



innovations report

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The UGR creates a heat model to study temperature control in closed spaces

10.11.2006

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A practical teaching experience of real-time control of a heat model, using the Simulin-Matlab environment, is the result of a teaching innovation project, coordinated by teacher Olivares Ruiz, of Systems and Automatic Computing.

Patrick Walaschewski, student of the German University of Dortmund, and the teachers of the Dpt. of Computer Architecture y Technology of the University of Granada Miguel Damas Hermoso, Ignacio Rojas Ruiz, Francisco Gómez Mula, Héctor Palomares Cintas, Moisés Salmerón Campos and Francisco Pelayo Valle take part in the project, passed by the Vice-Rectorate for Planning, Quality and Academic Evaluation of the UGR [<http://www.ugr.es>].

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According to the persons in charge of the project, "from a model depicting a room of a house on a small scale different control techniques have been implemented to regulate the internal temperature with the contribution of a heat source (scale simulation of a climatic control system of a house)".

This experience, although it was different in many aspects, was started some years ago without using the currently available tools. A different model was used then (a hydraulic model) with data acquisition cards and software (without simulators); the transference function and control tests were validated.

According to the persons responsible for the project, "the general goal is to prove that how a theoretical model of a

heat process can be carried out and verify it experimentally, comparing its theoretical and experimental behaviour under classic control systems PID and fuzzy".

At the same time, the student will be able, with this experience, to check by himself the validity of the theoretical assumptions, as well as using the main tools currently used in the control of industrial processes.

Antonio Marín Ruiz | Quelle: alphagalileo

Weitere Informationen: www.ugr.es

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