

Title: Experimental Laboratory Testbed for Mobile Robot Applications over IP Networks

Abstract

This poster presents the experimental laboratory testbed for research in mobile robot applications over IP/MPLS (*Multiprotocol Label Switching*) that is being developed in the context of Kyatera Project at UNESP (University of São Paulo State - Brazil). In our lab at UNESP, that are connected to other labs of Kyatera network, we are implementing a GMPLS platform using an open source software from NSF (National Science Foundation) named DRAGON as a basis and adding new functionalities to real time control of mobile robots via IP/MPLS networks. Kyatera network was created to develop science, technologies and applications of future Internet. The roadmap of our project includes concepts of autonomic communications, required for the future Internet.

References:

Kyatera project:

http://kyatera.incubadora.fapesp.br/portal/kyatera-1/view?set_language=en

Dragon (Dynamic Resource Allocation via GMPLS Optical Networks)

<http://dragon.maxgigapop.net/twiki/bin/view/DRAGON/WebHome>