MASTER'S STUDIES IN COMPUTER SCIENCE
AT RWTH AACHEN UNIVERSITY
Dear student,

I am pleased that you are interested in graduate studies at RWTH Aachen University. Since our technical university is constantly striving to improve its research and teaching performance, we want to attract the best students from all over the world. In return we offer you top-level study and research opportunities in Engineering, Natural Sciences and other fields as well as important connections to German companies.

As you may know, RWTH Aachen University is one of Germany’s most renowned technical universities. Due to its outstanding performance in the Excellence Initiative of the German federal and state governments, it has further enhanced in reputation. Top-level students from Asia, Africa, America and Europe already benefit from RWTH Aachen University’s top level achievements in education and research. Numerous partnerships between RWTH Aachen and international companies offer you great professional and personal perspectives.

The Computer Science Department at RWTH Aachen University is among the top institutions in computer science teaching and research — not just in Germany, but in all of Europe. And we are determined to keep it that way. That’s why we are recruiting top students with the drive to develop the fascinating technologies that will shape the future.

Prof. Dr. Ernst Schmachtenberg
Rector of RWTH Aachen University
The excellent reputation of RWTH Aachen University in engineering extends far beyond Germany. With 31,000 students, over 400 professors and 9,000 staff members, the university is the driving force for research and education in the entire region. Nowhere else does a computer science department work so closely together with engineering, nowhere else are the collaborations as varied, intensive, and productive. Numerous joint projects with various engineering departments demonstrate the strength of these connections. Find out more about RWTH Aachen University’s strategic program “RWTH 2020 — Meeting Global Challenges”.

Research and university rankings consistently place RWTH Aachen University at the top of their lists. In April 2009, for example, a ranking by Human Resource Directors from across the country named RWTH the best university in Germany. And in September 2009, the German National Science Foundation DFG declared RWTH the most successful competitor for its research grants — and not for the first time.

The technology region in and around Aachen shows a strong focus on IT research: It’s no coincidence that international market leaders such as Apple, Ericsson, Ford, Philips, T-Systems, Generali Deutschland, and Microsoft have chosen Aachen as their location for research in the previous years. Moreover, thirteen technology parks invite startup companies to establish themselves around the university — more than 1200 have been founded in the last two decades alone.

www.excellence-initiative.com/aachen-2020

TOP RESEARCH — HERE AND NEXT DOOR

Just 35 kilometres away from Aachen lies the Forschungszentrum Jülich, one of the largest research centers in Europe. More than 4,000 staff members work to solve the multi-disciplinary challenges our society is facing in the areas of health, energy & environment, and IT. The Jülich–Aachen Research Alliance (JARA) tightly connects the center to RWTH Aachen University. Four Fraunhofer research institutes conduct applied research and technology transfer in Aachen.

www.fz-juelich.de

PREMIER LEAGUE

Membership in national and international networks of top institutions documents the leadership position of RWTH. In the IDEA League, RWTH Aachen University cooperates with four leading European Technical Universities — Imperial College London, TU Delft, ETH Zurich, and ParisTech — on shared strategies and quality standards as well as joint degrees and research endeavors. Within Germany, the TU 9 Alliance of the top technical universities is a key player in shaping the national framework for excellent research and teaching.

www.idealeague.org/about  |  www.tu9.de/tu9

Wirtschaftswoche, the leading German economics magazine, wrote in their ranking (April 2009):

“NEVER BEFORE WAS THERE SUCH AN OVERWHELMING SUCCESS. IN FIVE CATEGORIES, RWTH AACHEN UNIVERSITY WAS RANKED FIRST: ELECTRICAL ENGINEERING, INFORMATICS, MECHANICAL ENGINEERING, NATURAL SCIENCES, AND BUSINESS ENGINEERING”
Aachen is a young city, with students from RWTH and other institutions, that at the same time has a rich history as a medieval imperial capital. In fact, you’ll find Germany’s first UNESCO world cultural heritage site here. The Aachen research region lies in the center of Western Europe. The triangle of Germany, Belgium, and the Netherlands offers a great quality of life and excellent research connections to the neighboring universities. Paris, London and Brussels are just a few hours away by train. Perhaps this is the reason why Aachen offers such an open and future-oriented atmosphere. Europe is right here.

