ALBEANU, Grigore; ȚARCĂ, Cătălin Radu; POPENȚIU-VLĂDICESCU, Florin; PASC, Ildiko, *INTERFACING A ROBOT CONTROL APPLICATION WITH A REMOTE USER*

Abstract: Mechatronics is an important field of science and technology providing a large spectrum of applications, being also an important educational discipline for engineers. Engineering education has special requirements, and the development of remote laboratories will be efficient not only considering costs of educational resources, but also offering simultaneously access to advanced technology. This paper describes recent developments in web-based tele-operation of robots. Different architectures offering remote interactivity were identified and a comparison is presented. Details on interfacing a Mitsubishi industrial robot with a remote user are presented in the framework of remote collaborative research and distance education in robotics.

Keywords: remote robotics, client-server, remote laboratories, engineering distance education, Mitsubishi industrial robot control and programming