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Grand Opening of 'Dresden 5G Lab' on 24 September

On 24 September, the Grand Opening of the new cfaed initiative 'Dresden 5GLab' will take place in the Entrance Hall of the Computer Science Department Building at Technische Universität Dresden (TUD), Nöthnitzer Straße 46.

Within the 5GLab, 20 TUD professors have started to collaborate in an interdisciplinary team with more than 500 scientists to advance the research concerning the key technologies for the 5th generation of mobile communications and its applications. Professor Gerhard Fettweis, coordinator of the Center for Advancing Electronics Dresden (cfaed), is also the initiator of the new project. "A key feature of the next wireless technology will be a short latency that will profoundly change many areas of society, by making the Tactile Internet possible" he explains. Parts of the vision of the Tactile Internet are e.g., better traffic assistance systems, robotic-aided tele-surgery, as well as new learning and trainings methods with special tactile-to-visual feedback.

"There will be four research tracks which address the whole value chain: from the semiconductor chips, over wireless data transmission and the core elements of network infrastructure, then the mobile edge cloud, and finally Tactile Internet applications", Fettweis says. "Technological requirements are: massive reduction in latency, massive throughput, massive sensing, massive resilience, massive safety and security, as well as massive fractal heterogeneity of every element." The Cluster of Excellence "cfaed" will particularly support the new 5G research platform with its three systems- oriented research paths for enabling the mobile edge cloud - Orchestration, Resilience, and Highly-Adaptive Energy-Efficient Computing (HAEC).

The industry appreciates the competences of Dresden's researchers. The international communication companies 'Vodafone' and 'National Instruments' are already committed to support the research activities of the new 'Dresden 5G Lab'.

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concept**
Exzellenz aus
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Program *Wednesday, 24 September 2014*

14:00 Press talk with demo presentation robotics, e.g. "Tactile Glove" (suitable for photo + video media, more details on request)

16:00 Registration

16:30 Welcome Address Prof. Hans Müller-Steinhagen, Rector, TU Dresden

16:40 Dresden 5G Lab – Mission and Vision

16:50 Four Selected Short Presentations on Focus Areas

17:30 Podium Discussion with External Supporters

17:55 Opening Ceremony

18:00 Inspiration Session and Networking

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