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<td>London</td>
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<td>455 km</td>
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<td>144 km</td>
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<tr>
<td>Cologne</td>
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As one of the most successful and highest-ranked computer science departments in Germany, we participate in three of the Clusters of Excellence and doctoral schools recently awarded within the German excellence competition. Well ahead of most German computer science departments, RWTH Informatik introduced competitive international English-language Master’s programs a decade ago. RWTH Informatik graduates about 220 Master’s students per year, about one third of them in our international English-language Master’s programs. Twenty to twenty-five doctorates in computer science are granted annually, offering our graduates leading positions in universities, research institutes, and industrial R&D around the world.

RWTH Informatik offers unique opportunities to do research across traditional disciplinary boundaries: cooperation with Aachen’s world-leading engineers brings our information and software technologies to the engineering products that have made Germany the world’s leading export nation. The industrial competence gained in such projects enhances the qualifications of our graduates.

RWTH Informatik attracts top bachelor graduates from all over the world through its International Master’s Programs in Software Systems Engineering and Media Informatics. International doctoral training centers in no less than four areas of computer science offer excellent perspectives for those interested in continuing beyond the Master’s degree. The international flavor of Master’s studies at RWTH Aachen University includes numerous student exchange programs with leading universities in Europe and beyond. And the reputation of RWTH is spreading: RWTH Informatik also contributes actively to the Master’s programs of the Thai German Graduate School of Engineering at King Mongkut University of Technology, Bangkok, and to the new German University of Technology in Oman.
CREATING ESSENTIALS OF FUTURE TECHNOLOGIES

As a Master’s student, you participate in the world-class research of RWTH Informatik faculty and research institutes in the following fields:

**Excellence in Fundamentals and Software Systems**
Basic research complements the strong practice-orientation of RWTH Informatik creating the strong fundamentals on which future breakthroughs and quality in software technology and applications are built.

**Excellence in Information and Communication**
Information management, data analysis and future communication technologies go hand in hand in top research activities such as Aachen’s UMIC Excellence Cluster on Mobile Communications, funded directly by the German National Science Foundation, DFG.

**Excellence in Visualization and Simulation**
In addition to theory and experimentation, simulation has become the third pillar of science and engineering. RWTH Informatik has taken a leadership role in high performance simulation and multimedia visualization, not the least through access to Europe’s fastest supercomputer in the Forschungszentrum Jülich.

The next pages illustrate how the competence centers of RWTH Informatik benefit all of us.

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**Excellence in Fundamentals and Software Systems**

**WHO MAKES EUROPE’S SPACE MISSIONS SAFER?**

The European Space Agency ESA seeks to reduce the risks of control software defects in spaceflight systems by using methods and software tools that find such bugs automatically. Since February 2009, the Software Modeling and Verification Chair at RWTH Aachen University leads a challenging new project to evaluate error-freeness and performance of spacecraft hardware and software. Together with the Italian Bruno Kessler Foundation, the Chair will develop new software tools that avoid the risks of deadlocks and provably predict the reliability of a new mission. Typical for RWTH Informatik is the interdisciplinary, international, and industry-oriented research: the resulting methods and tools will then be implemented on modern space systems in cooperation with a French company.
Seamless mobile WLAN access everywhere in the city of Aachen and in its rural environment around historic Monschau town will soon be launched in a ground-breaking demonstration project.

Despite the trend towards mobility in our society, fast mobile Internet coverage remains a problem in rural or small-city areas where the infrastructure investment for centralized UMTS or WiFi solutions is not economically feasible. At the same time, local WiFi community solutions often suffer from lack of seamless user experience and security gaps.

The Mobile ACcess approach by RWTH Informatik: with more than 22 million DSL connections, Germany already has the potential for wireless broadband access anywhere. However, an attractive concept for the shared usage of these capabilities has still been lacking. Assuming the cooperation of thousands of network participants, it must ensure high security, lawful usage of multiple private and public broadband installations, and a seamless user experience on the move. Interaction and communication services like the Web 2.0 are thus becoming even more attractive for mobile users.

Mobile ACcess, a practice-oriented project in the context of the excellence cluster UMIC, is far more than just mobile Internet. Highly attractive value-added services, such as augmented-reality, in-town navigation and interaction, are enabled. For example, a user may take a photo with a mobile device, and a central localization server determines position and direction by comparing with a database or 3D city model.

Patients waiting for a suitable heart transplant benefit from advanced blood pumps. However, such “Ventricular Assist Devices (VAD)” cannot yet be used continuously, as the long-term running of blood through the pump causes toxic reactions in the body.

