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Author DE-YUAN TSAI
Author's Email Address No Public.
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Abstract
In the 21st century, there is a growing need to develop some significant and interesting Internet-based applications. In this thesis, we present the design and implementation of an unmanned laboratory on the Internet in order to enhance the effectiveness of traditional laboratory. In the network system, the databases in the server are used to store some relative information of the users and the experiment. Also, the user can execute remote control commands via the access of databases by applying ADO object and ASP techniques. And then using the Microsoft Windows Media Technologies develops the remote real-time image broadcasting. To verify the proposed system, a web-based remote control experiment of step motor and dc motor is performed. The experiment platform contains a web camera, some sensors, and some driving circuits. Furthermore, the PC-based control employing 8255 I/O card is used to control the experiment platform. Once the user login the presented system, his possible execution time and priority will be under control of the network server system. With the implementing of the proposed system, we do hope to find feasible solutions for the problems that traditional laboratories have faced in time limit, security, and management cost, so that we can broaden the horizons of education regarding experiment.
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