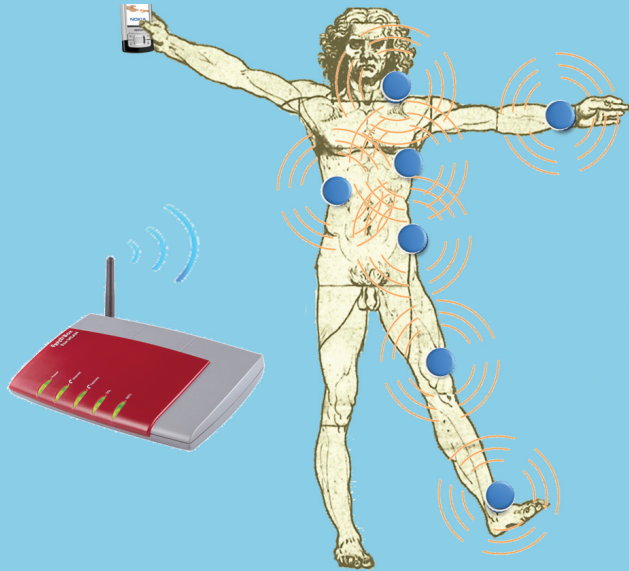


Smart Building and Smart Living luxury or standard?



tubs.CITY

tubs. CITY, the Center for Informatics and Information Technology at the Technical University of Braunschweig was founded by 28 faculty members of computer science, electrical engineering and coordinate their research activities.

The 3rd annual symposium of the tubs.CITY will highlight the opportunities and challenges when Smart Buildings and Smart Homes act in concert.

In the morning, which will be held in the innovative office environment of the **future workspace** (www.igs.bau.tu-bs.de/_forschung/_futureworkspace/frameset.htm at Mühlenpfordstraße, 9th floor), renowned experts will discuss Smart Buildings and their embedding in the energy grid, followed by an overview on new developments of IT platforms that enable an efficient combination of building management and home networks.

The afternoon will be organized in the House of Science (**Haus der Wissenschaft**, www.hausderwissenschaft.org) and cover Smart Home developments. This part of the symposium is jointly organized with BITZ, a TUBS Center that focuses on Informatics in medicine and biology. Again, renowned experts will give insights into the state of the art and current work.

Partner:
<http://www.bitz.it>



Symposium Organizers

Rolf Dr.-Ing. Rolf Ernst
tubs.CITY

Session Organizers

tubs.CITY

For room reservation please contact us at
city@tu-bs.de

Registration

All participants, except for invited speakers, register at
city@tu-bs.de

There is a small fee to cover the workshop expenses:
100 €

Contact

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Smart Building meets Smart Home

3rd tubs.CITY Symposium

June 23, 2011

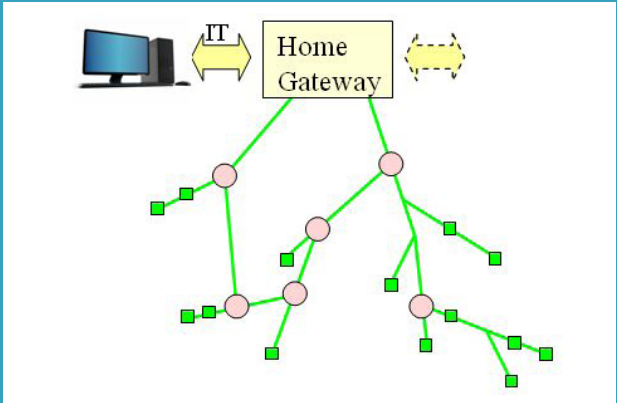
Braunschweig

<http://city.tu-bs.de>

Smart Building meets Smart Home

While Information Technology (IT) is shaping our “knowledge society”, important parts of our daily life have hardly been impacted. Except for infotainment and a few control units in appliances, our homes and buildings have hardly profited from IT development. Yet, societal challenges need progress in this area. Buildings which are still responsible for a large part of the overall energy consumption, could become more power efficient and could be used to balance the varying supply of renewable energy. Home environments could help improving life in an aging society, including health and care support. When coupled, both domains could greatly benefit from each other.

The societal impact of these developments depends on their broad introduction. This requires that technology moves from large office buildings and few high-cost homes to the low cost average household. Only then new services become economically viable and the effect on energy consumption and control will become visible.



There are many aspects of efficiency, cost, privacy, training, and maintenance, and the key controversial question who would pay for introduction and operation. The symposium will close with a panel (in German) that will discuss these issues. Because of the general interest, the panel will be open to the public.

Program

The symposium starts on Thursday morning and ends in the evening with a Panel Discussion and snacks.

Speakers

9:00 Opening at Future Workspace

Session 1: Smart Buildings and Energy

09:15 Optimization of Buildings –Demand follows supply in electricity grids - why and how?

Prof. Dr. Michael Sonnenschein, OFFIS Institute for Information Technology, Oldenburg

09:45 Optimization of lokal Grids –Management and control of energy streams in Smart Grids

Prof. Dr. ir. Gerard Smit, University of Twente, The Netherlands

10:15 Smart Home – Concepts for an Integrated Energy Management

Prof. Dr. H. Schmeck, Karlsruher Institut für Technologie

10:45 Cost and Value of Locally Generated Photovoltaic Energy Potential of Consumption Control and Storage of Photovoltaic Energy

Dr.-Ing. Johannes Kneip, Centrosolar Group AG

11:15 Coffee break

Session 2: Smart Building Integration

11:45 Energy Efficient Campus – „Building as Power Plant – Smart Homes as integral part of the energy system“

Prof Dr.-Ing. M. Norbert Fisch,TU Braunschweig

12:15 The Smart Home Platform –Towards an Integrated Platform for Smart Buildings

Prof. Dr.-Ing. Rolf Ernst, TU Braunschweig

12:45 Security of integrated networks – A Secure Management Framework for SCADA Networks

Dr. Prevelakis, Aegis Research Center, Greece

13:15 Lunch in the Mensa

14:15 Opening at House of Science (5. Floor)

Session 3: Smart Homes for Ambient Assisted Living

14:30 Technologies for HealthCare and Assisted Living
Prof. Dr.-Ing. Klaus Müller-Glaser, Karlsruher Institut für Technologie

15:00 Using Sensor Networks for Ambient Assisted Living
Prof. Dr. Sándor Fekete, TU Braunschweig

15:30 On Health-enabling Technologies for Home-centered Health Care

Prof. Dr. R. Haux, MH Hannover & TU Braunschweig

16:00 Assistance Systems at Home for Geriatric Patients
Prof. Dr. Med. E.Steinhausen-Thiessen, Charité Berlin

16:30 Coffee break

Panel Discussion:

Smart Building and Smart Living - luxury or standard?

17:00 Discussion with following participants:
Dr.-Ing. Johannes Kneip, Centrosolar Group AG
Prof. Dr. med. Elisabeth Steinhagen-Thiessen, Charité Berlin
Prof. Dr.-Ing. M. Norbert Fisch, TU Braunschweig
Prof. Dr.-Ing. Rolf Ernst, TU Braunschweig
Delia Balzer, LINGA
Rüdiger Warnke, Nibelungen-Wohnbau GmbH
Dr. Mike Plischke, BITZ

18:30 Reception and the End of the tubs.CITY Symposiums (1. Floor)

[Link auf 2. Flyer](#)

