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## **INVESTIGATION ON THE HEATING SYSTEM OF THE MECHATRONICS RESEARCH CENTER BUILDING USING OLAP TECHNOLOGY**

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### **Abstract**

At the University of Debrecen, the Department of Electrical Engineering and Mechatronics operates in the Building Mechatronics Research Center, where researchers took the initial steps of constructing an intelligent and sustainable building, which involved the configuring of the research infrastructure and the measurement network. In this article, we present a possible application and several advantages of the developed measurement network, which are principally conducive to monitoring the energy consumption of the building to achieve energy efficiency.

*Key words:* data evaluation, heating system, intelligent building, OLAP

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