

PEM021-14

Room: Function Room A

Time: May 24 14:00-14:15

Multipurpose High Sensitivity Network Camera for Global Environment Monitoring

Minoru Kubota^{1*}, Tsutomu Nagatsuma¹, Ken T. Murata¹, Yasuhiro Murayama¹

¹NICT

We have developed a multipurpose high sensitivity network camera system using the commercially available single-lens reflex digital camera. This system has following functions,

- Nikon D700 or D90 can be controlled.
- Capturing at regular intervals is possible.
- All images are saved with tree kind of resolutions (high, mid, low). Image format is JPEG or TIFF.
- Obtained imagers can be sent to a FTP server in real time.
- Two types of observation modes are available. These modes are switched according to a schedule file.

We are planning to provide the operation software for free to researchers who want them, and expect that these systems will be effectively used for a various global environment monitoring, such as aurora, low-latitude aurora, NLC, and some other purpose.

In this presentation, we will introduce details about our high sensitivity network camera system, and discuss some ideas of global environment monitoring using this system.

Keywords: Network camera, Web cam, Global Environment Monitoring, NLC, aurora, low-latitude aurora