RWTH researchers from engineering and Informatics are cooperating in the development of the next generation of VADs. These pumps will cause less damage and will be small enough to work even in children. The methods for automated high-performance differentiation developed by RWTH Informatik enable engineers to optimize the necessary simulation models of blood flow and blood toxicity. Even then, the simulations are so time-consuming that they can only run on supercomputers like the one at Forschungszentrum Jülich. To accomplish this, RWTH Informatik researchers also developed methods for the parallel optimization of these programs.

Special interactive Virtual Reality methods make the complex data sets interpretable by human users. Special challenges are posed by visualizing the interaction between the moving geometry of the driving wheel within the blood pump and the deformation of a blood cell; with the visualization by RWTH Informatik, the movement of individual blood cells in the pump can be followed, and we can observe even the “tank treading”, a natural protection mechanism in which the membrane surrounding the blood cell rotates around its content.

RWTH Aachen University’s credo “meeting global challenges” becomes true only in cooperation across disciplinary boundaries. It is therefore not surprising that medical specialists from Europe as well as from the US are involved in this important project.
In this picture you can find a twice-elected president of the German Informatics society GI, director of a Fraunhofer Institute, and deputy chair of Excellence Cluster UMIC; a former member of the German Science Council and chair of the DFG reviewer panel in computer science as well as Honorary PhD from the Bulgarian Academy; the chairman of the council of German Informatics and Engineering faculties 4InG and speaker of a collaborative research center; the president of the senate of RWTH Aachen University with an honorary doctoral degree from Ecole Normale Superieure de Cachan, Member of the Academia Europaea, also former chair of the DFG reviewer panel in computer science; a winner of the academics young researcher award 2007 and a winner of the Heinz-Maier-Leibniz award; and the deputy chair of the Gauss alliance and member of the IT commission of DFG.
The Master of Science in Computer Science, taught mostly in German, provides its graduates with the competencies for a broad spectrum of opportunities, for example in
- interdisciplinary research
- administration and financial institutions
- automation technology, e.g., in automotive and production engineering
- consulting firms, vendors, and IT application enterprises specialized in hardware and software systems, data and communication management.

The regular study duration is two years with a total of 120 credits according to the European ECTS system. Course modules worth 90 credits can be assembled according to the interests of students, with certain regulations to guarantee sufficient breadth. To ensure cross-disciplinary competence, 18 credits must be achieved in an application minor, such as business, engineering, medicine, mathematics, the humanities, or a natural science. The lectures, seminars, and lab courses for the remaining 72 credits are organized in the four areas of theoretical computer science, software and communication, data and information management, and applied computer science; students can take up to 35 credits in any of these areas but have to take at least 12 credits in theoretical computer science. In addition, students choose a research focus in one of the following research areas, where they also participate in a research focus colloquium:

- algorithms and complexity
- automata and logic
- software engineering, modeling, and verification
- computer graphics
- multimedia and human-machine interaction
- databases and information systems
- knowledge-based systems
- data exploration and computer-assisted learning
- embedded systems
- high-performance computing
- communication systems
- pattern and speech recognition

The Master’s thesis (30 credits) reports on a six-month project that demonstrates your ability to solve a problem of computer science on your own, using scientific methods.

DESIGNING YOUR OWN MASTER’S PROGRAM

The structure of the RWTH Computer Science Master’s degree pursues two aims. On the one hand, it enables specialization in a particular direction: combining a Business minor with a specialization on databases and information systems complemented with software engineering provides an IT-oriented business engineering degree. Other foci can be defined: e.g., in the field of mobile information and communication, in combination with a minor in electrical engineering, or in bioinformatics. On the other hand, you can also pursue a generalist approach where credits are distributed more evenly across the four areas.

“UPON GRADUATION OUR STUDENTS TELL US AGAIN AND AGAIN HOW PROUD THEY ARE OF EVERYTHING THEY HAVE ACCOMPLISHED HERE. OUR PROGRAM PRESENTS SIGNIFICANT CHALLENGES – MASTERING THEM CAN BE HIGHLY SATISFACTORY. IF YOU SUCCEED HERE, YOU CAN ALSO PASS OTHER HURDLES, AND STUDENTS AND PROFESSORS REALLY WORK TOGETHER. THAT HELPS – AND IT CREATES BONDS THAT OFTEN GO FAR BEYOND THE STUDY TIME.”

Prof. Wolfgang Thomas
INTERNATIONAL MASTER’S PROGRAM IN SOFTWARE SYSTEMS ENGINEERING

The Master’s program in Software Systems Engineering is primarily intended for international students holding a Bachelor’s degree in Computer Science, Computer Engineering, or a closely related field. The program aims to attract excellent students from all over the world. Courses are offered entirely in English. To successfully complete the program, students are required to earn 120 ECTS credits, including 30 credits for the Master’s thesis and 10 credits for German language classes. German is not an entrance requirement.

