



# in.tum.quarterly

For students and employees of the TUM Department of Informatics

Issue 2016/02



Prof. S. Albers

Photo: TUM

## ERC Advanced Grant for Prof. Albers

Prof. Susanne Albers won in the latest round of ERC grants from the European Research Council (ERC), which are among the most distinguished research awards in Europe. She has been awarded an ERC Advanced Grant for her project „APEG“ (Algorithmic Performance Guarantees).

Prof. Albers is investigating new techniques for the development of efficient algorithms.

[www.in.tum.de/Albers\\_Grant\\_eng](http://www.in.tum.de/Albers_Grant_eng)

## Interface School - University

Robert Heiningger is the new person in charge of the interface School - University. In this position he aims to support school students at a range of age levels who plan to study informatics at the TUM. Heiningger seeks to dismantle fears of contact and false expectations. Events like the „Girls' Day“, the „Students' Day“ or the „Pupils' Academy“ offer opportunities to obtain information.

Robert Heiningger is looking forward to welcoming groups interested in visiting the Informatics Department, the „ITüpferl“ visitor center and in extensively testing the parabolic slide.

[www.in.tum.de/interface](http://www.in.tum.de/interface)



Photo: J. Föhling

R. Heiningger

## CeBIT: Graduation and Start-up

At the CeBIT in Hanover, German Federal Research Minister Prof. Johannanna Wanka congratulated the 17 „Software Campus“ graduates on their success. One of them was TUM Informatics Ph.D. student Maximilian Junker (Chair for Software & Systems Engineering). Software Campus is an executive development program which trains and professionally develops tomorrow's senior IT executives in Germany.

Furthermore Junker and three other Ph.D. students from his research group presented at the CeBIT their Start-up „Qualicen GmbH“. They offer advice and support to companies to create high quality requirements and systems tests. At the CeBIT the young entrepreneurs mainly intended to expand their client base.

[www.in.tum.de/softwarecampus](http://www.in.tum.de/softwarecampus)  
<https://www.qualicen.de/en/>



## Bye bye SPENCER!

After 36 months the EU-funded research project „SPENCER“ deployed in its final demonstration at the Amsterdam Schiphol Airport a fully autonomous mobile robot for smart passengers flow management.

Its tasks include guidance of short-transfer time passengers from their gate of arrival to the priority lane of the Schengen barrier and mobile information provision. The end-user in the consortium is KLM.

One of the six university partners was the TUM Computer Vision Group, headed by Prof. Daniel Cremers. Over the years, the group has developed a novel Active Learning approach for the efficient and adaptive classification of 3D Objects. This reduces the required number of manually annotated training units and leads to a substantially improved classification performance. The SPENCER consortium breaks new ground for using mobile robots in extremely challenging highly dynamic environments like an airport.

<http://www.spencer.eu>

## Death Timer developed

Sceneries from the television series „Game of Thrones“ (GoT) inspired a TUM Informatics course (Chair for Bioinformatics) to choose an extraordinary topic of the final paper. The students developed applications that scan the internet for data about Games of Thrones and prepare figures. On their website the students present the results of the calculations, e. g. which character from the series will probably die first in the upcoming sixth season.

[www.in.tum.de/death](http://www.in.tum.de/death)

## Georges Giralt Award in Robotics

Alexander Dietrich (Chair of Sensor-Based Robotic Systems and Intelligent Assistance Systems) is one of the two 2016 Georges Giralt PhD Award winners in robotics, awarded at the European Robotics Forum in Ljubljana (Slovenia).

Introducing mobile humanoid robots into human environments requires the systems to realize soft physical contacts. Dietrich's dissertation „Whole-Body Impedance Control of Wheeled Humanoid Robots“ presents a whole-body robot controller for dexterous physical interaction. The approach enables the robot to perform several control tasks at the same time while following a given order of priority.

[www.in.tum.de/Giralt\\_Award](http://www.in.tum.de/Giralt_Award)

## „BSB Navigator“: App Available

Chair for Applied Software Engineering: App for Indoor-Navigation at the Bayerische Staatsbibliothek (BSB, Bavarian State Library)  
[www.in.tum.de/BSB\\_Nav](http://www.in.tum.de/BSB_Nav)



Photo: R. Heiningger

## Help for Refugees:

Chair for Software & Systems Engineering: Campaign day for refugees, Deutsches Museum München

## Chair for Information Systems:

Campaign day for refugees within the Bachelor practical training „IT-basiertes Lernen gestalten“  
[www.in.tum.de/Praktikum](http://www.in.tum.de/Praktikum)

## International Affairs/Student Advisors:

The student advisors supervise 30 refugees, who participate as guest students in the summer term 2016.

[www.in.tum.de/guest\\_students](http://www.in.tum.de/guest_students)

## Events 2016:

9. May, 16.00 - 17.30 h:

Talk Digitalisierung: mehr als Technologie  
Prof. Dr. Siegfried Russwurm,  
CTO, Member of the Managing Board of Siemens AG  
[www.in.tum.de/Russwurm](http://www.in.tum.de/Russwurm)

1. June:

Joint International Day, Departments of Informatics, Mathematics, Physics  
[www.in.tum.de/internationalday](http://www.in.tum.de/internationalday)

To register for the Newsletter, please visit: [www.in.tum.de/newsletter](http://www.in.tum.de/newsletter)

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