



# in.tum.quarterly

For students and employees of the TUM Department of Informatics

Issue 2018/02

## Integreat is Finalist

Tür an Tür - Digital Factory gGmbH, a non-profit startup from Augsburg, is finalist of the „Google.org Impact Challenge“ and wins 250.000 €. From the start, Integreat has been associated with TU München and supported in particular by Prof. Helmut Krcmar, Chair for Information Systems. He suggested as early as in the planning phase of the project to not only develop a mobile app for Augsburg, but one that can scale for the whole country.

## Google Faculty Research Awards

The research Teams of Prof. Matthias Nießner (Visual Computing Group) and Dr. Federico Tombari/Prof. Nassir Navab (Chair for Computer Aided Medical Procedures & Augmented Reality) were each awarded a Google Faculty Research Award 2017 (Category „Machine Perception“). The Prof. Nießner Team successfully applied with the topic „Photo-realistic Avatars from Videos: Free Viewpoint Animation of Human Faces & Hair in Mixed Reality“. The award-winning topic of the Dr. Tombari/Prof. Navab Team was „3D Captioning: 3D Scene Understanding für Mobile Assistive Technology“. Prof. Michael Bronstein, Università della Svizzera italiana, whose research at TUM is supported by an IAS Rudolf Diesel Fellowship (TUM host: Prof. Daniel Cremers, Chair for Computer Vision & Artificial Intelligence), was also honored with the Google Faculty Research Award 2017 for his work on Geometric Deep Learning. [www.in.tum.de/180202](http://www.in.tum.de/180202)



Prof. M. Nießner  
Photo: Angela Dai



Dr. F. Tombari

## Intercultural Certificate for Mobility or Integration

The Mobility Certificate is tailored to German-speaking students coming from within the German educational system and planning a stay abroad during their IN.TUM studies. The Integration Certificate is intended for our international degree students (those coming from outside the German educational system). Further infos about components and content at [www.in.tum.de/en/intercultural-certificate](http://www.in.tum.de/en/intercultural-certificate)

## EU Funding for Computer Scientists

The European Research Council (ERC) awards its annual grants in different categories. The Advanced Grants are reserved for established scientists with an excellent track record of outstanding achievements over the past ten years. The value of each grant can be as high as 2.5 million euro. Recently Prof. Javier Esparza (Chair for Foundations of Software Reliability and Theoretical Computer Science, I 7) was awarded an Advanced Grant for developing new automatic verification methods for complex computer systems. [www.in.tum.de/180207](http://www.in.tum.de/180207)

## ESMERA Project

Beginning of 2018 the EU started to fund the ESMERA (European SMEs Robotics Applications) project in which the chair of Robotics, Artificial Intelligence and Embedded Systems is a core partner. ESMERA is a starting block for European Small and medium-sized enterprises (SMEs) designing and developing robotic solutions. To unlock the innovation potential of these SMEs, ESMERA promotes applied robotics technology developed for industrial challenges set by key European companies. Thereby the SMEs get a chance to realise new technologies that address real life problems and thus already have a market. ESMERA offers direct financial support to the solution-providing SMEs plus an environment for developing, evaluating, testing and demonstrating novel robotic technologies, alongside with nontechnical mentoring and support. [www.esmera-project.eu](http://www.esmera-project.eu)

## Public Lecture Series Digitalization

In summer term 2018 the Department of Informatics is again organizing a public lecture series Digitalization together with the Munich Center for Internet Research, the Zentrum Digitalisierung Bayern (Z.DB) and the Leibniz Supercomputing Centre. The Public is hereby cordially invited to attend. The lectures take place in room 5414.EG.001 at TUM, Lichtenbergstr. 4a, Garching on thursday, unless otherwise stated. [www.in.tum.de/180206](http://www.in.tum.de/180206)

## 2018/19: 220 Outgoings

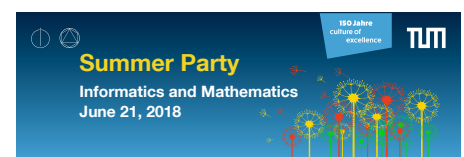
In the academic year 2018/19 TUM Informatics sends more than 220 students to study abroad at ERASMUS+ and TUMexchange partner universities, in particular educational nationals who study in German at TUM Informatics. Again this year is the Department of Informatics the most mobile Informatics Department in Germany. [www.in.tum.de/en/goabroad](http://www.in.tum.de/en/goabroad)

## Blockchain Research Cluster

The Blockchain Research Cluster is an interdisciplinary network of chairs and research groups at the Technical University of Munich, which investigate and further develop the technical, economic, legal and social aspects of blockchain-based solutions. Furthermore, the cluster organizes a monthly meeting for interested members of the Technical University of Munich as well as external guests to report on various topics (technologies, research results, applications). In addition, introductory events and lectures by guests take place. To be informed about future events and results, please subscribe to our newsletter, or join our Slack channel. [www.in.tum.de/180203](http://www.in.tum.de/180203)

## Cast/GI PhD Award 2018

On April 25, 2018 in Konstanz, the „Promotionspreis IT-Sicherheit“ was awarded for the eighth time. This prize, jointly presented by CAST e.V. and the Department of Security - Protection and Reliability of the Gesellschaft für Informatik e.V., honors outstanding dissertations in the field of IT security. Two finalists presented their work, which had previously been selected by the CAST/GI jury from all submissions. The winner of this years CAST/GI „Promotionspreis IT-Sicherheit“ is Dr. Sebastian Banescu (I 4 - Chair of Software and Systems Engineering) for his work on „Characterizing the Strength of Software Obfuscation Against Automated Attacks“. [www.in.tum.de/180204](http://www.in.tum.de/180204)



## Events 2018:

- 13.07.: 60th Birthday Celebration of Prof. Seidl
- 20.07.: Scientific Colloquium/60th Birthday Prof. Nipkow
- 13.10.: Open Doors
- 26.10.: Opening Event Munich School of Robotics & Machine Intelligence
- 16.-18.11.: Hackathon „hackaTUM“
- 07.12.: Day of Informatics/Graduation Ceremony

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

You're welcome to send feedback, suggestions or critique to: [newsletter@in.tum.de](mailto:newsletter@in.tum.de). The newsletter is published twice per semester.

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