

AUTOMATIC CLASSIFICATION OF FOSSILS AND INSECTS

Literature Survey

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1 Introduction

Swedish botanist Carolus Linnaeus, often referred to as the father of taxonomy, developed the system known today as Linnaean classification for the categorization of organisms based on morphology in the 18th century. Though taxonomy has come a long way since then and is now based on evolutionary relationships between organisms, identification by morphological traits is still very common. Qualitative descriptions of features coupled with subjective analysis of organisms can lead to erroneous classifications[1, p. 154] which emphasizes the need for a more quantitative approach. The goal of the project is to develop software which is capable of automatically identifying different species of butterflies using feature detection.

2 Methodology

3 Work Plan

References

[1] NATURE, *Vol 467*, 9 September 2010.