

# IDENTIFICATION SYSTEM OF DECORATIVE PLANTS USING CONVOLUTIONAL NEURAL NETWORK METHOD

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## ABSTRACT

*A book is a written work consisting of a collection of pages bound together. Books can be divided into two main categories, namely fiction and non-fiction. Fiction books are written based on the imagination and thoughts of the author, while non-fiction books contain facts and events. The book genre is a division of certain classifications of several books that have the same background, theme, atmosphere, and storyline. By just looking at the cover without reading the entire storyline, it is very difficult to know the genre of the book. Some books even have special genres for mature readers or those who like special things. To categorize the genre of the book still requires human ability, namely by reading it and then understanding the storyline. Therefore, the purpose of this study is to detect the genre of books based on their cover, to make it easier for librarians to organize books according to their genre. This study uses Multi-Label Classification to detect book genres. And also this research uses the Convolutional Neural Network (CNN) method. From this research, the results obtained from the highest accuracy\_multi is 0.918053 or 91.81% of the CNN Densenet169 model.*

**Keywords:** *genre, book, Convolutional Neural Network (CNN), Multi-Label Classifications.*