



Diseño e implementación de una red domótica para un laboratorio de ingeniería electrónica [

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Analítica

the increase of users -students and teachers- in the laboratories of the Escuela Colombiana de Ingeniería Julio Garavito in the last time, has congested the access to those laboratories. The proposal formulated by the research group Ectrónica seeks to take advantage of a electric distribution net in the campus in order to create a domotic net that offers access facilities, control of the equipments of the laboratory, saving of energy and improvement of the quality of service for the students. The research group applied the Power Line Communications technology (PLC) and explored better alternatives of digital modulation, codification and detection of mistakes, connect, protocols of transmission of information and new applications, all that was based on the estimation of the channel (spread electric) like conduit. This project facilitates the development of research skills of teachers and students. The research meant an advance in the application of new technologies of communications for the solution of a need of the program of Electronics Engineering of the ECI. In this paper we present the concepts and basic beginning of the system of transmis- sion of information across the electrical net of low tension of the laboratory of electronics in the campus

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