

Application of deep learning in fall behavior recognition for the elderly

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Abstract: In the context of an increasingly aging population, developing an automatic fall behavior recognition system is an urgent issue. This project aims to use deep learning methods to build a system capable of early detection of signs before elderly people fall, thereby improving the quality of life and safety for this vulnerable group. Through experiments on data collected from surveillance cameras, the project hopes to contribute a useful solution for managing and supporting elderly care.

Keywords: Deep learning, Behavior recognition, Elderly, Medical safety, Automated system