Building on the strengths of RWTH Informatik, the program focuses on the design and implementation of complex software systems, including their embedding in technical and socio-technical systems.

The degree program is organized very similar to the Master in Computer Science, with one notable difference beyond the language of teaching: instead of the 18 credit application minor, students follow a special curriculum of lectures and a team lab course focusing on the development strategies projects for large-scale software-intensive systems and their project management.

RWTH Informatik is involved in numerous networks with international universities and cooperates closely with the DAAD exchange service. Watch out for scholarships or research assistantships available as financial support to our best students.

www-i5.informatik.rwth-aachen.de/msc

B-IT INTERNATIONAL MASTER’S PROGRAM IN MEDIA INFORMATICS

The Bonn-Aachen International Center for Information Technology (B-IT) is a joint institute of RWTH Aachen University and the University of Bonn, offering interdisciplinary international Master’s programs in Media Informatics and Life Science Informatics since 2003. Currently, about 180 Master’s students from more than 40 countries study at B-IT; graduates have an excellent placement record in the software, media, communications, and life science industries as well as in leading research institutions worldwide. Since 2008, the B-IT Research School offers the opportunity to continue graduate studies beyond the Master’s towards a doctorate.

The international Master’s program in Media Informatics will educate you to successfully master the novel technical and economic challenges at the crossroads of computer science, software engineering, next-generation communication systems, and media. 90 course credits must be obtained in three main blocks:

• Computer science and mathematical foundations
• Multimedia Technology
• Media science and business aspects.

The program is distinguished by a significant proportion of research lab courses embedded in basic and applied research of the Fraunhofer Institutes of Applied Information Technology (FIT), and Intelligent Analysis and Information Systems (IAIS), as well as in industry. Major topics include, e.g.: Internet Infrastructures and Data Communication, Digital Interactive Media, Management of Information, Computer Graphics/Animation/Visualisation, Speech/Image/Video Processing and Technology, Security and Cryptography, Cooperative Work Environments, E-Business and Knowledge Management, Virtual and Augmented Reality, and Game Design.

The program also includes methodological aspects of designing interactive systems from the perspectives of software engineering, human-computer interaction (HCI) and usability, media design, and business requirements. The final six months of the program are dedicated to the 30 credit Master thesis, which can be completed in cooperation with industry.

www.b-it-center.de
A MASTER’S DEGREE IS NOT ENOUGH FOR YOU?
INTERNATIONAL DOCTORAL TRAINING OPPORTUNITIES

The Master’s degree is an excellent starting point for your industrial career. But some students are looking for more scientific challenges. As a leading research university, RWTH Aachen University offers numerous opportunities for doctoral studies, either as a research assistant working on challenging projects or as a doctoral student supported through a fellowship or scholarship. In addition to supervision in writing your doctoral thesis, RWTH Informatik provides structured guidance in the process through no less than four focused research schools, each geared towards specific interests:

- If you are interested in fundamentals of computer science and related disciplines, the DFG-funded Doctoral Training Group for Algorithmic Synthesis is a great resource.
- If you like mathematics and high-performance computing, the Jülich-Aachen Graduate Research School for Simulation Sciences offers many challenges. Candidates with interest in the boundary of mathematics, computer science, and engineering meet their peers in the Aachen International Graduate School for Computational Engineering Sciences.
- If you are interested in application-oriented IT research, the Bonn-Aachen International Research School on Applied Informatics offers specializations in Media and Human-Computer Interaction, Computer Graphics, Data Mining and Pattern Recognition, Software and Information Engineering, Software for Communication Systems, IT Security, Life Science Informatics, and Formal Foundations.

“While studying in Odessa Polytechnic University, I got a DAAD brochure that helped me learn a lot about Germany and its universities. I chose RWTH Aachen University. It is situated in the center of Western Europe. The university has high rankings in satisfaction of students, level of staff proficiency and the number of research projects. Also, it has an impressive record of high-quality publications in technical fields. During my first half six months in Aachen I learned a lot: to be responsible, independent, disciplined. I found out that students acquire knowledge differently from the students in my country. Such observations helped me study more efficiently myself. Although I was far away from my family, I didn’t feel alone. I got acquainted with guys and girls from all over the world: it was amazing to work together in such multi-cultural groups and to figure out the solutions in practical and theoretical courses. The international office of RWTH Aachen University does not give international students an opportunity to feel lonely, dull or confused. There are always people that can help you to solve the day-to-day problems and there are always invitations to excursions and other meetings. Those were very helpful to learn about Germany, its history and cities as well as about other countries, cultures and people.

