The Intelligent Animal Care and Management System Based on the Internet of Things

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Abstract

The Intelligent Animal Care and Management System Based on the Internet of Things is a comprehensive solution for monitoring and managing animals in a zoo environment. The system uses a range of sensors and an Arduino board to collect and analyze data on environmental conditions, animal behavior, and vital signs. The system includes automated mechanisms for cleaning and feeding animals, providing a safer and more consistent environment for animal care. The proposed system aims to improve the welfare of animals in zoos by providing continuous monitoring of their environment and health, and by automating some of the caretaking tasks. The system has the potential to revolutionize animal care and