

## Data Clustering and Segmentation

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### **Abstract:**

The proposed project deals with the development of a new algorithm for adaptive clustering. Research's motivation starts from the necessity of systems classification during development and planning of development. The new proposed algorithm will be able to adapt to changing system

features and available system characteristics.

The research topic aims to find the techniques to analyse similarities in systems' description and investigate if algorithms based on similar projects improve estimation ability. Topic is focused on analysis and design of data segmentation methods and clustering approaches, then evaluates kernel functions for penalising data items in datasets (windows, weighted windows approach).

Goal of the topics is creating and implementing of mathematical models for selection feature subset from system characteristics.

### **Literature:**

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