When I had finished my Master’s thesis, I had many job offers in Germany and other countries. However, I was so excited by my Master’s thesis that I decided to continue my research in the domain of e-learning, web media and social networks. Working is surely different from studying but I’ve always liked how friendly and open people are here.”

Zina Petrushyna

Former International Master’s Student
Zina Petrushyna from Ukraine is now aiming at her PhD at RWTH Informatik within an international research project on technology-enhanced learning.
“COMPUTER SCIENCE OFFERS ME THE CHANCE TO COMBINE MY PASSION FOR MATHEMATICS AND LOGICAL THINKING WITH EXCITING PRACTICAL APPLICATIONS. RWTH INFORMATIK PROMOTES MY CREATIVITY THROUGH THE MANY DIFFERENT WORKING GROUPS I CAN COOPERATE WITHIN MY RESEARCH FIELD, IT SECURITY. IT SECURITY DEMANDS A HIGH DEGREE OF COMMUNICATION AND NETWORKING ABILITIES. I HOPE TO CONVEY MY ENTHUSIASM FOR TEACHING AND RESEARCH, ESPECIALLY TO BRING MORE WOMEN INTO OUR FIELD.”

Daniel Schmitz, Master’s Student at RWTH Aachen University

“STUDYING COMPUTER SCIENCE IN AACHEN ALREADY GIVES ME THE FEELING OF BEING IDEALLY PREPARED FOR WORK LIFE. TOUGH FIRST MONTHS IN THE PROGRAM, THE CHANCE TO CHOOSE A FASCINATING AREA OF SPECIALIZATION AND TO JOIN RESEARCH WORK, PROMOTED MY ABILITIES A LOT. AND ESPECIALLY IN AACHEN, I FIND STRONG INTERFACES TO SOME OF THE MOST IMPORTANT COMPUTER SCIENCE APPLICATIONS.”

Ulrike Meyer, Professor of IT Security within the UMIC Research Center

“STUDYING COMPUTER SCIENCE IN AACHEN PRESENTED CHALLENGES TO ME I HAD NEVER IMAGINED BEFORE. INITIALLY, IT WAS TOUGH — THE PROGRAM DEMANDS FULL EFFORT. BEING INVOLVED EARLY IN A RESEARCH PROJECT, HOWEVER, ENABLED ME TO IMMEDIATELY APPLY WHAT I HAD LEARNED; OBVIOUSLY, THIS MOTIVATED ME A LOT FOR ADVANCED STUDIES.”

Martin Lang, Incoming Master’s Student from RWTH Bachelor
As in a Good Family: All Belong Together

As the program has high demands on students, there is a strong team spirit throughout the RWTH Informatik building in Aachen. There are duties, but also freedoms: no top-down attitude, but a nice, almost family-like atmosphere. This holds for both the students and the relationships among the different research groups. The age structure of the 27 professors is well distributed, leading to many joint activities.

You cannot just switch off the enthusiasm for computer science after a day of studying. The joy of research and experimentation reaches far into the free time. Joint sports activities are pursued regularly—studying hard and having fun go hand in hand.
FOR THE HR DIRECTORS OF THE 500 LARGEST GERMAN COMPANIES IN GERMANY RWTH INFORMATIK IS THE FIRST CHOICE

RWTH Informatik is constantly found among the top three computer science departments in the most important German research rankings. Human resource managers of the top 500 German companies rank RWTH Informatik graduates as number one.

RANKING WIRTSCHAFTSWOCHE 2009 — COMPUTER SCIENCE*

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THE FUN OF RESEARCH

For several years, students from RWTH Informatik have consistently won the Data Mining Cup competition—in 2008, they occupied the top 8 places among several hundred participants. RWTH students and young researchers also excel in other competitions, winning the two first homecare robotics competitions within the famous RoboCup world championships, and reaching top-three placements in competitions for autonomously-driven model cars.

www.data-mining-cup.com/2008/Wettbewerb/Preise
www.robocup.rwth-aachen.de
www.galaxis.rwth-aachen.de

The “OldEurOpe” team from RWTH Informatik won the “capture-the-flag” hacker competition 2009, distancing second-placed “HackerDom” team from Ural State University in Russia. The team won in all three categories (offensive, defensive, and ethical) among the 34 international participating teams.

