

# 第37回GRL浜松セミナー

～若手研究者のための光・電子・情報科学に関する情報交換～

**Wireless Networks and its Role in Achieving a  
Smart Community: A Study of Co-relation between Soya  
Regions of Hokkaido and the Himalaya Regions of Nepal**

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We witnessed that research in the area of enhancing of communities in Himalayan regions has been carried out in various times and the process of which is continuously advancing. However, there is a lack of research in how this community can be enhanced in order to build a smart community. In order to proceed toward this goal, we have developed CWN (Community Wireless Networks) networks which are an affordable, robust, flexible, scalable and spreading in difficult diversity of land in Himalayan regions. Obviously, deployment of wireless network does not mean achieving of a smart community immediately. However, it is one of the most important infrastructures required in order to build a smart community network. In this research we have implemented a wireless networks in Himalaya regions in the rural village of Kaski District of Nepal over two-year period providing the community with Internet and related services as extra contribution. This deployment was possible due to our experience that we gain from the regional wireless networks of Soya regions. Furthermore, we have surveyed the feasibility study of smart community in these regions. In this research we would like to do feasibility study of building a smart community in Soya regions and try to find the correlation between these localities so as to utilize the lesson learned from Soya regions of Hokkaido to Himalayan regions of Nepal.

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