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library management



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# Computer Vision-Based Library Management System

Qingkui Xi , Qian Zhang, Wenliang Hu & Wen Xin

Pages 172-182 | Published online: 18 May 2016

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The article presents a library management system composed of several surveillance cameras and a personal computer (PC). The system can secure a computer room against theft and detect fire in a stack room. Based on computer vision and database technology, this article proposes a library management system comprising several surveillance cameras, a PC, and software (written in C++). The system can continually capture and analyze images to determine whether people are present in the images. The system stores the analysis results in a database. These results are used for various applications. Computer vision technology can be used for safeguarding a library. There are many surveillance cameras in most university libraries, and the C++ language is popular. Thus, the system can be adopted in libraries for providing a safe environment. In technology, the system cannot be used to spy on what library materials library users are reading. This system helps librarians and increases the level of automated library

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