www.cipher-ctf.org/cipher5

* Best graduates by opinion of Human Resource Directors, numbers in percent

“The success of your personal career is predicated through the RWTH challenges you have mastered. Each individual Master degree has a special value: acquiring the RWTH Master’s documents shows that you are a master in your field. Alumni of RWTH Aachen University know this. As decision makers in large projects or in similar jobs, they hold the value of an RWTH Master’s or doctoral degree in high esteem. Many RWTH Aachen Informatik graduates have been involved in the founding of the more than 1200 startup companies, which have created over 40,000 jobs in the Aachen region over the past 20 years. Special courses within the Master’s programs and by the RWTH Entrepreneurship Center will provide you with the necessary background if you consider this exciting perspective.

“STUDYING COMPUTER SCIENCE AT RWTH AACHEN HAS GIVEN ME THE UNDERSTANDING OF LEADING EDGE TECHNOLOGY WHICH I NEED TO STEER R&D. I CONTINUE TO PROFIT TODAY FROM THE METHODS WHICH I HAVE LEARNT AT AACHEN.”

After bachelor studies at Cambridge University (UK) and his Informatics degree at RWTH Informatik, Peter Möckel is currently Director of the Deutsche Telekom Laboratories in Berlin, where he heads an R&D team of over 300 people towards novel telecommunication technologies and applications.
WHAT YOU SHOULD KNOW

FINANCE

Your expenses, comprising tuition fees, rent, health insurance and food, will be at least 700 € per month (if you enroll in a public Master’s program).

MANAGEABLE FINANCIAL LOAD

If you have demonstrated strong academic performance, you can apply for a scholarship which helps you fund your graduate studies.

You can also cover the costs of your study program by working as a research or teaching assistant at a university department. Such a position is often linked to ongoing research projects, provides an excellent complement to your degree program, and frequently serves as a springboard to doctorate level studies later on.

LANGUAGE

If you wish to enroll into a German-taught Master’s program, you will have to provide evidence of your German language proficiency. If your program is taught in English, good German language skills are not mandatory. It is highly recommended however that you are able to communicate in German – for study, work, or socializing.

German language skills will help you feel at home in Aachen and at RWTH, and facilitate your social participation and professional interactions, enabling you to get the most out of your study abroad experience.

GERMAN LANGUAGE SUPPORT

RWTH Aachen University offers a variety of German language courses, specifically designed for international students. Registration for all of these courses is free of charge.

CREATING ESSENTIALS OF FUTURE TECHNOLOGIES

RWTH INFORMATIK FACULTY

Erika Abraham
Thomas Berlage
Paolo Bientinesi
Christian Bischof
Jan Borchers
Jürgen Giesl
Erich Grädel
James Gross
Klaus Indermark (em.)
Matthias Jarke
Joost-Pieter Katoen
Leif Kobbelt
Stefan Kowalewski
Thorsten Kühlen
Gerhard Lakemeyer
Bastian Leibe
Horst Lichter
Ulkir Meyer
Manfred Nagl (em.)
Uwe Naumann
Hermann Ney
Walter Oberschelp (em.)
Wolfgang Prinz
Thomas Rose
Peter Rossmanith
Bernhard Rumpe
Ulrik Schroeder
Thomas Seidl
Otto Spaniol
Wolfgang Thomas
Berthold Vöcking
Klaus Wehrle
Felix Wolf

Theory of Hybrid Systems
Life Science Informatics
Automation and High Performance Computing
Scientific Computing
Media Computing and Human-Computer Interaction
Programming Languages and Verification
Mathematical Foundations of Computer Science
Mobile Network Performance
Software Modeling and Verification
Information Systems and Database Technology
Software Modeling and Verification
Computer Graphics and Multimedia
Software for Embedded Systems
Virtual Reality
Knowledge-Based Systems
Mobile Multimedia Processing
Software Construction
IT-Security
Software Engineering
Software and Tools for Computational Engineering
Human Language Technology and Pattern Recognition
Logic and Theory of Discrete Systems
Cooperation Systems
Process Management
Theoretical Computer Science
Software Engineering
Computer-Supported Learning
Data Management and Data Exploration
Communication Systems
Theory of Discrete Systems
Algorithms and Complexity
Distributed Systems
Parallel Programming

Whatever field of activity you are aiming at—RWTH Informatik is always outstanding, if your way leads you into research. Become a RWTH Master—get in touch with us: master@informatik.rwth-aachen.de