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For students and employees of the Department of Informatics

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Honorary Doctorate for Prof. Orna Grumberg



From left: Prof. H. Seidl, Prof. O. Grumberg, Prof. J. Esparza
Photo credit: Thorsten Jochim

Orna Grumberg is a pioneer of model checking, a technique for automatically finding bugs in programs or proving their correctness. Early model-checking techniques only worked for very small programs. She developed the first algorithms to automatically find a small program (called the “abstraction”) that satisfies the property to be verified and simulates the initial, large program. In particular, Mrs. Grumberg and her co-authors developed “counterexample-based abstraction refinement,” or CEGAR, a technique for the automatic computation of increasingly detailed models of a program. “Orna’s ideas have been crucial for making model-checking applicable to large hardware and software systems,” says Prof. Javier Esparza, presenter of the award.



O. Grumberg and TUM President Prof. W. Herrmann
Photo credit: Thorsten Jochim

Since 2003 Orna has been co-director of the Marktoberdorf Summer School, an international event for PhD and Master students on software engineering and formal methods. The other co-director is always a member of the TUM-Department, and this year it is Prof. Tobias Nipkow. “I am very happy that the Department accepted the proposal to award Orna a honorary doctorate,” Esparza said. “She is a great scientist and a great person. You should see her dance!”

www.in.tum.de/2017021

Community Mirror

Who is where, who is what? What is Heise reporting? Interesting content from the Department of Informatics, the LMU, and the Bundeswehr university can now be found on the touch screen operated Community Mirror in the Magistrale. The project is a joint initiative of Prof. Michael

Koch and Sebastian Pohle from the Bundeswehr University, created for the occasion of the 50 Years of Informatics in Munich jubilee.

Informatics Game “Bitschubser”

On the occasion of the 50 Years of Informatics in Munich jubilee, the informatics instructional game “Bitschubser,” developed in cooperation with students, is being released. Players can get to know the basics of programming in a fun way and in a pleasant environment. The goal is to have the full game finished and to allow students to develop it further.

www.in.tum.de/2017028

Lecture Series „Digitalization“

The Chair for Software Engineering is organizing a public lecture series on the topic of “Digitalization,” in which the topic will be considered from various contrasting perspectives. Lectures take place every Tuesday, at 18:00 in HS 2. Note: all lectures will be in German.

www.in.tum.de/2017022

New Facebook Page for IFF

The Informatik-Forum Frauen (IFF) has a new Facebook page for IFF announcements. On this new page “Women in Computer Science at TUM,” information will be published on IFF events, interesting opportunities, and achievements in the community. Follow or like the page to stay up to date.

www.in.tum.de/2017023

New MOOC Software Engineering Essentials

The Chair for Applied Software Engineering offers a new massive open online course (MOOC) on the edX platform. The course Software Engineering Essentials is offered completely online for students from around the globe. In interactive videos and online exercises, students learn the basics about object-oriented software development, modeling, project management and patterns.

www.in.tum.de/2017024

Find Free Computer Rooms Easily with IRIS

The RBG-maintained computer rooms “CIP Pool Bode” (01.04.011), “CIP Pool Seidl” (02.07.038), “MA-Computer Room” (00.07.037), and the “ICafe” (00.08.057) are now a part of the Interactive Room Information System IRIS. IRIS touchscreens located in these rooms allow students to mark the rooms as occupied when they need them for studying or working. This information travels back to TUMonline into the room-booking system, where the occupation status is displayed on a website. This makes it easier for students to find a free computer room in the FMI Building.

www.in.tum.de/2017025

New Academic Advisor and Department Appointee for Disabled Students



Sibylle Roden-Kinghorst has replaced Vivija Simic as academic advisor and Department appointee for chronically ill and disabled students. Ms. Roden-Kinghorst is ready to give advice and assistance as needed, like with applications for disadvantage compensation, and will

keep information shared with her confidential. She will also gladly answer questions from lecturers about barrier-free education.

www.in.tum.de/2017026_engl

Continuing Education for Teachers with Skill-Driven Learning and Teaching

With the program Skill-Driven Learning and Teaching conceptualized by Dr. Matthias Utesch, the Department of Informatics has begun a continuing education program for teachers in the context of the school-university interface with the goal of providing educators with methods and materials designed to strengthen students’ scholastic aptitude for the long run. The one-year pilot phase began on April 6, 2017 with four teacher tandems.

www.in.tum.de/2017027 (in German)

Events:

31. May: International Day - Take part!

www.in.tum.de/2017029_engl

1. June: Women in CS @ TUM Spring Event

18:00 at Campus Garching

www.in.tum.de/20170210

13. July: Department’s Summer Party

TUMexchange Infoevents (in German)

Learn about studying abroad outside of Europe: *North America, Oceania, Israel, Africa*

Tue. 20. June, 18:00-20:30, MI HS 01

Asia and Russia

Tue. 27. June, 18:00-20:30, MI HS 01

Latin America

Tue. 11. July, 12:00-14:15, MI HS 03

<http://www.in.tum.de/studyabroad>



Special edition of *Informatik-Spektrum* (Photo: Thorsten Jochim)