. Dr. rer. nat. Clemens Cap, Rostock
- **MODULE B: Error-Control Coding for Data Networks**  
Prof. Dr.-Ing. Andreas Ahrens, Wismar
- **MODULE C: Network and Cloud Computing**  
Prof. Dr.-Ing. Peter Sobel, Dresden
- **MODULE D: Model Driven Software Development**  
Prof. Dr. Ing. sc. Oksana Nikitorova, Riga
- **MODULE E: New Standards for short-range networks and their applications**  
Prof. Dr.-Ing. Andreas Könsen, Bremen
- **MODULE F: Design and implementation of an autonomous humanoid robot**  
Dipl.-Ing. Christian Fabian, Rostock
- **ROBOTIC LAB: AUTONOMOUS ROBOTIC SYSTEMS**  
Prof. Dr. Ing. sc. Agris Nikitenko, Riga

**BENEFITS:**

- Free accommodation
- No fee for students
- Reimbursement of travel costs for participants from the Baltic states and neighbour states

**TOTAL TIMES:**  
Lectures: 48 hours  
Tutorials: 12 hours  
Practical Work: 16 hours  
Academic Presentation: 4 hours  
Academic Writing: 4 hours

## INFORMATION

## APPLICATION

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HELSINKI

TALLINN

TARTU

RIGA



KAUNAS VILNIUS

WISMAR ROSTOCK

BREMEN

WARSAW

BERLIN

DRESDEN

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Organised by Science Confederation iuk,  
University of Rostock

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**TOPICS**

- Digital Social Media
- Error-Control Coding for Data Networks
- Network and Cloud Computing
- Model Driven Software Development
- New Standards for short-range networks and their applications
- Design and implementation of an autonomous humanoid robot
- Autonomous robotic systems

**APPLICATION FOR FREE PARTICIPATION**

TARGET GROUP → Students and professionals in the field of informatics, computer or electrical engineering

REQUIREMENTS → A Bachelor's Degree in informatics, computer or electrical engineering or similar subject → Letter of Intent → Short Curriculum Vitae → Certificate of Examination or Academic Transcript → Language certificate

Send the documents to the contact address or use online registration at our website:

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**CONTACT & INFO**

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Scientific Director: Prof. Dr. Clemens Cap

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