

Warsaw University of Technology  
The Faculty of Electronics and Information Technology

Data Mining (EDAMI)  
Project Documentation

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# CLUSTERING BASED ON DENSITY

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## Project task

Implementation and experimental evaluation of DBSCAN [?] and DEN-CLUE [?] algorithms.

## Solution specification

### Data set

Set with information about geometrical properties of kernels belonging to three different varieties of wheat was chosen.

### Data set attribute information

To construct the data, seven geometric parameters of wheat kernels were measured:

- area A,
- perimeter P,
- compactness C,
- length of kernel,
- width of kernel,
- asymmetry coefficient
- length of kernel groove.