

Institut

Forschung

Zielformulierung

Publikationen

Projekte

Projektservers

Kooperationen

Konferenzen

Workshops

Lehre

Mitarbeiter

Presse und Jobs

Intranet

Sitemap

Fakultät IEF

Institute der Elektrotechnik

Projekte

Startseite » Forschung » Projekte » Archiv » WiLoc - Appliance Localization in Large Office Spaces

Titel

WiLoc - Appliance Localization in Large Office Spaces

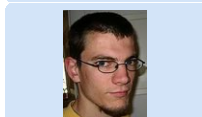
Kurzbeschreibung

Motivation: Nowadays, large office buildings consist of thousands of various electrical components, such as switches, light sources, window blinds, smoke detectors, thermometers, etc. In a rather traditional setup, most of these components are directly connected to each other. A switch, for example, switches on or off the light source(s) to which it is directly connected. This approach, however, does not accommodate for changes in the configuration very well. A few new walls, for example, might request a new switch-light-source configuration. But changes in the wire configuration can induce high costs, particularly in large rooms with high ceilings. Because of this flexibility problems, research on building automation abandons the traditional, direct wiring. Rather, it employs an appropriate infrastructure, which consists of one or more central servers as well as a communication network. The approach requires the localization of these devices. In order to prevent this task from routine errors, this project explores one semi-automatic indoor localization approach, which is based on intelligent devices, two Wii remote controls, and an electrical compass.

Bearbeiter



Dipl.-Ing. Ralf Warmuth



Dipl.-Ing. Stefan Goldmann



Prof. Dr.-Ing. habil. Ralf Salomon

E-Mail

Tel.: +49 381 498 7260

Fax: +49 381 498 118 7251

Raum: W1206

Veröffentlichungen

Warmuth, R., Goldmann, S., Salomon, R. WiLoc: a Step Towards Efficient Device Identification in Large Office Buildings by Wii-Based Localization. In *Proceedings of the 15th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA 2010)*, 2010.

Links

Link zur Projektseite - <http://www.amd.e-technik.uni-rostock.de/ma/rs/projects/willoc.html>

Suchbegriff...



Mitarbersuche...



Kontakt

Fakultät für Informatik und
Elektrotechnik
Institut für Angewandte
Mikroelektronik und Datentechnik
Haus 1, Raum 1207 (Sekretariat)
Richard Wagner Str. 31
18 119 Rostock-Waremünde
Telefon: +49 381 498 72 51
Fax: +49 381 498-118 72 51

Schnelleinstieg

[Publikationen](#)

[Anfahrt](#)

[Kontakt](#)

[Laborpraktikum](#)

[Lehrangebot](#)

[Highlights](#)

[Projekte](#)