

Laboratory / Center profile

Ubiquitous Communication Laboratory <http://haruyama.sdm.keio.ac.jp/ubiquitous/> (in Japanese)

Representative: Professor Shinichiro Haruyama

Purpose

The Ubiquitous Communication Laboratory pursues a society where people can understand each other by communicating whenever and wherever they want (i.e., ubiquitously), a society where anybody can live safely and soundly, and a society where new services can blossom. More specifically, we organize weekly seminars to exchange ideas and opinions with companies and organizations, exploring how to realize such a society. Our research covers a wide range of topics, such as ways to support people with disabilities, safe automobile driving, location detection using visible light and its standardization.



Members of the Ubiquitous Communications Laboratory

Examples of Our Activities

- Research and development of systems that enable people with visual impairment to travel safely indoors and outdoors
- Research and development of information communications systems for the elderly with hearing impairment
- Research on methods of supporting self-motivated career development for people with development disabilities
- Research and development of indoor navigation using visible light communication and its institutional arrangement
- Proposal of visible light communication to the Japan Electronics and Information Technology Industries Association (JEITA) for a Japanese standard and to the International Electrotechnical Commission (IEC) for a global standard
- Research and development of safe driving support for automobiles using visible light communication, wireless communication and image processing technology
- Development of tools for improving golf swings
- Exploration of the expansion of apparel markets using WEB
- Development of new content use with digital watermarking technology
- Development of robot systems as a preparation for the architecture sector of the ET Robot Contest 2013



Developing a robot system for the ET Robot Contest 2013



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